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GUILD OF PHYSICS
FUKSI GUIDE 2023



Guild of Physics Fuksi Guide 2023

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Editors-in-Chief: Severi Kasurinen, Saskia Pirttiniemi

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Table of Contents

- 2 Alpha & Omega
- 16 Fuksi Autumn in a Nutshell
- 24 Guild of Physics
- 39 Aalto
- 54 BIGs and Fuksi Groups
- 69 Teekkari Culture

For the Reader

You are holding the Guild of Physics Fuksi Guide 2023. Read it through carefully and with humor, since it contains important information regarding your first days at Aalto and gives a taste of what this year has in store for you. Please don't hesitate to contact your Captains if anything remains unclear after reading this guide.

TL; DR

There's a lot to unpack but each section is worth at least a quick glance. The beginning holds the most important things to consider before the school year starts. Here are the essential links:

- Orientation by the university: <https://www.aalto.fi/en/programmes/aalto-bachelors-programme-in-science-and-technology/starting-your-studies>
- Telegram info channel: t.me/fuksicaptains_bot
- TG groups: t.me/FKfuksit23 & t.me/FKquantum23
- Headstart Sat 26.8.: ilmo.fysikkokilta.fi/events/345

ALPHA & OMEGA

Read this section with great attention prior to the start of your university life.

Within the next pages you will find information about the program of your first week, as well as items that need to be checked out before the start of the semester!



Greetings from the Fuksi Captains

MEGA HYPE!

Congratulations and welcome to study Quantum Technology in Aalto University! You've found your way into an amazing student community and we are incredibly happy to have you join us.

We are Saskia and Severi, the Fuksi Captains of You and all the other fuksis in the Guild of Physics. Together with the BIGs and our BIG Coordinator Julia, we will make sure that your fuksi year is full of unforgettable moments and experiences. We will support you and stay by your side throughout the whole year as you navigate the whirlwind of studies and student life.

The fuksi year kicks off at the end of August with the Headstart and orientation week, when you will be introduced to your fellow fuksis, the Guild and the whole Aalto community. We have in store an incredible amount of events planned just for you fuksis, which we are looking forward to as well! Jump right in with an open mind and you'll be sure to get well on track with both your studies and student life!

Starting university and moving to a whole new environment is very exciting. Right after the orientation week will begin the first physics, mathematics and programming courses start and life can feel very hectic! In the middle of all hustle and changes, please remember that you are not alone. Your fellow fuksis are in the same position and we older students are not that far either. So there are sure to be understanding and friendly faces all around you. faces. It's important to learn to work together also



on course assignments, since university studies are not meant to be carried out alone. Together studying is easier, more efficient and more fun! The first year courses are planned so that you don't need to make any BIG decisions regarding your studies in the beginning. Just take it easy and see how you like what the university has to offer!

To balance out studies, Otaniemi is full of different people, events and associations. From this diverse bunch you are sure to find something you like to do and new lifelong friends. The closest community for you right from the start is our very own Guild of Physics! Few know other guild members beforehand but from our vibrant group you'll find like-minded company in no time. Together with your BIGs, we will make sure nobody gets left behind.





The Guild of Physics is home to all physicists and mathematicians. It gathers together all Quantum Technology and Engineering Physics and Mathematics students of Aalto, supervises their interests in the university and provides all kinds of fun leisure activities. The Guild organizes many easily accessible events from sports to career excursions, sitsit, and movie nights for example. For casual hanging out, playing Mario Kart and general chatter we also have our own guild room where everyone is welcome.

Our job as Fuksi Captains is to guide you throughout the year on your path to become Teekkaris, so that you may place a new and shiny Teekkari cap on your head if the possible Wappu dawns. But above all, we want you to thrive and enjoy your unique first year in academia. We

are here just for you, so if there is anything on your mind or you just want to chat, tap us on the shoulder or send a message. We help the best we can!

We are also looking forward to the autumn, but remember to enjoy the summer and relax. So will we. <3

See you at the Headstart!

Saskia and Severi
Fuksi Captains
fuksikapteeni@fysikkokilta.fi
Telegram: @saskiapirt @severikasurinen

If there's anything on your mind or you just want to chat, you can always send a message to your Captains. Even before your studies begin!

SAVE THE DATE: Headstart 26.8.

You can get to know your fellow fuksis, BIGs, and Captains before the orientation week at the Headstart! Arrive at the Alvari Square on Saturday 26.8. from 2 PM onwards and spend the evening with your new friends. You will recognise us by the natural white overalls and the Guild's tent with a greek letter phi on top. Prepare to spend the whole evening outside in good company!



Scan and sign up for the Headstart!

Registration is also found at ilmo.fysikkokilta.fi/events/345

Checklist

This checklist will help you in preparing for the autumn. Go through each point carefully!

Before the first week

- I enrolled as an attending student for the academic year at Aalto University.
- I joined AYY during the enrollment as an attending student at the university.
- I joined the Guild of Physics as a regular member at fyysikkokilta.fi/en/jaseneksi
- I paid the FSHS health care fee on the Kela website.
- I activated my Aalto user ID...
- ...and followed my Aalto email.
- I applied for an apartment from e.g. AYY and HOAS.
- I applied for Kela study grant and general housing allowance (if a Finnish citizen).
- I applied for a student card or downloaded the digital student card (Frank App).
- I downloaded the Telegram app...
- ...and joined the FK Fuksis '23 group...
- ...and the Captains' QT Hotline info channel.
- I signed up for the Headstart 26.8., QR code on the previous page.
- I read this guide thoroughly.

Telegram is a messaging app a lot like WhatsApp. It is the primary communication channel in Otaniemi. Download the app and join the FK Fuksis '23 and QT Fuksis '23 groups at t.me/FKfuksit23 and t.me/FKquantum23

On Monday 28.8.

- I arrived at the Undergraduate center with...
- ...an ID card...
- ...printed receipts or screenshots of the AYY and the Guild of Physics membership fees...
- ...money for lunch...
- ...plenty of warm clothes, a towel, and swimming and sauna gear for Kiljava...
- ...an open mind and cheery attitude!

At some point

- I downloaded the HSL app...
- ...and activated my student status there.

Orientation Week

In addition to the daily program by the university on orientation week, there are guild activities for each evening. Check out what we have planned for you below!

28.8. Kiljava

The first day culminates with the inauguration to the Guild of Physics, perhaps even considered mandatory, as we head to Kiljava right after the official program. We'll be spending the rest of the night there, so come prepared with warm clothes, swimming and sauna gear, and a fearless spirit!

29.8. FK x PT Mighty Adventure

On Tuesday afternoon you will get to discover Otaniemi together with the Association of Process Engineers in an adventure organized by BIGs. Get ready to dive right into the deep end!

30.8. Fun, games, and relaxing

On Wednesday, we will enjoy chill outdoor games, after which the Guild's own Committee of Leisure (Hottis) organizes a relaxing evening with a warm sauna. This day provides a great chance for recovering during the active week!

31.8. Otsuunnistus

Otsuunnistus is a checkpoint rally in Otaniemi. In it you will, with your fuksi group, accomplish many different tasks at checkpoints held by almost all organizations and clubs in Otaniemi.

1.9. SCIvaa and OtaFest

During the day there will be hanging out and games with all the guilds of School of Science (SCI). This is a great opportunity to have a peek at who else studies at SCI.

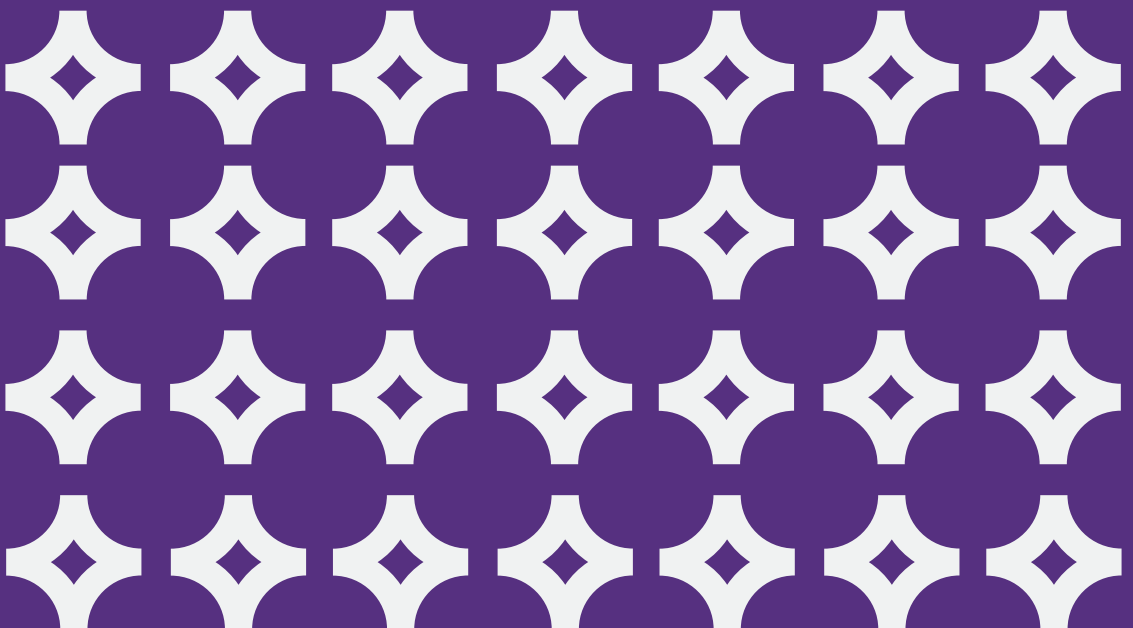
The week will culminate in the most hype orientation week party, the outdoor festival in Alvari Square! Before that we will have the Guild's pre-party from which we'll go to the main event together in style, by taxi!

NOTE! IT IS VERY IMPORTANT THAT YOU JOIN THE TELEGRAM GROUPS ALREADY DURING THE SUMMER!

We'll update the latest information about the Headstart and orientation week there.

ayy

Aalto University
Student Union



Greetings from Aalto University Student Union!

Welcome to Aalto University and its student union, AYY! Here at the Student Union we aim to ensure that you can truly experience the best student's life in the world here at Aalto. Our wish is that every student feels good and safe in our student community, and that every one of us receives all the help and support they need for the entire duration of their studies.

You are stepping into a world of endless opportunities. We urge you to be curious, try new things, to learn and most of all to enjoy your time at Aalto. Don't be afraid even though finding your own passion and place in the world might seem like a big task and never fear mistakes. We are here to support you with all of your problems.

See you around!

Mantė Žygelytė

Board Member (New Students,
Internationality and Equality)



What is AYY?

As a student of Aalto, Aalto University Student Union, AYY, is your student union. AYY brings together about 17,000 students of arts, design, business and technology. We work to ensure the well-being of all our members and we want to develop teaching at Aalto and the best student life in the world.

As a member of AYY, you are entitled to numerous student union services and student benefits both locally and throughout Finland. AYY offers several services for its members, such as affordable student housing, rental facilities, and advocacy. As a student of Aalto, you can also participate in activities and events organised by AYY and over 200 associations within the Student Union.

AYY in Figures

- **Around 17,000 members**
- **Approximately 200 organisations and associations**
- **Approximately 2,700 student apartments**
- **Nearly 50 employees**
- **10 full-time board members**
- **Approximately 500 volunteers**

Communication Channels

You can find comprehensive information about all AYY's services and opportunities at ayy.fi. We compile all current information concerning students in the weekly newsletter published by email on Mondays.



Aalto-yliopiston ylioppilaskunta - AYY
AYY Housing



@ayy_fi
@ayyhousing



AYY_FI



Student Union AYY



Aalto University Student Union AYY



AYY Info
AYY Events

Services

Student housing

AYY owns approximately 2,700 affordable student apartments in Helsinki and Espoo and offers a home for over 3,400 residents. All degree and exchange students who are members of AYY have the right to apply for AYY's housing. You can apply for housing as soon as your admission is confirmed by the university.

First-year students and students moving from outside the Helsinki metropolitan area are given priority in the allocation of housing. First-year students receive an additional score when they apply for AYY's shared apartment queues. To receive the score, students must apply for housing no later than in July or December, depending on when their studies begin.

You can browse and search for AYY's housing through the Domo system: domo.ayy.fi. As a student, you can also apply for housing from the Foundation for Student Housing in the Helsinki Region (HOAS).

Advocacy and interest representation

AYY represents students' interests and rights on university level and national level, making sure students are being heard in the society! You can take advantage of AYY's advocacy services, for example, if your

exam results are late or you may get in touch with an equity officer if you encounter any type of harassment. As a member of AYY, you can apply for administration as a student representative and influence the decisions made at the university.

AYY's highest decision-making body is the Representative Council (Rep-Co), which is elected by vote. In the elections, all AYY members can vote and run as candidates. The next Representative Council elections will be held this autumn. Members of the Representative Council decide on the goals and policies of the Student Union.

Student culture

Volunteering, association activities and diverse events are an essential part of Aalto student culture and the Aalto community. The highlights of the year include Wappu and Orientation week events, annual ball, Shrovetide celebrations and many other events.

In addition to the Student Union, events are organised by volunteers who work in sections and committees. AYY has five sections: Aava Community Section, Campus Section, Teekkari (Technical Student) Section, Museum Section and Advocacy Management Group (more commonly known as EduJory). The call for volunteers will open in late autumn. Information on the call will be published in AYY's communication channels.

In addition, AYY has more than 200 associations that organise activities in the fields of sports, music, games,

and other hobbies. New students are always welcome to join association activities, and AYY offers help, support, and advice for the establishment of associations and their activities. Keep an open mind for different opportunities and get to know the associations in upcoming events!

The Museum of Student Life has expanded its exhibition and activities to cover the student cultures of the entire Aalto community - technology, business and arts. In addition to engineering students' culture, the museum now also presents the history and present of KY - Aalto University Business Students and TOKYO, Students of Art, Design and Architecture. In addition, AYY's art collection will also be presented in the exhibition collections. The museum is located at Jämeräntäival 3A.

Rental facilities

In addition to housing, AYY has numerous saunas, event venues and recreational facilities that members can rent. Some facilities are free of charge. AYY also rents a van.

