



Helsinki-Aalto Center for Information Security HAIC

N. Asokan, Valtteri Niemi
Meet-and-Greet, October 6, 2017

Agenda

16:00-16:20	N. Asokan, Valtteri Niemi, Eija Kujanpää: Welcome and HAIC first year report
16:20-16:35	Mika Ståhlberg and Alexey Kirichenko, F-Secure
16:35-16:45	Dean Jouko Lampinen
16:45-17:00	Pauliina Snellman, Nixu
17:00 →	Open discussion
	Dinner and sauna

What is HAIC?

Joint strategic initiative by Aalto University and University of Helsinki

Set up in June 2016

Initial mission: attract top students to Helsinki and train them in information security

Backdrop: (a) Introduction of tuition fees (b) End of [NordSecMob](#)

Fundraising 2017

Deans at UH and Aalto committed to tuition waivers to HAIC scholars selected

Outreach to industry: F-Secure & Intel became donors; Nixu became a supporter

Dean/SCI at Aalto offered additional funding: used to offer “honours contracts”

Role of HAIC donors/supporters

Opportunities to

- interact with students
- give feedback on HAIC and on infosec education and research at Aalto/UH

How you can use these opportunities:

- offer summer internships and thesis positions
- influence what students learn
- ...

HAIC Scholars 2017: Aalto University

50 applicants; 11 admission offers; 5 double degree students from ITMO University

HAIC scholar offers: 3 living cost scholarships, 2 HAIC honours contracts

Accepted HAIC scholars:

Name	Nationality	Education	Tuition	Support
Gauhar, Zaheer Ahmed	Pakistan	Pakistan	waiver	scholarship
Khan, Muhammad Abdullah	Pakistan	Pakistan	waiver	scholarship
Kulhavy, Martin	Czech	Austria	-	honours

HAIC scholars: University of Helsinki

Dept of Computer Science has TWO Master's programmes in the scope of HAIC:

- **Master's Programme in Computer Science is the primary one**
- Includes ***Secure Systems*** under ***Networking and Services*** study line
 - 110 applications → 61 to academic evaluation → 39 selected
 - a UH scholarship was granted to one student but finally the student did not join (and neither did the substitute)
 - One tuition waiver was granted instead
- **Master's Programme in Data Science**
 - 85 applications → 54 advanced to academic evaluation → 22 selected

Additional initiatives

HAIC Research arm at HIIT

Invited to become a HIIT program (led by Prof. Valtteri Niemi)

One postdoctoral researcher at UH (Prof. Niemi) and Aalto (Prof. Aura)

Cyber Security Base with F-Secure (UH)

MOOC (Massive Open On-line Course) arranged by UH and F-Secure

First edition: October 2016 – May 2017

- 277 000 views from 50 000+ different viewers
- 5000 students enrolled
- 1000 students completed at least one of the 6 parts of the course series
- No entrance fee
- Main architects: Samu Varjonen, Arto Hellas

Second edition begins 31 October 2017

SECCLLO – Master’s programme in Security and Cloud Computing

Eija Kujanpää
Tuomas Aura

New Erasmus Mundus Joint Master Degrees program (120 ECTS)

- **University partners:** Aalto, DTU, NTNU, KTH, Tartu and Eurecom
- **Associate members:** F-Secure Corporation, Finland, VTT Technical Research Centre of Finland, Intel Labs Europe, Germany, Nokia Bell Labs, France, Cybernetica AS, Estonia, GuardTime, Estonia
- **Budget ~3 M€ over 3 years**
- **Students will spend first year Aalto, next 6 months at partner university + thesis**
- **Expected annual intake: ~20 with full living cost and tuition scholarships**

Reviewers explicitly commented HAIC and scholarships funded by industry

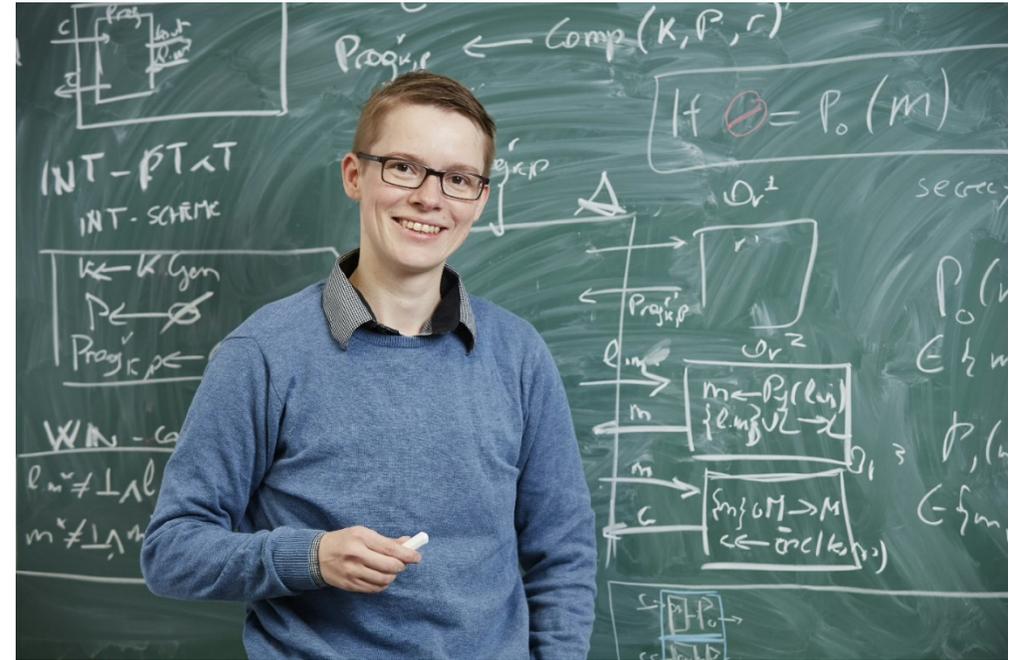
- **Commission expects HAIC to demonstrate continued industry funding**

<http://secclo.aalto.fi/>

<http://blog.ssg.aalto.fi/2017/07/erasmus-mundus-program-on-security-and.html>

New cryptology professor at Aalto

Prof Chris Brzuska will start in April 2018



Highlights of plans for next year

SECCLLO

Need for industry funding to continue

- For non-SECCLLO students, for some SECCLLO students (demonstrating to EC that the program has independent support), preparing for post-SECCLLO years

HAIC public outreach program

Dean Jouko Lampinen

Aalto/SCI

HAIC public outreach

New public outreach program for

- **Studia Generalia lectures**
- **Short courses on topical themes for industry and general public**
- **Video lectures of regular courses**
- ...

Oct 1: Dean/SCI funds a new **Deputy Director for HAIC** tasked with this mission

Dr. Andrew Paverd