Scholarships and project grants

You can apply for a project grant from AYY or the TTE-Fund for a project organised by a group of friends or an association. You can also apply for scholarships awarded by AYY.

Student benefits

You will receive a digital or plastic student card to prove your student status (card delivered by Frank). By showing your student status, you are entitled to hundreds of benefits from 1 Aug onwards, including Kela, Matkahuolto and VR, as well as to student lunch discount in student restaurants. You are also entitled to student discount in public transport in the metropolitan area if you live in the HSL area and have updated your student status in your travel card at the HSL service point. You can find the list of all benefits and discounts available with the student card on Frank's website at frank.fi.

The digital student card Frank App is an official student ID, which you can download and activate starting on 1 Aug once you have enrolled for attendance at the university and paid AYY's membership fee. You can check the prices of other card options on Frank's website. You can also add an ISIC license to both digital and plastic student cards. More information on different student cards can be found on Frank's website at frank.fi.

Once you have received the plastic student card, please remember to pick up the academic year tag for your card from AYY's service point! At the same time, you can also pick up a free Design Notebook and a badge.



Studies 101

What is my bachelor's programme?

The Chemical Engineering, Computational Engineering, Data Science, Digital Systems and Design and Quantum Technology majors are all part of Aalto University's English-medium Aalto Bachelor's Programme in Science and Technology, jointly organised by all four Aalto schools of technology. The Chemical Engineering major is run by the School of Chemical Engineering, Computational Engineering by the School of Engineering, Data Science major by the School of Science, Digital Systems and Design by the School of Electrical Engineering and finally, the Quantum Technology major is run jointly by the schools of Science and Electrical Engineering.

The contents of your studies depend on the major that you originally applied for and gained admission to. Students in all majors are required to complete a 65-credit core curriculum, referred to as basic studies, which focuses on mathematical and computational methods and provides students with a solid foundation in information technology skills. The degree programme also includes 65 credits of studies towards the major, 20–25 credits of studies towards the minor and 25–30 credits for electives. Once you have completed all these elements, you will be awarded a Bachelor of Science (Technology) degree worth 180 credits.

Orientation week

Your studies will begin with an orientation week, running from Monday 28 August to Friday 1 September 2023. Orientation week will give you additional information about your programme, Aalto University as an academic environment and student life on campus. Orientation week gives you a chance to get to know your new fellow students and the staff of the programme. You will be assigned to a tutoring group to help you get off to a good start with your studies. The orientation week schedule will be published at the latest in August on *Starting your studies* website where you can also find other helpful information concerning the start of your studies: aalto.fi/en/programmes/aalto-bachelors-programme-in-science-and-technology/starting-your-studies

Timetables of the academic year

The first courses will start on Monday, 4 September 2023. Teaching in the academic year 2023-2024 is divided into five seven-week periods. The final week of each period is an evaluation week reserved for the finalisation of coursework, presentation of course results and



evaluation of student performance with various methods. Classes may also be held during the final week. In addition to the evaluation weeks, additional evaluation periods will be organised outside the teaching periods.

The teaching periods and evaluation periods:

Autumn term 2023

Teaching and evaluation periods	Time	Week number
First evaluation period and orientation	28 Aug – 3 Sep 2023	35
Period I and evaluation week	4 Sep – 22 Oct 2023	36 – 42
Period II and evaluation week	23 Oct – 10 Dec 2023	43 – 49
Second evaluation period	11 – 17 Dec 2023	50

Spring term 2024

Teaching and evaluation periods	Time	Week number
Period III and evaluation week	8 Jan – 25 Feb 2024	2 – 8
Period IV and evaluation week	26 Feb – 21 Apr 2024	9 – 16
Period V: multimodal period in which diverse forms of teaching are implemented	22 Apr – 9 Jun 2024	17 – 23

Timetable

As a first-year student, or *fuksi* in Finnish, you will be provided with a model timetable (or recommended study schedule) covering the courses that you are recommended to take in the first academic year. You can find the timetable on the Student Guide of your programme before the start of the academic year: aalto.fi/en/programmes/aalto-bachelors-programme-in-science-and-technology/recommended-timetable If you follow the model timetable, you will earn the recommended number of credits (60 credits) in your first year. The first-year curriculum includes e.g. basic courses in programming, mathematics, an Introduction Course for Bachelor's students and language courses. You should be prepared to work hard and invest time in your studies, because studying at the university level is different from studying at upper secondary school and requires more independent work.

Course registration policy

You need to register for each course you want to take. This is done online using the Sisu system. During the orientation week you will be guided in creating your first study plan (HOPS) in Sisu and how to register for the courses you will have in the first teaching period. You will need to have a course selected on your study plan in Sisu to be able to register for it.

Each course is worth a specific number of credits, which will be entered into your student register when you have passed the course. By definition, 1 credit is equivalent to 26.7 hours of student work.

Completing courses

Course teaching methods vary and may include lectures, assignments and group exercises or projects. The

first lecture will cover all the practical matters needed to pass the course (registration, examination, assignment, study material, course completion), so you have good reason to be there! Though lecture attendance is usually not compulsory, it is definitely beneficial from a learning standpoint. Many courses have assignments, and in some cases they are compulsory. In other courses, you can do assigned work for extra credit to supplement the total points received on interim tests and the final examination. Whatever the case, maths exercises are always important, because they give you the opportunity to apply what you have learned in practice. In-class exercises in mathematics, called *laskarit*, include reviews of the subjects covered in the lectures. The exercises are often given out online in advance.

Aalto.fi

Aalto.fi, Aalto University website, is the main source of information on studies, university services and other matters related to your future alma mater. Through this site you can also follow Aalto news and current events information to students. You can access Aalto.fi here: aalto.fi/en

For each study programme, Aalto.fi site has its own Student Guide, including information about the curriculum, recommended schedules, planning studies, contact information for the programme staff and other useful information. You can find the Student Guide for Aalto Bachelor's Programme in Science and Technology here: aalto.fi/en/programmes/aalto-bachelors-programme-in-science-and-technology

Support and advice for studies

Studying at university requires more independent work than in high school or upper secondary school. As an adult, you are expected to learn how to find the information you need on your own. Fortunately, there are many sources of help available.

An *academic advisor* is assigned to every first-year student for the duration of their bachelor's studies, that is, the first three years. Advisors arrange both group and individual meetings with their students. Academic advisors belong to the university's research and teaching faculty, usually as professors, associate professors or university lecturers. Academic advising is a form of guidance aimed at developing the student's own initiative and goal-setting, and at giving students the chance to get to know at least one academic staff member a bit better. During first-year studies, academic advising is a part of the Introduction Course for Bachelor's Students.

You can always turn to *Student Services* if you are unsure about where to start or whom to ask about something. The coordinator and planning officer of the programme, as well as other student services staff will be happy to help. Student Services can assist you with matters involving:

- questions related to studies
- approval of your personal study plan (HOPS)
- graduating with a Bachelor or Master of Science (Technology) degree
- getting transcripts of records or certificates of student status
- registration for the academic year
- tuition-fee payments
- student exchange
- transfer of credits

In fact, Student Services can assist you with almost anything related to your studies, and if not, they can probably direct you to someone who can.

Student Services for all majors of the Aalto Bachelor's Programme in Science and Technology are in the Computer Science building, floor 1, corridor B. They can also be reached at bsc.tech@aalto.fi.

Student Service Point at the *School of Science* can help you with general matters, for instance receiving documents such as certificate of student status and official study transcript or getting help with enrolment. *Starting Point* can also help you with common issues. You can find the locations, contact details and opening hours for the Student Service Point of School of Science and for Starting Point here: aalto.fi/en/support-for-studying/contact-information-for-learning-services



Helpful Links

- Contact information: aalto.fi/en/programmes/aalto-bachelors-programme-in-science-and-technology/contact
- Aalto Bachelor's Programme in Science and Technology: aalto.fi/en/programmes/aalto-bachelors-programme-in-science-and-technology
- Curriculum: aalto.fi/en/programmes/aalto-bachelors-programme-in-science-and-technology/curriculum-2022-2024
- Aalto.fi: aalto.fi/en
- MyCourses: mycourses.aalto.fi
- Sisu: sisu-aalto.funidata.fi/student/login
- Examination archives: tenttiarkisto.fi

Student services will help you with all study-related things for the entire duration of your studies!

Health Care

The Finnish Student Health Service (FSHS, YTHS) provides the student health care services, which are available after paying the health care fee. From FSHS you will get help within the areas of general health, oral health and mental health.

Students enrolled as attending must independently pay the student health care fee to Kela. It is paid twice a year: the fall semester fee by the end of September and the spring semester fee by the end of January. Before the

year 2021, the fee was charged together with the student union membership fee.

Starting from 1.1.2021, international exchange students, postgraduate students, continuing education students and commissioned education students are not covered by the student health care of FSHS. Additional information can be found at yths.fi/en.

Harassment Contact Persons

Hi! We are Aada, Aapo, Heidi, Janette, and Severi, the Guild of Physics harassment contact persons. A harassment contact person can offer support, assistance, conversation channels, and measures to all guild members when needed. More information can be found from fysikkokilta.fi/en/hairintatillanneohje.

Any harassment situations can also be reported anonymously via the form found in the QR code below.



Aada Hakula @aaduzkeli, Aapo Harju @aapoharju, Heidi Lemmetty @lempiheidi, Janette Setälä @janettesetala, Severi Kasurinen @severikasurinen





Congratulations Fuksi!

Hello and welcome to your new studies also from Academic Engineers and Architects in Finland, TEK! We are the trade union for all academic engineers and architects, providing benefits and services to support our members, and lobbying for conditions that allow them to succeed.

As the TEK Student Liaisons, we represent TEK on the Otaniemi campus. Our job is to keep you connected to TEK, and to help make sure your student years are as amazing as possible, no matter your background.

Find out more about what we do at tek.fi/en, or join using the QR code link! TEK membership is free for students!

See you soon on campus!

Best regards,

Owain and Sara

owain.hopeaketo@tek.fi

telegram kvtykki

sara.siivola@tek.fi

telegram sarasiivola



FUKSI AUTUMN IN A NUTSHELL

Next, we'll briefly go through how your fuksi year begins. On the following pages you can read about e.g. courses and events available in the fall.



Five Tips from the Master of Academic Affairs

Hey! Congratulations on your acceptance and welcome to study Quantum Technology! I am the Master of Academic Affairs of the Guild of Physics for 2023, and I'm responsible for study-related matters and advocacy work on the behalf of our students.

Here are a few tips that have been important to me as well, both for starting my studies and for life in general. The tips are not in order of importance and as a student you will also need many other skills. You may want to come back to these tips in the autumn or later, when your studies really get underway.

1. Find your own learning pace and methods. When you start in university, your study curriculum may seem quite empty. However this is only an illusion, as attending only lectures or exercise sessions is rarely enough to keep up with your courses, let alone learn well. In reality, most of a student's work is done outside the official curriculum, and therefore it is crucial to schedule enough time for studying.

2. Study with others. Physics and mathematics courses are known to be challenging. Fortunately, many courses offer the opportunity to work with friends. This does not mean copying directly from someone else's answer, but discussing and reflecting together to understand things. Often explaining things out loud also helps to structure your own thoughts and even deepen your understanding. In addition, studying together is a good way to get to know your fellow students, especially at the beginning!

3. Remember life outside of studies. University is not only a place for obtaining a degree, but above all a place for growing up, seeking one's place in society and learning vital skills for life. Alongside studying, it is important to pay attention to your health and well-being. The university community offers a huge number of recreational opportunities to suit your interests. My own wisdom is to leave enough idle time in the schedule for relaxation, friends and exercise.

4. Forget perfection. The words perfectionism and ambition are things that can be associated with many studying in our majors. These are not bad or good in themselves, but something that you might recognize in yourself. My tip is to always prioritize real learning and own well-being over aiming for a perfect study record. Patience and faith in your own efforts will pay off, even if the difficult courses would not always go your way.



5. Know when to seek help. If you follow the previous tips, you'll certainly go a long way. However, there are always surprises in life: deadlines loom, a sudden life change happens, or you realize that you ended up taking too many responsibilities. You can always seek help from friends, university staff or elsewhere. The most important thing is to notice the need for help and have the courage to ask for it!

Finally, I want to encourage everyone to keep an open mind towards studies and student life. Many of you may not yet have a clear picture for your profession or future career. I can personally say that you have certainly come to the right place!

You can always contact me if you have any study-related questions so don't hesitate to ask. Now, for the final time, congratulations for your acceptance to Aalto University and hopefully we see each other in Otaniemi during the autumn!

I wish you a warm welcome!

Tommi Huhtinen
Master of Academic Affairs
opintovastaava@fyysikkokilta.fi
Telegram: @opintovastaava

Courses during the Fuksi Autumn

On this page you will find courses from the model curriculum of the fuksi autumn, which is divided into two periods: the period of each course can be found below the course titles.

Introduction to Quantum Technologies Period I-II

This is the very first course that is directly related to your major. You will learn the basic concepts about quantum physics as well as its technological applications. You will also strengthen your understanding of classical models of motion, fields, forces and waves.

Introduction to Industrial Engineering and Management Period I-II

This course will give you knowledge about companies and their management. You'll found an imaginary company and determine how to make it as profitable as possible: you'll start by coming up with a business idea and then determine all the equipment and staff needed as well as the relevant costs. In addition to learning practical skills you'll also learn the meaning of mystical words such as "gross margin" and "EBITDA".

Matrix Algebra Period II

In addition to matrix algebra being an important tool for every scientist, it is also a new discipline for the average physics fuksi. There is an abundance of new information to internalize, but it is certainly worth the effort, as you will frequently encounter matrices regardless of your choice of major.

Compulsory language course Period I-II

One language course is a mandatory part of university studies in Finland. It fits nicely in the first year and it's good to get out of the way right away.

Differential and Integral Calculus 1 Period I

The fuksi year mathematics studies are largely based around building your mathematical toolkit. The first part of the Calculus trilogy promises sequences, series expansions, differentiation, integration and differential equations, which will already be put to use in the next physics and maths courses.

Programming 1 Period I-II

Programming belongs to every scientist's general education. The course lasts the entire duration of the fall, during which you will not only deepen your understanding of programming basics, but also engage in creative problem solving. The course is traditionally laborious but rewarding.



Events during the Fuksi Autumn

- 26.8. Headstart
- 28.8. Kiljava
- 29.8. FK x PT Mighty Adventure
- 30.8. Chill games & relaxing sauna
- 31.8. Otasuunnistus
- 1.9. SCLvaa & OtaFest
- 4.9. Song sauna
- 7.9. Stadi-suunnistus
- 9.-10.9. Teekkari culture sitsit & sillis
- 13.9. QT x TFM Get Together
- 21.9. Autumn fuksi excursion
- 25.9. Membership application meeting
- 30.9. Otatarha Grand Prix & Lakinlaskijaiset
- 13.10. Fuksi groups' night
- 29.10. SCI fuksi event
- 14.11. Fuksis' Jubilee Sitsit
- 26.-28.11. Otacruise
- 7.12. Guild of Physics pre-christmas party

Fuksis in Otaniemi have a very special status: there are tons of events that are organized specifically for you. We really recommend you to already save these dates!



Director's Greetings

Congratulations on your admission and welcome to Aalto University!

We are excited to have you in our Bachelor's Programme in Science and Technology, designed to respond to the growing digital transformation of our society and to groundbreaking advances in engineering, automation, chemical engineering, quantum technology, information sciences, computation, and artificial intelligence.

Our program is fully taught in English, acknowledging the truly international environment of Aalto, bringing our international faculty closer to students, and opening Aalto's doors to talented and motivated students from all over the world.

We are a leading research institute, hosting several top-notch research groups and world-class research infrastructure. Our excellence in research provides also a stimulating education environment where top faculty teaches what they are passionate about, inspiring students and opening new horizons.

Starting a University degree poses new challenges: you need to be more independent, responsible, and self-driven. Your new path can also be a highly satisfying experience: in addition to deepening your knowledge in basic studies, you will

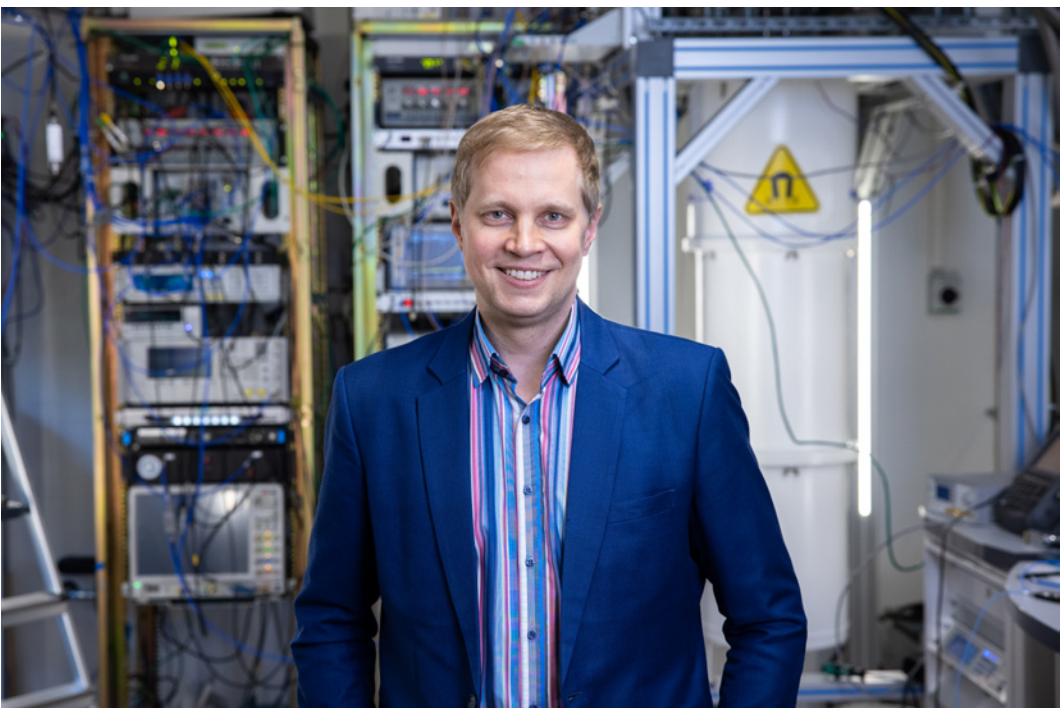
obtain the opportunity to think about real-world problems that impact our society, and come up with your own ideas, solutions, or projects.

We encourage you to stay focused in your studies and to build a solid foundation of mathematics, science, and technology, which can support you in your future academic endeavors for the rest of your professional career. On the other hand, keep in mind that technology is progressing at an extremely rapid pace and many of the technical skills that you will acquire today may not be relevant in five or ten years from now. To prepare for the unknown future challenges we guide you to approach your studies with a problem-solving attitude. Foster your curiosity, intellectually challenge your teachers and your peers, and seek for creativity. Do not hesitate to pursue your own ideas, start projects with your classmates, and go out of your comfort zone. The time at Aalto is the time you become a game changer at heart.

Most importantly, have fun! Great things happen when you enjoy what you do and feel good about your choices. As the happiest country in the world, Finland holds great potential in offering you also this momentum.

Yours,

Mikko Möttönen
Programme Director







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GUILD OF PHYSICS

Our guild's history goes back over 75 years. On the following pages you will get to know the Guild's functions, its board members and the guild room. Additionally, you can read about job opportunities and career stories of our guild members.



President's Greetings

Hello, new fuksi in Engineering Physics and Mathematics or Quantum Technology! First of all, congratulations on your admission, and for a great choice! I'm Julia Virtanen, and I'm this year's President of the Guild of Physics. First, the official part: the Guild of Physics is a registered association operating under the Aalto University Student Union, which brings together students of the Engineering Physics and Mathematics and Quantum Technology (TFM and QT) study programmes. It's great that you are joining us!

So what does the Guild actually do? In short, everything you can imagine. The Guild is run by a 12-member board led by me. All the board members are great people, and you can always contact them if you have any questions. You can read more about the board on the next page. In addition, a huge number of guild officials in various positions are involved in making things possible. It's a completely voluntary activity, and it shows in the way it's done; with a good attitude and a good heart. The Guild's activities are very varied, with the most visible being events such as parties, sauna nights, sports, cultural events, and company visits. The Guild also promotes the interests of its members, both in terms of studies and working life; representatives of the Guild are involved in school decision-making bodies to ensure that students' rights are respected, and there is cooperation with the business world to facilitate activities and market interesting jobs and career opportunities for members. For you, the most visible part of the Guild's activities will first be fuksi education, which is the responsibility of our wonderful Fuksi Captains and the BIG Coordinator, with the help of our brilliant BIGs! They are there for you as fuksis, and you can always turn to them!

I'm sure you can find a lot of information about the studies in other places, such as in the Master of Academic Affairs, Tommi's, greeting, but I will shortly go through what I think are the most important things. University studies offer a whole new set of challenges, but also a whole new set of opportunities. The importance of independence is emphasised a lot, also compared to high school. However, you can always ask for help, both from the lecturers and from your fellow students. Everyone learns in the style that suits them best, and it's worth taking your time to find your own style and try new things. It is also worth remembering that academic responsibility is balanced by academic freedom; there is much more freedom in the planning and pace of your studies and the target date for graduation is a target; it is perfectly OK to change pace. It is also worth remembering that we are learning here: it's perfectly normal not to learn everything immediately or perfectly, and grades should not be



given too much weight. Your first priority is to look after your own well-being, so that your studies will be more meaningful.

There is so much more to student life at Aalto than just studying, and I encourage you to make the most of it. I would argue that the lessons you learn in your free time are just as important in life as the ones you learn in lecture halls. For me, going into guild activities has given me an incredible amount of new friends, experiences, and important skills, for example in team work. On the other hand, Otaniemi has hobby clubs for every kind of activity, so here you can try out new hobbies and easily find new interests that can lead you to surprising things. In this new environment, you may soon find that you have discovered completely new sides of yourself. But finding them takes a little courage. So I think this is the most important tip for the coming years: be open-minded about new experiences and opportunities. I can promise you that you will find more cool things in your life if you are open to them and willing to step out of your comfort zone!

Once again, huge congratulations. I wish you a very happy fuksi year and an enjoyable teekkari life during your studies.

Looking forward to meeting you and welcome to the Guild of Physics!

Julia Virtanen
President
puhehenjohtaja@fyysikkokilta.fi
Telegram: @juliavirtanen

Board of the Guild of Physics

Next you'll get to meet the Board of the Guild of Physics, which consists of 12 people in total. The Board takes care of guild affairs under the leadership of the President, whose greetings you may have already read on the previous page. Each board member has their own area of responsibility and, depending on the position, a number of guild officials to manage. The Board generally meets weekly, organizes events together and represents the Guild. On the following pages you'll get an idea of the duties of each board member. If you are interested in more detailed descriptions of the positions, it is worth checking out the Guild's website or approaching one of the board members directly!



**President
Julia Virtanen**

The President is responsible for keeping the show on the road. Above all, they are the pillar of support for board members. The President coordinates board members and ensures that everything is done in time. Other tasks include preparing meeting agendas, dealing with administrative matters, and keeping in touch with the Dean, the school, and other relevant parties.



**Vice President
Laura Rautiainen**

The Vice President takes care of the administrative side of the Guild together with the President. The most visible administrative task of the Vice President is to write the minutes of board and guild meetings. In addition, the Vice President is responsible for organizing recreational events for guild officials, and makes sure they receive enough guidance for their tasks.



**Treasurer
Joonas Lindell**

The Treasurer is responsible for the Guild's finances and financial transactions. The treasurer sends invoices to guild members and companies, and pays the bills. The Treasurer draws up the budget together with the rest of the Board at the beginning of the year, maintains book-keeping, and prepares the financial statement at the end of the year.



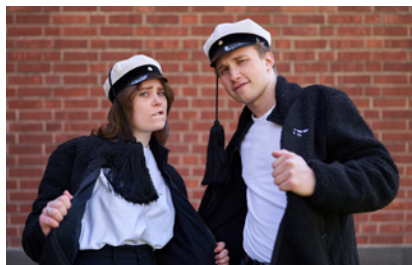
**Communications Officer
Iris Kause**

The Communications Officer sends out the Guild's weekly newsletter and is responsible for maintaining and developing the Guild's digital services. In addition, they manage a large and diverse Information Division, which includes Tech Support developers, graphic designers, badgers, photographers, the Social Media Team, reporters of the guild magazine Kvantti, and more.



Master of Leisure
Maaria Tiiri

The Master of Leisure is responsible for the Guild's well-being, sports and cultural events. They are assisted by a large number of guild officials, and in particular by the Committee of Leisure, which organises, for example, various sauna, game, and cooking nights. The Master of Leisure is also responsible for the guild room, together with the guild room committee.



IE
Essi Nikula ja Samuel Toivonen

The Host and Hostess, more commonly known as IE, are one of the event organizers of the Guild and are mainly responsible for organizing the Guild's largest events, such as sisisit. IE also runs the Committee of Internal Affairs, Sisis, which is an important help to IE in organizing events.



Master of Corporate Relations
Jaakko Sirén

The Master of Corporate Relations is responsible for the Guild's corporate relations. In practice, this means organizing company visits and fundraising in the form of sponsorship deals. They also organize career events and send out the career newsletter to guild members. The Master of Corporate Relations leads the Guild's Corporate Relations Division, which helps the Master of Corporate Relations in organising all of the above.



Master of Academic Affairs
Tommi Huhtinen

The Master of Academic Affairs represents the guild members in university-level administrative bodies and coordinates study tutors and the Academic Affairs Division of the guild, which consists of the Academic Affairs Adjutants who support the Master of Academic Affairs in various tasks, the previous Master of Academic Affairs, and the student recruitment team that promotes the QT and TFM study programmes to high school students.



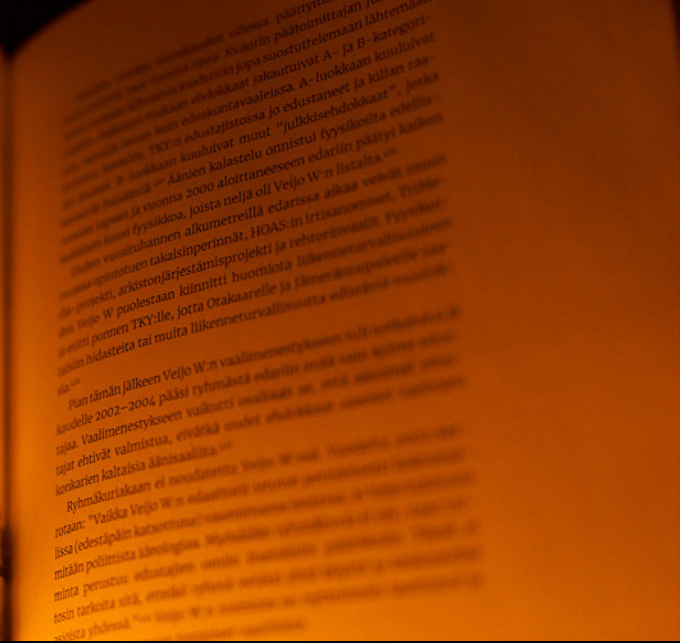
Fuksi Captains
Saskia Pirttiniemi ja Severi Kasurinen

The Fuksi Captains are responsible for everything fuksi-related in the Guild. The Captains organize events for fuksis and make sure that You feel welcome. Their job is to introduce the fuksis to Teekkari culture, the Aalto community, and the Guild. The Fuksi Captains work in close collaboration with the International Captain, the BIG Coordinator, the BIGs, and the Fuksi Committee.



International Captain
Ville-Eemeli Kovanen

The International Captain looks after new exchange and Master's students and organizes international events in the Guild. They make sure that foreign students feel welcome in the Guild and helps them in practical matters, with the international BIGs. The International Captain is in charge of the Foreign Relations Division, which manages relations with other associations in the field.



Guild of Physics through the years

- 1947** The Guild of Physics is founded at the founding meeting February 13th, 1947.
- 1948** The first annual ball of the Guild is held in the top hall of the Old Poli.
- 1958** The first own Guild Room in OK3 basement.
- 1959** Move to Otaniemi.
- 1965** The study programme of Engineering Mathematics is established.
- 1970** The first Fuksi Guide is sent to fuksis.
- 1973** The Guild's 2nd Guild Room in OK3 upstairs.
- 1976** The first Kvantti is published.
- 1977** The Guild's 3rd Guild Room in OK1 U118.
- 1979** The Guild's 4th Guild Room in OK3 lobby.
- 1980** The annual ball of the Guild is named Fuusio. The first declaration of war between the physicists and chemists.
- 1981** Natural white Guild of Physics overalls are used for the first time.
- 1984** Fiisut – the Guild's songbook – is published for the first time.
- 1997** The Guild of Physics turns 50 years old. Fiisut is published as a hardcover book.
- 2002** The Guild of Physics is registered as an association.
- 2004** Fyysikkoalumni ry is founded.
- 2006** ManMan's first performance.
- 2007** The first Fyysikkospeksi: American Spy.
- 2008** The Guild's 5th Guild Room in OK4.
- 2010** Aalto University begins its operations as the former TKK, HSE and TalK merge.
- 2011** The School of Science is established.
- 2013** The guild ribbon of the Guild of Physics is put into use. The snow war between physicists and chemists ends in a draw and a peace treaty is signed.
- 2016** The Guild's 6th Guild Room in its current address in the Undergraduate center next to Student Hub.
- 2017** The Guild celebrates its 70th anniversary. The history book of the Guild is published.
- 2019** The study programme of Quantum Technology is established.
- 2021** The Guild's fuksis win the Otaniemi Jäynä Competition.
- 2022** The Guild turns 75 years old. The Guild's fuksis win both the Otaniemi and National Jäynä Competitions.
- 2023 Spring** The Guild's fuksis win the Otaniemi Jäynä Competition for the 3rd year in a row.
- 2023 Autumn** You become a Guild of Physics fuksi!

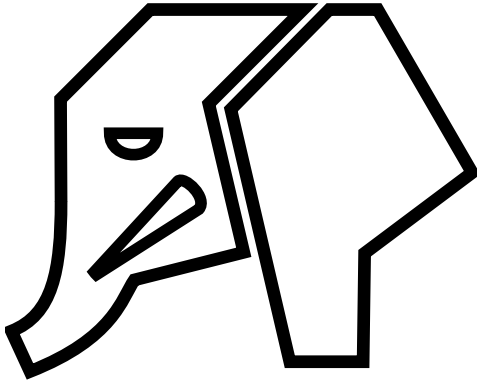


The Guild Room

The guild room of the Guild of Physics, more commonly known as Kiltis, is a shared hangout space for all of us guild members. You can come to Kiltis to drink coffee, study, relax or even just to play Mario Kart. Kiltis is located in the Undergraduate Centre near the Student Hub. You will get to explore Kiltis with your fuksi group already during the orientation week.



Kvantti



Kvantti is the guild magazine of the Guild of Physics with four editions issued yearly. Since 1976 it has provided its readers entertainment and food for thought with articles ranging from satire to politics and guild news. The editors are guild members with a passion for high-quality student journalism, and their work has earned Kvantti the AYY Seal of Approval in the spring of 2018. At kvantti.ayy.fi you can find an archive containing issues throughout the magazine's journey. Don't be afraid to discuss with the editor-in-chief and the crew if you have an idea for an article or want a broader audience for the poems in your drawer.

You can join us by contacting the editorial staff at kvantti.fantti@fyysikkokilta.fi.

A spex is a student run musical, in which the audience gets to interact with what's happening on the stage!

Fyysikkospeksi

Fyysikkospeksi is the Guild's very own spex, something that no other guild in Otaniemi has! Fyysikkospeksi is as far as we know the world's only spex which is also performed in English. The previous spex, All on the line, was performed in autumn 2021. New spex are always produced in a two year cycle and you will have the chance to see the new production this autumn in 2023. The auditions for the spex usually start at the beginning of the same year, so those interested in taking part in the next Spex, can apply in the spring of 2025. If you are interested in taking part in making the spex already during your fuksi autumn, please don't hesitate to contact the producers at tuottajat@fyysikkospeksi.fi!



ManMan

ManMan is Finland's sexiest, most entertaining, best, and only physicist dance group from Otaniemi. You are certainly going to enjoy this lively group's enthusiasm and energy sometime in the future. The dance group is run by ManManMan, and everyone is welcome to join! Many of the members have absolutely no previous dancing experience – the most important thing in ManMan is having fun together and outdoing oneself. You can join us by contacting the ManManMan via Telegram: @amak001



FK Kohellus



FK Kohellus is the Guild of Physics' official sports team, where every member of the Guild has a chance to participate in different sporting events.

At Kohellus we always aim to win but the most important thing is having fun! Every year we take part in a variety of different competitions organized by Unisport. The sports are determined by the guild members' personal interests and new proposals are always welcome! Last year Kohellus played futsal and volleyball, but earlier we have also competed in football and floorball competitions. At Kohellus you don't need to have any former experience; everyone is welcome to join in and have fun!

You can join us by contacting the Kohellus responsible via Telegram: @vesanokka

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Greetings from the Master of Corporate Relations

Hello! And congratulations on your study place, this is most likely the beginning of the best part of your life. You are about to enter the world's best physics and mathematics school in Otaniemi and, in my opinion, the best community on Earth.

I am Jaakko Sirén, a 4th year Master's student in Applied Mathematics with a background of Quantum Technology. This year, I am working as the Master of Corporate Relations of our guild, the Physics Guild, managing cooperation with companies. In practice, this means bringing different companies, career paths and jobs to the attention of the guild members, and providing companies with this visibility. This generates sponsorship income, which is the other main reason for the activity – these companies may well be featured on your future student overalls.

At the Guild of Physics, our corporate partnerships are extensive and surprisingly wide-ranging. Everything from quantum computer and energy companies to banks and consulting firms. You can get to know them better through monthly or so company visits, known as excursions, where you can find out more about what they do, what it's like to work there, and hear career stories. You can take part in these visits several times a year from your fuksi year onwards. There are also a couple of special excursions especially for you fuksis, which you'll hear more about as the year progresses!

All the communication, negotiation, and organisation is not done alone. That's why our guild has a Corporate Relations Division, more commonly known as Ysäri, which brings together our guild's Corporate Relations Team members. Together, we organise various events and share the responsibility for contacting companies. If you're interested in a little sales work, career reflection, and the corporate world in general, you can apply for Ysäri at the end of the year, at the same time as for other volunteer positions in the Guild!

But why do companies want to work with us? The short answer is that you and the rest of us are sought-after talent and, by and large, relatively fast learners. These studies are a unique basis for understanding complex entities, interpreting them and learning to grasp them quickly. This creates the kind of problem-solving skills that many people end up already working alongside their studies. At the Guild of Physics, we aim to highlight



the many career opportunities available so that all of you can find a career path that suits you.

There's no need to worry about the work life just yet. Student life – perhaps the best time of your life – is just beginning! Make the most of it, meet new people and enjoy life in your own way. There's plenty of time to find work and we in the Guild's Corporate Relations Division will be there to support you when the time comes.

Welcome to the Guild of Physics and Aalto! Enjoy the summer and see you in autumn :)

Jaakko Sirén
Master of Corporate Relations
yrittysuhdevastaava@fyysikkokilta.fi
Telegram: @yrittysuhdevastaava

Career Stories from Guild Members

The Engineering Physics and Mathematics and Quantum Technology degrees offer a wide range of career opportunities both in the future and already during your studies. Next you can read about the career experiences of three of our students. The career stories are just a small taste of all the job opportunities that await you!

I am one of those who came to study physics not because of the physics but because of the difficulty. I wanted to go to Otaniemi but I wasn't interested in traditional engineering. In retrospect, I think I did exactly the right thing. I learned to structure difficult problems and got to hang out with people much smarter than me. There were older students in the Guild of Physics who I greatly admired. I still do.

During my studies, I started a software company with two friends. That began – unbeknownst to me at the time – my long career in the software industry and start-up world. Otaniemi gave me the courage to try something that many had not done before.

“Physicists have learned that clear thinking and problem-solving are the keys to success in any field.”

About twenty years after my freshman year, I moved to Silicon Valley, which I think is a kind of “adult Otaniemi”. It's a place where heaps of enthusiastic and smart people arrive with a clear or more often vague dream of the future. When you work together, you end up with something sensible and good.



When I meet younger physicists at work, I recognise curiosity and deliberation. Physicists have learned that clear thinking and problem-solving are the keys to success in any field. Physicists also have a kind of dry and gentle humor that makes us physicists laugh, but not everyone else.

Mårten Mickos
Fuksi 1981
MSc (Tech), honorary doctor

I started as a fuksi in '86 in engineering physics. My studies progressed at a normal pace, I was active in guild activities and made many good friends during that time.

I did my master's thesis at VTT in '91 and stayed there as a researcher. My work included writing scientific articles and my doctoral thesis got written along the way.

The research work started to feel a bit slow, so I moved to the private sector, as an industrial mathematician at a research centre. During twelve years, the tasks changed four times due to organisational changes. Statistics, designing experiments, modelling, and programming. As a result of a company takeover, the whole research centre was closed and I got to looking for new work.

By chance I ended up in banking, working with databases, for four years. The nature of the work changed markedly – theoreticality and reflection were replaced by speed and the ability to tolerate imperfection. Next, I spent several years building automated pricing, and after a reorganisation, a couple of years developing sales reporting.

“I'm still learning new things all the time and there's never a dull moment.”

I wanted to try something different and moved to a role in launching digital signatures. At this point, using Excel was high-tech – most of the day was spent in meetings and emails. Through a few organisational changes,

I found myself responsible for several IT teams in the same area. At the same time, the workload tightened from strategic to tactical/operational and the horizon narrowed to weeks, months at most.

The working days were too long and hectic, so after four years I moved to another area for the same type of tasks. The pace slowed down appropriately and now I can even spend some time thinking about what to do next. I'm still learning new things all the time and there's never a dull moment.

Jukka Sinisalo
Fuksi 1986
DSc (Tech)



When I started at Tefy, I didn't know what I wanted to do later in life. And having just graduated, I still don't really know. However, I have learned that there is no need to worry about it, it's actually a pretty good thing!

After my freshman year, I tried hard to get a job, to no avail. I decided to take a few summer courses and even have a little vacation. This was one of my wisest decisions then. If you study full-time during the academic year, and proceed directly to work all summer, it's hard to recover. And I can't stress enough the importance of proper recovery.

The following summer, however, I got to do my bachelor's thesis at Aalto's Department of Neuroscience and Biomedical Engineering, studying the data analysis process of MEG imaging. Realizing that an academic career may not be my thing, a year later I got into a new environment at Nokia as a software trainee, learning a lot about software development.

In the meantime, I had also had time to work as a freshman captain in the guild, and the following year I would get to join the board of our student union, AYY, to work full-time for the Aalto community. Some wouldn't count these as work experiences, but for me, these have brought the most valuable experiences of my student life – and they are impossible to get anywhere else. So I really want to encourage you to apply for volunteer jobs if they feel interesting!

“...diverse skills and experiences are becoming increasingly sought-after assets.”

During my year in the AYY board, I also finished my bachelor's degree, so I had to choose a master's programme. After much deliberation, I started to study data science in the master's programme in Computer, Communication, and Information Sciences, from which I graduated last spring. With a degree in mathematics, it was really cool to be able to apply maths to such a rapidly evolving field. At the same time, I also got my current job at the startup 1001 Lakes, where I contribute to sustainable data sharing solutions in future data networks.

As you can gather, my CV is a mess. Still, I do not see it as a weakness, on the contrary. In today's working life, multi-year careers in a single organization are starting to become less common, while diverse skills and experiences are becoming increasingly sought-after assets. However, this is just my story. After all, only you can come up with the right path for yourself – and for that, the Aalto community is an excellent place!

Joel Himanen
Fuksi 2015
MSc (Tech)

Welcome to *Aalto University!*

Your first year will surely be full of new experiences, but just what kind? Use our extremely accurate but not necessarily trustworthy prediction system to find out:
The three first words you find below will describe your upcoming year in Aalto.

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V L R S A N G A V I Q N W E K I G R C S
V G A R W N A C T I O N F N V G J E O T
P N M C U C U M B E R O A T X L B A L R
A U A D L B P H E F X V I R B E Z M L E
R F A Z X X T F J V O A R E K L G S A S
I A Z Y S M F Z A K Q T H P R K A T B S
S R Y S U G V G O R L I B R A R Y Q O F
E V H E S D L B L E H O A E O R J Q R R
J F U N T N H S Q U A N U N Z G T H A E
A X X Q A B C X R P C C S E P W Q M T E
K N Z L I J Z Z K L K Z R U X U G O I K
C C N Y N E J A F F A U T R J Y N O O J
H O C G A E E D V F T C Y I B A I S N X
I T A F B R N U C W H V D A P X Q E J F
F G P X L G J B M Q O B Q L P H T Y U E
I H R H E Y G A X G N P W I S A U N A T
Y A V S V T H R I V I N G I P W Y H F D
B B Q P V K F E V O B D F G I B N V C O
M F X Y Y H X W Y E K M X I Y S O Q S D

Aalto Ventures Program helps all Aalto students to see what matters more clearly and find their own thing. Our courses and open events focus on entrepreneurship, sustainability and well-being, and provide everyone with tools for building a better future — for both yourself and the planet.

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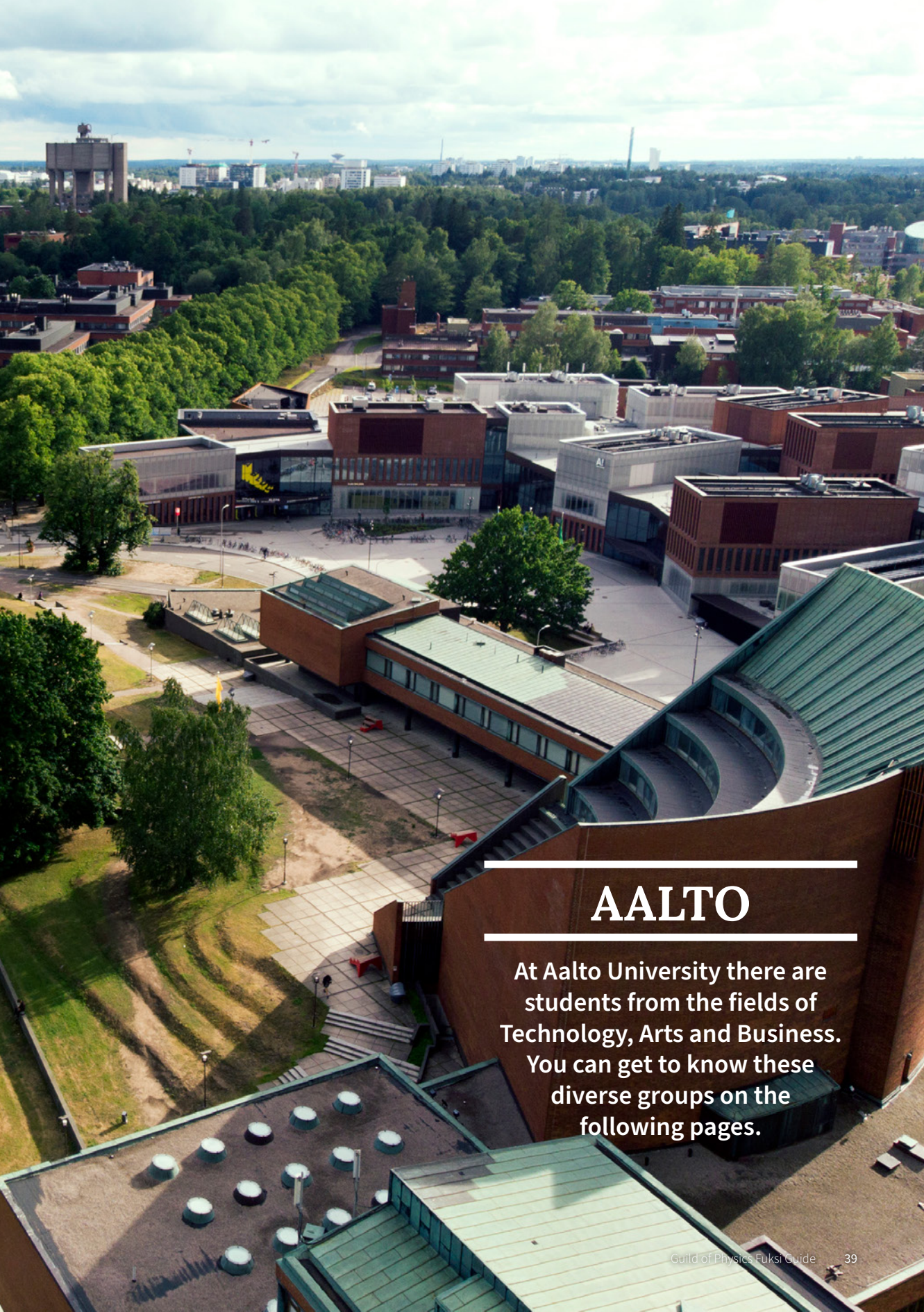
VA
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O



POLICE OF THE YEAR AMUSES DRIVERS - TECH STUDENTS DELIGHT WITH A FUNNY COSTUME



THE BEST JÄYÄ OF THE YEAR WAS AWARDED ONCE AGAIN AT THE FESTIVE OTANIEMI JÄYÄ FINALS



AALTO

At Aalto University there are students from the fields of Technology, Arts and Business. You can get to know these diverse groups on the following pages.

Fuksi Major's Greetings

Greetings new student of technology, dear fuksi,

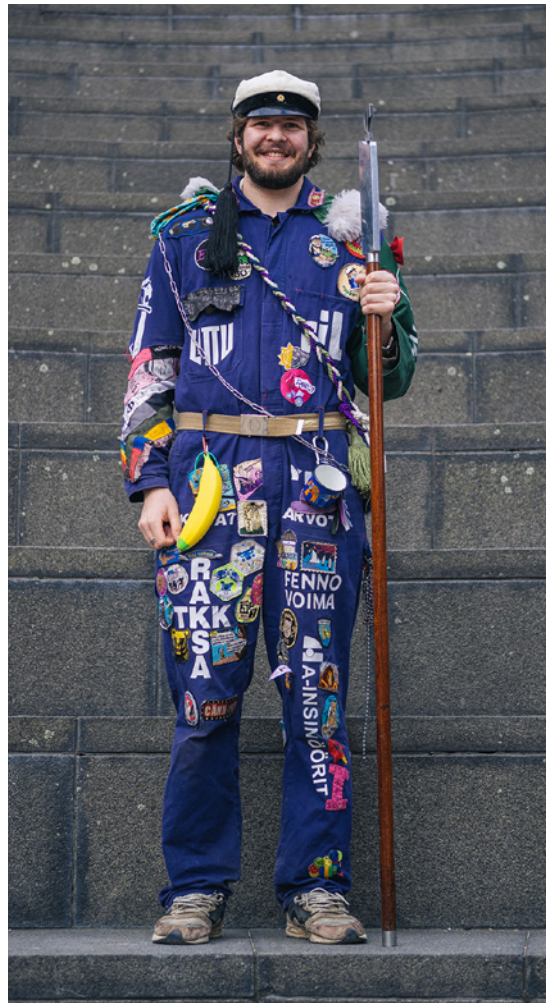
Congratulations on your admission to Aalto University! You have completed the application process with distinction, and now it's time to turn your thoughts onto the start of your fuksi year this coming autumn. I wish you a warm welcome to Otaniemi and our wonderful Aalto and teekkari (technology student) community.

My name is Ramzi El Geneidy, and I am your Fuksi Major. My task, together with the Fuksi Captains and tutors, is to make your first academic year unique and unforgettable. I work as a volunteer under the Aalto University Student Union, and I lead the Fuksi Committee, commonly known as FTMK, which consists of all of the Fuksi Captains from guilds and student associations in the field of technology that admit new fuksis.

Aalto University was founded in 2010, and along with that, students of arts and business have also found their way to Otaniemi. The multidisciplinary university and the Aalto community enable extremely rich and active student and recreational activities to complement your studies. Everyone is sure to find some activity that interests them with a like-minded group!

Although Aalto University is a relatively young university, there have been us teekkaris for a century and a half. Teekkaris have been in Otaniemi since 1966, before which the school was situated in Helsinki. The most treasured distinction of teekkarius, the teekkari cap, has been in our use since already 1893. I hope you keep the long history in mind as you explore the wonderful world of teekkarius. During the decades a lot of traditions have been born, but likewise the culture has developed immensely. Indeed teekkarius evolves constantly – and comprises everything fun and silly us teekkaris ever decide to do!

The teekkari community, into which you are warmly welcome, is unique in many ways. Teekkarius promotes a sense of community and tolerance: teekkaris accept everyone just the way they are and don't leave anyone behind. The tasseled community aims to evoke cheer and joy both within itself and those around it, and outside Otaniemi, teekkaris are known among other things for their jäynäs (pranks), tempaus (good deeds) and teekkari songs. Teekkaris are also characterized by their enthusiasm and will to get things done, which can



be seen especially in different projects where working together, having fun and open-mindedness meet. I wish to encourage you, dear fuksi, to make teekkari activities just the way you like them. Otaniemi is a great place to try all kinds of new and wonderful things!

Fuksi upbringing also has long traditions in Otaniemi. The task for me and above all your Fuksi Captain is to help you get started with student life, as well as to guide you through the entire first school year. During your fuksi year, you'll get to collect fuksi points from various events and activities in order to earn your very own



teekkari cap. The fuksi points will introduce you to the teekkari culture and its traditions, other students, as well as all else Otaniemi has to offer, not to mention all the fun memories you'll get! Your fuksi year will culminate in the largest and most revered event for us teekkaris, Wappu, if I decide to organize one for you.

My most important piece of advice to you, future Teekkari, is that I encourage you to throw yourself into activities with all your heart and a gleam in your eye. You will certainly make new friends with whom you'll spend the next few years. So get to know your classmates, tutors, Fuksi Captains and other residents of Otaniemi, since besides studies, doing fun stuff and making new memories together with others is the best thing that your study time at our university can offer you. Your guild or student association, us in the Fuksi Committee and countless others create the framework for activities and organize events to the best of our ability, but after all, you will get to decide for yourself what kind of fuksi year you want to make yours. A unique year awaits you, so I recommend you make the most of it!

I am in the privileged position of getting to watch you and your fuksi comrades on your journey to becoming teekkaris. Feel free to come and chat with me anytime, I hope to get to know you too.

I wish you a truly memorable fuksi year! <3

Ramzi El Geneidy

Ramzi El Geneidy
Fuksi Major

Did you know...

The Fuksi Major has
overseen fuksi behavior
already in the 1920s?

Phuxivatorns hälsning

Stora gratulationer till din studieplats, och välkommen till Aalto-universitetet! Du har gjort ett ypperligt val och nu väntar ett fantastiskt phuxår. Studietiden är en unik tid i ditt liv och jag hoppas du tar ut allt du kan av den. Jag är Rafaela von Frenckell, Phuxivator på Teknologföreningen, TF, i år. Min viktigaste uppgift under det kommande året är att ta hand om TF:s phuxar.

Teknologföreningen är den svenskspråkiga nationen vid Aalto-universitetet. Våra medlemmar är inte bara de som har svenska som modersmål eller talar det flytande, utan alla som är intresserade av det svenska språket, oberoende skola eller studieinriktning. Du behöver alltså inte kunna svenska för att bli medlem, utan bara vara ivrig att komma med i vår svenskspråkiga gemenskap. TF är till för alla, "ruotsinkielisille ja ruotsinmielisille"! Ta alltså tillfället i akt under de första dagarna vid Aalto att skriva in dig. Det kommer att ordnas en välkomstrundvandring på TF:s nationshus Urdsgjallar för ditt gille under introveckan. Ifall du är nyfiken på vad allt vi gör på Teknologföreningen är det bara att ta kontakt med mig eller komma på besök till Urds!

Kom ihåg att ha det roligt och vila upp dig under sommaren, hösten närmar sig med stormsteg och bär med sig otroliga upplevelser. Phuxåret är ett av de mest minnesvärda åren av studietiden! För en liten försmak rekommenderar jag att du deltar både på gillet och på TF:s startskott redan under sommaren. Då skolåret kommer igång kommer det redan från början att hända mycket och jag hoppas att du modigt deltar på så mycket du orkar och hinner, både på gillet och på TF:s evenemang. På så vis får du lära känna de andra phuxarna samt äldre studerande. Dessutom ska du också samla phuxpoäng under året, de som samlat tillräckligt får sedan teknologmössan till Wappen (om den ordnas)!

Jag vet att Saskia och Severi kommer ta väl hand om dig, men jag finns också alltid här för dig. Läs igenom hela denna blaska, den innehåller mycket information som kommer bra till hands när hösten väl kommer. Njut av sommaren, så ses vi på hösten!

Kram,

Rafaela von Frenckell



photographer: Sofie von Frenckell

Rafaela von Frenckell
Phuxivator
+358 44 211 4943
phuxivator@tf.fi



The Fuksi Committee, FTMK, brings together all Fuksi Captains from the associations that receive fuksis, and organizes fuksi events for all of Otaniemi.

The Fuksi Committee is led by the Fuksi Major Ramzi.

SCI, SCI, SCI!

The School of Science (SCI) consists of five student associations: the Guild of Physics, Prodeko, Athene, the Computer Science Guild, and Data Guild.

In the picture are the SCI Captains Severi, Saskia, Lotta, Emma, Sami, Maria, and Pranav





INTERNATIONAL BSC&TECH. COMMUNITY!

ETCo is a volunteer committee that organizes community events for students from the Aalto Bachelors Programme in Science and Technology. Join our events to meet other international students, enjoy student life, and relax!



SEPTEMBER 4TH ETCo's International Picnic

An opportunity to meet others from the English-speaking technology bachelors programmes! Follow our social media to stay updated about further details.

 @etco_official



TELEGRAM
INFO CHANNEL

SEE YOU SOON!

ETCo,

The English Technology Bachelors' Committee

Qutie's Greetings

Greetings, esteemed Fuksi of 2023!

As you embark on your academic journey at, I am thrilled to extend a warm welcome and introduce myself as your QT Coordinator, affectionately known as Qutie.

I am entrusted with seamlessly integrating the English Major, Quantum Technology, into FK and coordinating with other English Majors to create events for English Bachelor of Technology students. As we navigate this exciting path together, I am here to support and guide you, ensuring that your experiences in FK are nothing short of extraordinary.

Divyansh Sharma
Qutie
Telegram: @div_2511





Guilds

In Aalto University, there are many more students of technology besides us physicists, mathematicians and systems scientists. Here you can get to know a bit about the teekkari guilds that receive fuksis.



Teknologföreningen, TF, is the Swedish-speaking and the only student nation at Aalto. Everyone is welcome to TF regardless of study programme or language. The only requirement is to be interested in learning or speaking Swedish. Teknologföreningen's spaces and its own student restaurant are located in Urdsgjallar, the big concrete building next to Dipoli. TF-members are recognized from their dark red, also known as technology red, overalls.

The Guild of Surveying Engineers, MK, is the association for students in the degree program of Real Estate Economics and Geoinformatics, Sustainable Communities and Built Environment. MK, established in 1901, is the oldest guild that still receives new bachelor's fuksis every year. You can spot the members of the guild by their matte black overalls with a fuchsia colored sleeve. The MK guildroom, Monttu (it means a gob or a pit), is located at the K1 building.



The Guild of Architecture, AK, was founded in 1908 and is Otaniemi's second oldest guild still receiving bachelor's fuksis. It is home to students of Architecture, Landscape Architecture and Interior Architecture, so the members are a mix of students with technical and artistic backgrounds. The Guild of Architecture's overalls are off-white ("painter white") and made of very easily soiled cotton. The Landscape Architects can be identified by the tree on the back of the left leg. Interior Architects design their own fabric to decorate their overalls with. The logo on the back of the overalls is different each year, as it is designed by the fuksis themselves.

The Guild of Civil Engineers, IK, more commonly known as "Raksa", is a guild that was founded in 1913 and accepts undergraduates studying civil engineering and computational engineering. The association, which was originally named "Engineers' Club" aka IK, is Otaniemi's third oldest guild that still accepts bachelor's fuksis. Before the upcoming fall, the guild members majored in Energy and Environmental engineering. Raksa members are easily identified by their builders blue overalls with a green sleeve and pocket and their legendary chant of "RAKSA JAKSAA" ("Raksa perseveres!")



The Guild of Mechanical Engineers, KIK, was founded in 1915, and even with 108 years of history, it is the youngest guild in the School of Engineering. However, it is one of the biggest guild's with over a thousand members. Members of KIK can be recognized by their cheerful pink overalls, their pink caterpillar tractor mascot and their jubilant chants of "Yy, kaa, KO, NE!" ("one, two, THREE, FOUR/MACHINE").

The Guild of Electrical Engineers, SIK, was founded in 1921. The energetic electrical engineers can be identified by their pure white overalls with the new cog logo on the back of the overalls. You can also spot the old lightbulb logo from older students' overalls. SIK's overalls are also decorated by a depiction of a telegram on their right thigh pockets. These overalls can be seen on SIK fuksis from day one, as they are the first guild to receive their overalls in Otaniemi. SIK's chant is "Jappadaida, jappadaida, hei, hyvä SIK!"





The Guild of Physics (aka Fysikkokilta, FK) is a guild founded in 1947. It gathers all Engineering Physics and Mathematics students as well as Quantum Technology students in Aalto under one roof. Each Engineering Physics and Mathematics student specializes in either physics, or mathematics and systems sciences. The guild's overalls are natural white. In order to get the right shade, fuksis dye their overalls with tea. The left sleeve is beige for Quantum Technology students.

The Guild of Industrial Engineers, Prodeko, was founded in 1966, although it says 1866 in their overalls due to a legendary mistake. Although the guild only has a small intake, their members are all the more active! Industrial Engineers can be recognised by their white overalls, which are decorated with rainbows. New fuksis design the overalls from the ground up and put them on for the first time in November at the Sikajuhlat, to which you are also warmly welcome!



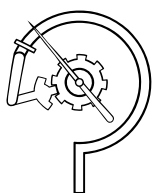
The Computer Science Guild, TiK, is a student guild founded in 1986. Computer Science Guild is one of the largest in Otaniemi. Many of the younger guilds in Otaniemi today have started as a part of this guild, such as AS, Athene and Data Guild. Members of the guild can be found wearing shiny black overalls with the guild's unofficial white @-logo in the back. The chant of the guild can be heard from far away as a two-part call-and-response: "tieto- KILTA!"

The Guild of Automation and Systems Technology, AS, was founded in 1998. It brings together students majoring in Automation and Robotics, Information Technology as well as Digital Systems and Design. The industrious members can be recognised by violet overalls. The left sleeve is black with a white pocket that reminds of shared history with TiK and SIK and the Arduino-blue pocket on the right leg represents Digital Systems and Design students.



The Guild of Information Networks, Athene, was founded by its students in 1999, and from the year 2022 includes also the students of technological psychology. Athene's overalls are a forest green or "Athene green". The overalls' left sleeve, collars and back pockets are black as a tribute to when Athene separated from the Computer Science Guild in 2003. The eye of Athene is the official logo which can be spotted from the overalls.

The Guild of Bioinformation Technology, Inkubio, was founded in 2007 and is thus Otaniemi's youngest guild. As the result of a historic spelling mistake, Inkubio's overalls are a reddish brown, and they are decorated with white "cow" patches, which guild members sew on themselves, to commemorate the time when they were part of the Guild of Electrical Engineers. On their backs, they proudly carry their logo, Maikki, a circuit board in the shape of a cow.



The Association of Process Engineering Students, PT, welcomes Chemical Engineering students in both the Finnish and English bachelor programme. Founded in 2012, PT is one of the youngest student associations in Otaniemi. PT's overalls are a blue and have three stripes, yellow, blue, and red, on each limb as a reminder of the three CHEM guilds that PT descends from. The association's logo can be found on the back: it depicts a Bourdon tube pressure gauge measuring pressure, one of the most important variables in any process.

Data Guild, DG, is the student association for students of the degree programme in Data Science. Founded in 2019, it is the youngest teekkari student association in Otaniemi. The members of Data Guild have two different overalls. The older ones are shiny black with a silver sleeve and the current ones are shiny silver with a black sleeve to commemorate the time of Data Science students as part of the Computer Science Guild.



TOKYO

TOKYO RY IS THE ASOCIATION THAT BRINGS TOGETHER STUDENTS OF THE SCHOOL OF ARTS, DESIGN, AND ARCHITECTURE.



TOKYO is the umbrella association open to all ARTS and art-inclined students.

As a school-level association, TOKYO takes an active part in student advocacy and organizes events to gather together all the ARTS-minded students and alumni.

Our events include Lapland trip, Maskerad, and Christmas Sales, where ARTS students sell their art. TOKYO also owns Kipsari and Kipsari Studio - two great non-profit vegan restaurants- as well as Torso magazine, which is printed at least 4 times a year and showcases ARTS students works + discusses current events and topics.

◦◦ MORE INFO?

Insta: [@tokyo_aalto_arts](#)
Telegram: [aaltoarts](#)
[tokyo.fi](#)

HELLO FUKSI AND WELCOME TO AALTO COMMUNITY!

KY - AALTO UNIVERSITY BUSINESS STUDENTS

KY is a community of more than 3000 business students, "kylteris". Our purpose in the Aalto community is to cherish our 110-year-old traditions, uphold KY culture and advocate for our members. At the campus you can spot us in our dollar green overalls.

KY is home for hundreds of volunteers, who participate actively in KY's clubs, subject clubs, subcommittees and committees. They organize a wide selection of activities to make sure that everyone gets the most out of their time in the university. We have many traditional events that are also open for anyone in the Aalto community, such as the adventure competition Aalto City Challenge, Hukkaputki pub crawl and KY Wappu.

Website: ky.fi
Instagram [@ky_1911](https://www.instagram.com/ky_1911)
TikTok [@ky1911_](https://www.tiktok.com/@ky1911_)

KY 1911

PROBBA RY

Probba is the Student Association of Aalto University School of Business, Mikkeli Campus. All students who study at Mikkeli campus are members of Probba, bringing their size to around 240 members.

Website: probba.org
Instagram: [probbary](https://www.instagram.com/probbary)



Teekkarispeksi – a full-fledged musical production with an interactive twist



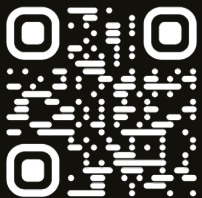
dance, music, stage tech, set design, costumes, graphic design, photography, marketing...



Also open dance courses
in the beginning of the autumn semester!



More information
teekkarispeksi.fi/in-english



TEKKARI
SPEKSI



Teknologorkestern Humpsvakar

The swedish speaking orchestra in Otaniemi! We are your goofproof entertainment at any party with music, dance and singing!

050-D-KEIKKA keikka@humps.f Humpsvakar.fi

RETUPERÄN WBK

selviää myöhemmin

 [retuperanwbk](https://www.instagram.com/retuperanwbk)

 rwbk.fi

 [Retuperän WBK](https://www.facebook.com/RetuperänWBK)

 [Retuperän WBK](https://www.youtube.com/RetuperänWBK)





Capturing student culture.

OUBS ry is Otaniemi-based student association for digital media. We record and livestream events organized by and for students. We also have weekly hangouts at our studio.

You are welcome to join us,
no previous experience required!

OUBS

oubs.fi
youtube.com/OUBSry
hallitus@oubs.fi
Telegram: <https://t.me/oubsry>

BIGS AND FUKSI GROUPS



Meet the BIG Coordinator, International Captain and our magnificent group of BIGs. They will ensure that your fuksi year will be amazing and no one is left alone.



BIG Coordinator's Greetings

Hi and Hello!

My name is Julia, and I am the BIG coordinator of the Guild of Physics. BIGs are tutors at Aalto University whose purpose is to make sure that you freshmen can fully enjoy your university and teekkari student life (Teekkari is a Finnish technology student. Teekkaris have many specific traditions and a colorful student culture). I am responsible for the BIG activities in the Guild.

BIGs are senior students who are supposed to act as your tutors throughout the entire freshman year, right up to the memorable Wappu (Wappu = May day, the day fuksis get their teekkari caps). You can always turn to a BIG if you have any questions, whether it's about your studies or about the culture and activities of the students. Teekkaris have thousands of years old traditions, which you too get to enjoy under the guidance of the BIGs.

Your student life will kick off with an eventful orientation week, the first day of which you will be divided into groups, each guided by a BIG group. During orientation week, you'll get to know other freshers and your BIGs, who could well become your good friends and fellow students. At the same time, the BIGs will ensure that you learn the basics of university studying and the culture of the teekkaris. Even after orientation week, BIGs will be there to help you so that you don't get overwhelmed by all these new things.



The BIGs are invaluable in the guild along with the captains because they are the first contact with the freshmen. Most of them are second-year students with fresh memories of the events and issues of the freshman year, so they will certainly be able to help you in any problem situations. They'll also give you good tips on studying and explain the meaning of, perhaps even a little strange, teekkari traditions.

Congratulations on choosing such a great place to study. Welcome to Aalto University, to the Guild of Physics and to teekkari life! A lot of new students don't think about the importance or activities of the guild (Kilta = subject organization at Aalto) when they start their studies, but the guild events and even organizing them give a great balance to studies. There are lots of small positions in the guild that allow you to get to know a wide variety of guild members. Everyone is welcome to the Guild of Physics! University life is meant to be enjoyed and the guild offers you a great way to do that. Perhaps some of you will end up becoming BIGs for next year's Freshmen.

Enjoy your summer and see you in the autumn!

Julia Valkama
BIG Coordinator
julia.valkama@fyysikkokilta.fi
Telegram: @ISOvastaava



Kluppelberg von Karthago Institute

If the Instituutti continuation of millennia shall last
A change of generations is required to honor its past

If you come as you are and live in the present
Then the coming year shall prove to be pleasant

Along the year you will experience ups and downs of the soul
And soon you should anticipate the tutors poll

And when the noblest song of the teekkari rings
Then experience you shall what the magic of Instituutti brings

The memory of old Phoenicia shall not fade
So let's raise a honeyed toast in its fame

When spring beckons and the roars of the teekkari thunder
At last can old Nabopolassar prepare for his slumber

Like the Instituutti shares it's fortunes with others
Shall we welcome the new phuksis without worries or bothers



Nea, Aarni, Henri-Mikael, Riikka, Timi, Tomi, Veli

BIG groups

MatLab Dance

Your fuksi year is going to be a busy but an unforgettable experience. There are many new and mind-blowing things waiting for you, and more to explore than there is time available.

Us BIGs encourage you to examine the different dimensions of your fuksi years, and support you during this exciting time.

In our group your fuksi years will run as smoothly as a MatLab-simulation!

And the same in MatLab code:

```
while fuksiyear
    exploreTeekkarius()
    partakeInEvents()
    enjoyCheckpointCrawls() % =D
    haveFun(sing, dance)
end
```

Valtteri, Aino, Henrik, Jonna, Lauri, Otto, Sameli



Martta, Anni, Henri, Jonni, Samuel, Teemu, Venla



Scalamon soup

Once upon a time, there were seven BIGs that were making fish soup. They carefully stirred the soup equipped with their ancient wisdom and a recipe by the marttakerho.

The wise BIGs knew that fresh fishies should be salted in a sauna, heated in a hot tub, chilled at a checkpoint rally, smoked at smökki and garnished at the guild room. Sometimes it was also necessary to tenderize with a test, cook with coding, dilute with a derivative or marinate with a matrix.

And so the giant pot was willed with an excellent broth, as everyone worked together for the common goal. The smell of the legendary fish soup made others green with envy.

One day the little fishies found themselves so deep in the soup that there was no return, but at that point they were all so enchanted by the simmering fish soup that no-one wished for anything else anymore.

Fish soup = fuksi year

little fishies = you

the pot = Otaniemi

We BIGs welcome just you, to be cooked in our cooking pot!



Arvid, Juho, Mika, Peetu, Volevi, Valtteri

Faraday's Cagebirds

Three crows sat upon a fence. Silivati sails, silivati sails. One flew away. Another flew to a high voltage line and got electrocuted. The third one flew into a Faraday cage in order to survive.

That's a brilliant choice! As a future teekkari you will learn about the secret of The Cage. We are the Faraday's cagebirds and our goal is to coach you into becoming a shockproof teekkari, who won't be shocked even when atmosphere becomes electric.

Our cage is soft and gentle. We will take care of you so you won't be burnt out after fuksi year. We will share our best tips with you and help you to get started with your studies. Most importantly, we will guide you through your journey towards Teekkarius. In the end of the year you will be ready to step out of the Faraday's cage into the wonderful land of Teekkarius with your Teekkari Cap on. But, for now we shall direct our beaks towards autumn and orientation week. See you there!

Rotor athletes

You can feel your heart racing as you stare at the starting lights tensely. Soon they will turn green and the fuksi year will start with a bang! In the first year you will face many challenges and tight spots, but we Roottoriturheilija-BIGs are here to support you.

We will race along the streets of Otaniemi all the way from Amfi to Smökki and from Taikametsä to Dipoli as we get to know the secrets of teekkari culture. Finally, in the spring when the whirlwind of the courses and student events is at its peak, the finish line can be seen looming at possible Wappu. Then the checkered flag waves and you will get to wear the legendary teekkari cap as a sign of a year's work!

Markus, Aaro, Anne, Antti, Eetu, Oona



Kassu's cabin

Good morning passengers. The captain and crew of the ship welcome you aboard in Kassu's cabin! The estimated time of arrival to your destination of being a fuksi is N-O-W! Please remember to bring your passport (yourself) and your ticket adventure spirit) to start the trip without any problems. The journey in the cabin

will surely be rewarding and as tight knit as an atom nucleus. On this ship, having fun is not only allowed on the outside decks, but you will also experience the student culture from the bottom of the sea to the roof of Smökki. But who is Kassu and why are we in their cabin? That and everything else will make sense in November. We wish you a pleasant journey!



Anni, Aaro, Jimi, Oskari, Otto, Pekko



Incineration rotor

Let's turn our engines up, because it's time to light Otaniemi up in flames (at least figuratively). Our goal is to light your spark of interest towards teekkari culture ablaze and keep the rotors going full speed until (the possible) Wappu. So get prepared for a blazing hot time!

We BIGs are here to help you in any possible situation and are always ready to answer your most flaming questions, so no need to worry that we'll leave anyone out cold.

Charlotta, Elmo, Erik, Salla, Tomi, Vilma

So without further ado, get your engines warm and we'll see you in fall

$\pi\rho\rho\rho$ πgs surface integrals

Hey fuksi πgs, a warm welcome! The time has come to integrate you from zero to $\pi\rho\rho\rho$ as part of our fuksi group, and at the same time also the whole of Aalto (function). We, experienced BIG uncle πgs, aunt πgs, and other older and wiser πgs, will teach you everything you need to know about both culture, and being a swine. However, we must avoid receiving swine points. You can always rely on us $\pi\rho\rho\rho$ s (aka 3ppas or eppas), nothing is too small a reason to pull our πgtails. See you in the autumn!

Saaga, Aron, Eero, Martti, Mimi, Oskar



Gabriel's trumpeters

Through the horn of Gabriel we pass on to you the happy news – you are about to embark on an unforgettable, whirlwind of an adventure of infinite proportions! Like your fuksi year, the horn came to be from something beautiful. Our journey together will be filled with fun, mystique and joy. With the sound of the horn, you have been invited into a magical life as a teekkari, the joy of which is all but guaranteed with the support and security of us BIGs – and we have those in an infinite supply! As a trumpet player, you will discover your inner teekkari, your true passions, and hopefully place your very own teekkarilakki on your head with dignity.

Before our journey begins we ask you to muster up the courage to enjoy these unique moments that are about to ensue – a fuksi year is finite, but the memories are infinite!



Ida, Aapo, Cristina, Ella, Konsta, Oliver



Salomon, Aaro, Armi, Eetu, Ilona, Toni

Determiphants

1x1 little determiphant was marching on forward on a Servin Maija road
As the journey was merry so he asked along one friend more

2x2 little determiphants were marching on forward on a Servin Maija road
As the journey was merry so they asked along one friend more

...

nxn little determiphants were marching on forward on a Servin Maija road
As the journey was merry so they asked along n+1 friends more

Determiphants are square-like mystical creatures that can sometimes be seen in Otaniemi both outside and in lecture halls. In Hakula's halls, young physicists are taught to tame their own determiphants.

“Noli turbare determifantos meos!” -Arkhimedes $\det \begin{bmatrix} 15 & 8 \\ 11 & 20 \end{bmatrix}$ eKr.



Maxwell's Demons

Even this fuksi group's curl has curl on Otaniemi's (vector) fields because if Maxwell's demons can defy the second law of thermodynamics, anything is possible for them! Because the concept of impossibility is defined only in terms of the predominant paradigms of our time, any new or old scientist must never forget the three a's of the demonic philosophy: assess, apprehend and amplify entropy.

If embracing any one of these three principles (especially the last one) gives you any difficulty or ease during your upcoming fuksi year, our fuksi group's BIG's are gladly willing to participate in pondering whether or not the magnetic field actually has a vector potential, can one eat steamed dark rice every day, and how does one manage the orientation week in the best way possible.

"[Aalto University's] research group also investigates the possibility of realizing [Maxwell's] demons on the quantum scale." – Wikipedia

As such: Even smaller things to come.



Eero, Aatu, Jaakko, Max, Oskari, Tuomas

Quantum

Schrödinger's Chaotic Apprentices of Theoretical Science

In a time before humans and Schrödinger, the world was ruled by cats. They hunted, played, and studied physics. These ancient felines defied the laws of nature by mastering the art of gravity and fluid dynamics. Legend has it that a cat even hurled an apple at Meowton to prompt him to come up with a theory for gravity.

But the history books have erased their achievements, reduced to a mere experiment by Schrödinger. However, a meow generation seeks to rekindle the lost wisdom of the ancient cat physicists.

Our group has six cats with the same DNA as these physicist felines. We're going to guide our Fuksis on their physics voyage. With our pawesome energy and purrfect knowledge of physics, we will unveil the secrets of the universe.

Aada, Foysal, Narat, Nikolas, Parv, Shreyas



FFT – Fast Fuksi Transform

You might be confused fuksis (freshmen) now, but no worries! We will do our best to use our superior Otaniemi knowledge and experience to guide you through your first year which is full of fascinating challenges and the best student life in the world. We will ensure that in no time you will be transformed into fully grown Teekkaris as among us we have discovered the secrets of the most elegant and efficient way to achieve exactly that.

Our BIG team has done onsite research the past year and we have discovered a brand-new algorithm. We present to you the one and only, rigorously proven, peer reviewed Fast Fuksi Transform!

We hope you will enjoy your fuksi year as much as we did!



Tomas, Jayaditya, Kaarlo, Lumikki, Quynh, Rafal, Ruhan

Technology

Supercool Quantum Undergrads of Amplified Derangement, RON!!!

In the halls of academia, the Fuksi of the Supercool Quantum Undergrads of Amplified Derangement, RON!!! (SQUADRON) have emerged as the guardians of quantum knowledge. These bright-eyed and bushy-tailed first-year university students possess an insatiable hunger for knowledge, particularly when it comes to the mysterious world of quantum mechanics.

Led by their fearless captain, the Uncertainty Navigator, the SQUADRON's members are a force to be reckoned with. They may be new to the world of academia, but their passion for learning and their boundless enthusiasm have quickly made them a respected and admired group.

With their unbridled curiosity and their willingness to dive headfirst into the complexities of the quantum realm, the Supercool Quantum Undergrads of Amplified Derangement, RON!!! (SQUADRON) are poised to make a major impact in the world of quantum mechanics. May the force of quantum mechanics be with them on their journey towards understanding!

Matteo, Adam, Daniel, Eero, Matias, Tia-Mari, Väinö

Tupsufuksi Stories

Here are stories from two second-year students. A year ago they were exactly in the same situation as you are right now!

Buckle up for you have just reached your first year at Aalto university. A year full of events, parties, new friends, knowledge, and unforgettable memories. Congratulations on being accepted into Aalto university and welcome to the community.

When I started studying here, around a year ago, I knew nothing about the university or the culture that surrounds it. I moved to Finland just a week before the orientation week began, so I barely had time to settle in the city, before the tornado of experiences, that is the Aalto community, hit me. It nicely introduced me to the student life and everything it entails, the studies, friends, parties, sports, hobby association, events, sauna, and did I already mention friends and new people? Well, it can be repeated because there are so many.

It was a rough and overwhelming start, but there was always the feeling that I was in good hands during it all. The Guild of Physics got my back. Something I came to realize and appreciate during my first year.

“I recommend taking some time for yourself to relax, or spending time on hobbies.”

I acquired a colossal pile of knowledge and experiences during my first year. And there was a few things that have really helped me to make it such a success, which I would like to share here.

Firstly, engage yourself and engagement will meet you back. The guild has so much going on, that you can be part of. Not to mention the many other associations around campus.

Secondly, studies are not going anywhere. You don't need to do your whole degree in one year. Therefore, I recommend taking some time for yourself to relax, or spending time on hobbies. Even faced with the endless opportunities of learning which the university offers you.

Lastly, do what you want to do, there is no right or wrong way of spending your first year of universities studies. My advice would be to try anything that sounds or looks fun, and if you find out it's not for you, then try something else.

I have been talking much about the student life and the opportunities of things you can spend your time on in your spare time. But we are of course all here to learn and study, so let me mention a bit about that. Studies



are time-consuming and at times difficult thing. But in the end it is manageable. Remember planning and time management is your friend, who can make it easier for you. I have to say this, I know it doesn't always succeed, my first year taught me that, but it's the ideal situation which we all strive for. The university gives you some flexibility and control to choose how many courses you have each period, enabling you to regulate stress levels and manage work amount. From my experience most courses have weekly deadlines, so there is stuff to do every week, which sounds scary, but it means you can make weekly rhythms where you have planned timeslots to do the homework for each course.

It is an intense year, full of new, weird, and fun activities, and I highly recommend participating in many of these. For me it created many friends and relations, therefore I feel welcome in so many places, and gives a feeling of community. A community that is ready to welcome you to the roster. So, enjoy the year, have fun, use it to the fullest and take care in the meantime. I wish the best possible fuksi year for all of you.

Nikolas Helbo Konggaard
QT tupsufuksi

Hello, the freshest Guild of Physics members! It's awesome that you have found your way here. I'm so happy for you and I can't wait to get to meet you.

Whether the atmosphere is full of excitement or insecurity, whether you are facing big or small changes, whether it is a new or familiar environment for you – each of you has a fresh table in front of you. Exactly one year ago I was in your current position. A similar kind of Fuksi Guide dropped into my mailbox. I was amazed while browsing the guide. It didn't take long until it was time for Otaniemi. First was the event called Headstart and soon after that the orientation week began. The Headstart has a very special place in my heart. That is because I was so scared to step onto Alvari Square that day. But after that there was no need to be shy – not even during the orientation week.

During the fuksi year I've found myself in different roles on a wide scale. For example, once I found myself dancing and singing on the stage of Dipoli. Another organizing the greatest event of the year and many other times volunteering. These are things I've never done before. With this example I want to support you to keep your mind

“Wherever you come from – near or far – there are people in the same position as you, and that creates an optimal situation to form friendships.”

open and to be brave. These two mindsets might help a lot in making good memories. And if that's not the case, at least you'll get some crazy stories to tell in the future.

In addition to everything new and exciting there are the studies. They will cover a big part of your daily life. But studies are the last thing to worry about. That is, you will manage them for sure. There are some nice group sessions, interesting lectures and well-organized courses waiting for you. Besides, there is always help available. And that is sometimes very much needed – nobody benefits from struggling alone.

I recommend you to get to know your new classmates easily with time. One day you might call them friends. At least that is my experience. It doesn't matter if you don't know anyone from the past. Wherever you come from – near or far – there are people in the same position as you, and that creates an optimal situation to form friendships. Even a short time might bring you close with your new classmates. You'll figure out the new routines and structure of studies over time. There is absolutely no need to be stressed because mostly things will work out with time. Hopefully you can be yourself. Because that is when the best memories are made. The atmosphere



here isn't too serious. We are a big group of unique people and therefore each of you will find friends. I promise that during the fall you'll feel like home.

The upcoming year is full of opportunities. There are lots of different kinds of events – from partying to chill hanging out. On the other hand this forces you to prioritize. Even though events and studying don't exclude each other, you don't necessarily need to participate every time. A cozy evening at home might sometimes be the most suitable option. Personally I've skipped some events and managed not to face the fear of missing out. And that is acceptable! Of course I recommend you to join the events because it gives you so much. But sometimes it's better to recognise your own hobbies and routines that frame your daily life. In other words I once again support you to be yourself and to listen to your heart.

Now it's time to wish you the best summer! Remember to take it easy and get enough rest. If you are already full of excitement, that's great! No need to wait too long. And if you're still a little scared or busy, don't worry. An awesome fall is waiting for you anyway.

See you soon!

Anni Loimu
TFM tupsufuksi

The International Captain's Greetings

Hello there, and warmest congratulations on your choice of Aalto University and most notably welcome to the Guild of Physics!

I am Ville-Eemeli "Veemeli" Kovanen, and I am the International Captain of our guild. In this role my responsibility is to introduce the new exchange and master's students to our guild and the Otaniemi teekkari culture in general. In addition to this, I organize all types of fun international activities for every student, so even you can join us!

As my right-hand people, I have 30 amazing international BIGs, who you can see on the next page. Even though we are responsible for the new exchange students and master's students' teekkari education, the international BIGs and I will be working alongside you Bachelor fuksis intensively. I, Saskia, Severi and Julia will be around in all of the events, so you may approach me as well in the case of troubles, worries or any topic at all.

The international activities are very extensive outside of our guild as well. The International Captain is a part of the Teekkari Section's International Committee (KvTMK), which organizes a multitude of events. Such as, sitsit, sillis, and sauna nights to name a few. These events are open for anyone interested in internationality, not only the exchange students.

In addition to all this, I am responsible for our foreign relations outside of Otaniemi by being the contact person to our sibling associations. We will organize excursions to different student cities and the events within. These are a low threshold opportunity to meet students of the same majors from different universities and learn a bit about the student culture outside of Otaniemi.



The upcoming year is truly a one-of-a-kind experience, as Otaniemi is truly a unique place in Finland and most likely in the whole world. Teekkaris have plenty of traditions and activities that might feel strange and confusing at first. Thus, I wish to emphasize that you do not have to attend everything, as the study time is a unique experience for us all. However, I urge you to try to find the things that feel right and interesting to you. So, keep your eyes open, mind open and give activities a chance. You might find something spectacular that you most likely never thought possible!

I wish you all the best, and luck on your upcoming endeavors, see you in the autumn!

"Stay with me, and you will see a myriad of things."
- Stinky from the Moomins



Ville-Eemeli Kovanen
International Captain
kv-vastaava@fyysikkokilta.fi
Telegram: @kvkippari

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TENNIS IS EASY.
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TEKKARI CULTURE

On the following pages you will find a short guide to some of the fundamentals of Teekkari culture. It is impossible to explain fully what being a Teekkari means – you must experience it yourself.



Manifestations of Teekkari Culture

Teekkari cap

The tassel cap is the important mark of a Teekkari, and in its current form the cap will be 130 years old this year. The Teekkari cap in Otaniemi is hexagonal and the tassel hanging over the right side is attached on the middle of the cap. The color of its lining is technical-red and the cockade is the old symbol of the Student Union of Helsinki University of Technology. Only Teekkaris have the right to wear the cap, and only during the summer time (1.5.-30.9.) unless one has been granted a special permission.

When wearing the Teekkari cap, you are representing a large community and should therefore behave accordingly. It should be worn with the befitting dignity and pride. The Teekkari cap is earned by collecting enough points in the fuksi points card. If the Fuksi Major decides to declare Wappu, the brand new cap can be put on for the first time at midnight between Wappu Eve and Wappu Day. Info about ordering a Teekkari cap will be provided later in the fall.

Overalls

In addition to their caps, Teekkaris can also be recognised by their overalls, although they are also used by many other higher education students. The first common outfit used by Teekkaris was a lab coat introduced in the 1920s, but overalls began to spread from smaller groups to wider use in the 1960s. The oldest Teekkari overalls in the collection of the Museum of Student Life date back to around 1961. However, it was not until the 1980s that actual guild overalls came to use. The overalls are decorated by e.g. sewing on patches gathered from events or exchanged with other students. Exchanges can also be made with parts of overalls, and many have a wide range of more or less useful thingamajigs attached to their overalls.



Tempaus

Tempaus is a way for Teekkaris to affect and comment on current affairs with a bit of humour, but still seriously. Every Tempaus sees the participation of a great number of Teekkaris, which ensures drawing attention to the cause and conveying the message effectively. In one of the most famous Tempaus, Otaniemi's Teekkaris carried bricks from the Soviet embassy in the Eastern Harbour Town, brought to ruin by bombings of the the Continuation War, to Otaniemi to be used as building material for the Teekkari Village. The most recent Tempaus occurred in 2016, when the importance of education was promoted by visiting almost all of Finland's primary schools. A Tempaus is called to action by a person shrouded in mystery, known only as the Stout-Bearded Engineer, "Jämeräpartainen insinööri". The stout-beard calls a gathering of representatives to fill the Teekkari community in on the details. The call obliges fuksis and Teekkaris alike to join in on the Tempaus with their own contribution. Throughout history, fuksis who have avoided the Tempaus have remained without a Teekkari cap, and even some older students may have had their right to wear the cap revoked, if they have failed to honour the call.

Spex

Spex is an interactive theatrical show filled with music and dance. The audience can at any point ask the performers to replay a scene by shouting "Omsart!" An extra instruction can be added to the call, for instance "Omsart, in German!", to which the performers have to instantly recreate the scene whilst adding the necessary injections of "Ach!", "Ich komme!", or other such phrases. Each Spex performance is a unique experience. Under our guild we have our very own spex: Fysikkospeksi!

Sitsit

Sitsit are academic table parties, where fun is had with style and passion. Sitsit usually include a three-course meal with complementing drinks. The main focus at sitsit is on enjoying the evening in good company and singing. The songs initiated by the songleader, “lukkari”, are an inseparable part of sitsit. The evening also often includes different performances. The dress code for sitsit is usually cocktail attire, but the participants can also be invited to dress up according to some special theme.

You'll get your first taste of sitsit at the Teekkari culture sitsit in September!

Annual balls

Different guilds and associations celebrate their anniversary with class and distinction. The celebrations usually start with a cocktail party, where invited troupes present gifts to the board of the association. The main celebrations begin soon after, in the form of a high-profile dinner party. The event continues through the afterparties to a brunch on the morning after, known as “sillis”. The annual ball of the Guild of Physics is called Fuusio, and it is celebrated in the spring on the Saturday closest to Albert Einstein's birthday.

Excursions

Strictly speaking in student terms an excursion means a company visit, but it is also often used as a general term for visits outside of Otaniemi. During company visits, there is usually first an official part, where the company presents its operations, after which the mood becomes a bit more casual and one can meet and greet some of the company's employees. In September there will be an excursion to Innofactor, aimed specifically for fuksis. Excursions lasting multiple days are known as Half-long, “puolipitkä”, or Long, “pitkä”, depending on their duration. Half-longs are usually arranged within the country and Longs usually abroad.



Singing

Teekkari sings rather than well!

Teekkaris are usually enthusiastic singers, and passing a singing test is also mandatory if one wishes to put on the Teekkari cap on the potential Wappu. However, singing wholeheartedly is much more important than one's ear for music. For the singers, AYY has a number of outstanding choirs, such as the Polytech Choir, one of Finland's top male choirs, as well as the mixed choir Dominante.

Wappu maganizes

Two Wappu magazines are published in Otaniemi: Äpy on odd-numbered and Julkku on even-numbered years. They are published around a week before potential Wappu, after which enthusiastic sellers in their overalls rush to the best selling spots in the capital area. The sales proceeds are used to support Teekkari culture and the sellers get their share. You too can join this fun, and at the same time earn a bit of Wappu cash, by selling Julkku!

Jäynä

Practical jokes, Jäynäs, are an inseparable part of Teekkari culture and they can be seen in the daily life of Otaniemi as cheerful tricks and installations. An authentic Teekkari Jäynä uses clever means to bring laughter to all parties involved. Jäynäs are often related to current events or topics, and make use of technology. A Jäynä should under no circumstances cause harm to anyone or anything, instead it should be an insightful prank or practical joke, that in the end even makes the target of the joke laugh. You should submit your own Jäynä ideas to the official Jäynä competition, which reaches its peak near the potential Wappu.

We've only scratched the surface of everything you'll get to experience. Find out more in the autumn!

Otani-English Dictionary

Alvari	Student restaurant in the Undergraduate Centre. Can also refer to the Alvari Square.
Amfi	Amphitheatre towering above the Otaniemi skyline. An important altar of Teekkari culture, where e.g. the caps are distributed.
Annihilaatio	Annihilation. Party organized by Guild of Physics fuksis in the spring, open for everyone.
Assari	Course assistant. Coordinates exercise sessions (see Laskarit). At their best capable of explaining things in an understandable way.
BIG, ISO	Your guide and support right from the orientation week up until the possible Wappu. Always written in BIG letters.
Bälst	When something happens with great intensity. Etymology possibly rooted in the word “blast”.
Bärs	See Körs.
Dipoli	Colossal labyrinth of a building in Otaniemi, which you’ll get to know in many events.
Eastern Harbour Town	Inhabited region immediately east from Otaniemi. In some circles also known as the capital of this country.
Ellipsis operator “...”	Transforms a mysterious, completely incomprehensible expression into a clean and neatly simplified end result.
Epsilon	Arbitrarily small Greek letter, which can get you in trouble on math courses.
Excursion, excu	Visit of variable length to one or more companies in the field.
Fiiisut	Songbook of the Guild of Physics.
FTMK	Fuksi Committee. Consists of all Fuksi Captains of Otaniemi.
Fuksi	You; A first-year university student. Easily recognized by the lack of patches on the overalls and the lack of a Teekkari cap. First-year business students are called mursus.
Fuksi Major	Leader of the Fuksi Committee. Decides whether Wappu is organized.
Fuusio	Fusion. The annual ball of the Guild of Physics, always organized on the Saturday closest to Einstein’s birthday. This year the Guild turned 76 years old.
Gravitaatio	Gravitation. Huge winter party organized at a large club in the Eastern Harbour Town.
Hinaus	Towing. Heated argumentation on a more or less meaningful topic, usually observed at the guild room or on a mobile platform. National sport of the Guild of Physics.
Hottis	The Guild’s Committee of Leisure. Organizes, for example, sauna evenings and culture and sports events.
Iteration	Repeating the same thing over and over again, until the desired result is achieved. If you didn’t catch that, read this part again.
JMT	Jämeräntäival. One of the densely populated neighborhoods in Otaniemi.
Julkku	Wappu magazine published on even-numbered years.
Jäynä	Practical joke that brings a smile to all parties involved.
Kiltis	Guild room. Our kiltis can be found in the Undergraduate Centre.
Kimble	Popular board game, where success requires masterful tactics. Getting eaten is severely penalized.
Konklaavi	Croquet association, which organizes croquet games with creative penalty practices. The game selection includes relaxed one-off games as well as the traditional summer league.
Kvantti	The house organ of the Guild of Physics, and guild magazines’ supremum.
Kylteri	Business student.
Körs	See Bärs.
Lakinlaskijaiset	Giant party where the Teekkari cap is gracefully lowered into winter hibernation.
Laskarit	Exercise session. Can refer to either the event or the exercises themselves.
L^AT_EX	Popular typesetting system. Convenient for writing mathematics-laden text, and even more convenient for getting thoroughly frustrated.
Lukkari	Songleader. Leads singing during sitsit, and upholds the Guild’s song culture.
Lörs	Thing or state where not everything is all that fine-tuned. Also a useful filler word.
ManMan	The sexiest, most charming, best, and only Otaniemi-based physicist show dance group in the world.

MT	Miestentie. Center of student housing at the southwest corner of Otaniemi.
Museum of Student Life	The oldest museum presenting student cultural history in Finland. Grounded in 1958. Located in the JMT 3A cellar. Known before 2021 as “Polyteekkarimuseo”, i.e. “Polytechnical Students’ Museum”.
Mörkki	
N	Year of studies after the fourth one.
Nepsu	Name that fourth-year students go by.
Noppa	ECTS study credit (cr, op). Quasi-standardized unit used for tracking the completion of studies.
OK20	Otakaari 20. Contains housing as well as sitsi spaces and a sauna.
Order of Malt, MaltRK	Thousand-year organization, which is from time to time seen helping organize guild events. Dresses in robes.
Ossin linna	Otakaari 18. Contains housing as well as a sauna called Ossinsauna and a space called Ossinkulma.
Otanize	When everything you need is in Otaniemi.
Palju	Hot tub. Very relaxing. Fits N+1 Teekkaris.
Phi, Φ	The most beautiful and well-proportioned of the Greek letters. Symbol of the Guild of Physics.
Pilalla	Ruined. When something just isn’t quite like it should be.
Pitkä	Long. Excursion lasting at least one week, usually abroad.
Prujata	“Can I just quickly glance at your laskarit?”
Pruju	Lecture notes compiled by the professor.
Puolipitkä	Half-long. Excursion lasting multiple days but under one week, usually within Finland.
Pöhinä	State of mind where a group develops astoundingly innovative ideas.
Raati	Board of the Guild of Physics. Elected annually in the election meeting, usually in November.
Rantsu	Rantasauna. Sauna on the eastern shore, built with Teekkari spirit and partly labour, too.
Report	Method of transforming haphazard laboratory measurements into scientific work.
RWBK	Newer-French-horn-music-playing technology student voluntary fire brigade orchestra from Espoo.
SCI SCI SCI	Battle cry of the School of Science. We ski while shouting.
Setä, täti, käpy	Slightly older student. Half of what they say begins with “When I was a fuksi...”
Sillis	“Herring breakfast”, which despite the name rarely includes herring and is more of a brunch than a breakfast. Held on the next day of annual balls, and possibly other parties as well.
Sisis	The Guild’s Committee of Internal Affairs. Organizes parties and sitsit (see Sitsit).
Sitsit	Academic dinner party, where food is eaten, drinks are drunk, songs are sung, and fun is had.
SMT	Servin Majjan tie, aka Family Village. One of the densely populated neighborhoods in Otaniemi.
Smökki	Servin mökki, Jämeräntaival 4. Common space for sitsit and parties.
Teekkari cap	Tasseled, hexagonal cap in Aalto. The permission to wear one can be obtained on the possible Wappu of the fuksi year at the earliest.
Telegram, TG	Messaging app widely used in Otaniemi. Somewhat like WhatsApp, but immensely more functional.
Tempaus	Way for Teekkaris to draw attention to something they deem important.
Tripsu	Name that third-year students go by.
Trivial	Mathematical terminology: “I know.” Also “Absolutely no idea how we obtained this result, but...” → “It is trivially seen that...”
Tupsu	Tassle. Ornament of the Teekkari cap. Also a name that second-year students go by.
Täffä	Name that Teknologföreningen, AYY’s Swedish-speaking nation, as well as its strange concrete building and the restaurant therein go by.
Ullis	Ullanlinnanmäki in Kaivopuisto area of the Eastern Harbour Town. Site for sledging in the winter, and a picnic sillis on Wappu day.
Undergraduate Centre	Building at Otakaari 1, where the guild room is also found. Former main building of the university, giving rise to the commonly used name “päälafka”, i.e. “Main Building”.
Wappu	Fascinating time period organized potentially between the start of April and May. Huge and traditional festivity, where fuksis who gathered enough points get their cap. Must be experienced first-hand.
Äpy	Wappu publication published on odd-numbered years.

Otaniemi Campus Map



- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Undergraduate Centre, aka Main Building (päälafka) 2. TUAS Building (TUAS-talo) 3. CS Building (T-talo) 4. PHYS Building (Nanotalo) 5. ENG Building (Konelafka) 6. CHEM Building (Kemianlafka) 7. Maari Building (Maarintalo) 8. Väre and A Bloc. Here you'll find grocery stores and a metro station 9. Harald Herlin Learning Centre, aka Library 10. Alvari Square 11. AYY Central Office, aka Keto | <ol style="list-style-type: none"> 12. Dipoli, the official university main building 13. Otahalli and Unisport 14. Otaranta 15. TF, aka Täffä 16. Otakaari 20, aka OK20 17. Otakaari 18 and Ossinkulma 18. Servin mökki, aka Smökki 19. Rantasauna, aka Rantsu 20. Museum of Student Life 21. Ossinlampi 22. Finnish Student Health Service, FSHS (YTHS) <p>  The Guild of Physics guild room, aka Kiltis </p> |
|---|--|



*Mega hype to have you join the Guild of Physics and the Aalto community!
Let's make the coming year unforgettable!*

– Saskia, Severi, Veemeli, Julia

Follow the Guild of Physics!

- The Guild's website: fyysikkokilta.fi/en
- Instagram: [@fyysikkokilta](https://www.instagram.com/fyysikkokilta)
- Facebook: [facebook.com/fyysikkokilta](https://www.facebook.com/fyysikkokilta)

Remember these:

- Download the Telegram app and join the FK and QT Fuksis '23 groups at t.me/FKfuksit23 and t.me/FKquantum23
- Join the Captains' QT Hotline info channel at t.me/fuysicaptains_bot
- Sign up for the Sat 26.8. Headstart through the QR code on the right or at ilmo.fyysikkokilta.fi/events/345



NOTE! IT IS VERY IMPORTANT THAT YOU JOIN THE TELEGRAM GROUPS ALREADY DURING THE SUMMER!

We'll update the latest information about the Headstart and orientation week there.

ENJOY THE SUMMER!



SO DO YOUR
CAPTAINS <3
