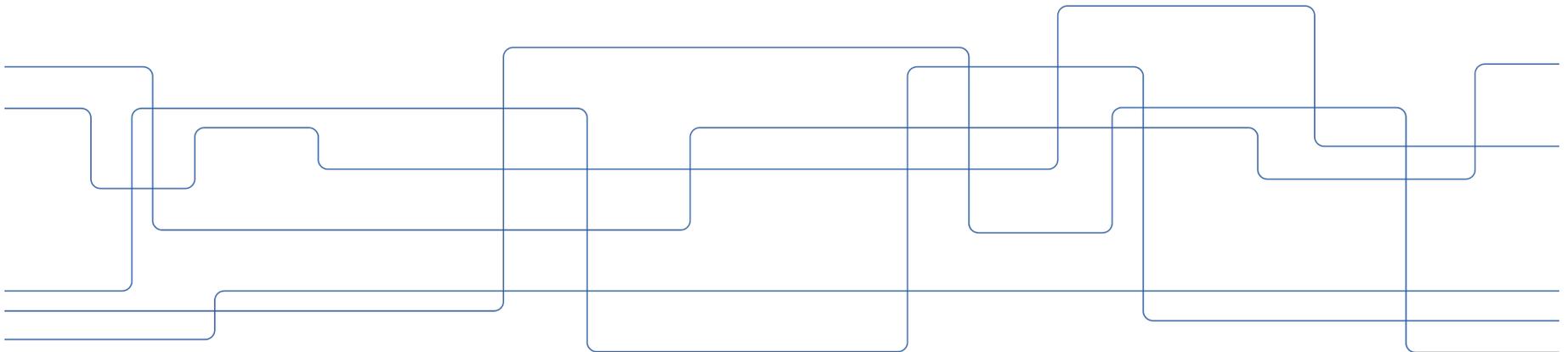


# Master's Programme in Computer Science

## Introduction to Year 2

Philipp Haller, Programme Director  
Associate Professor, School of Electrical Engineering and Computer Science



# Course Contents

- What is the structure of the Computer Science Master's programme?
- How do advanced-level studies work at KTH?
- Study visits at companies
  - either at a distance or in person
- Workplace culture, ethical responsibilities of a computer scientist, life-long learning
- Self-reflection

A blue speech bubble pointing towards the 'Study visits at companies' bullet point.

Also: "second-cycle" or "post-graduate"

# Reflection Seminars

- Depth vs Breadth in Master's Education
- Channels to find interesting jobs
- International opportunities and contexts
- Future of Computer Science as a Profession
- The road towards the Degree of Master
- Mono vs multi cultural workplaces
- Ethical responsibilities
- Life-long learning

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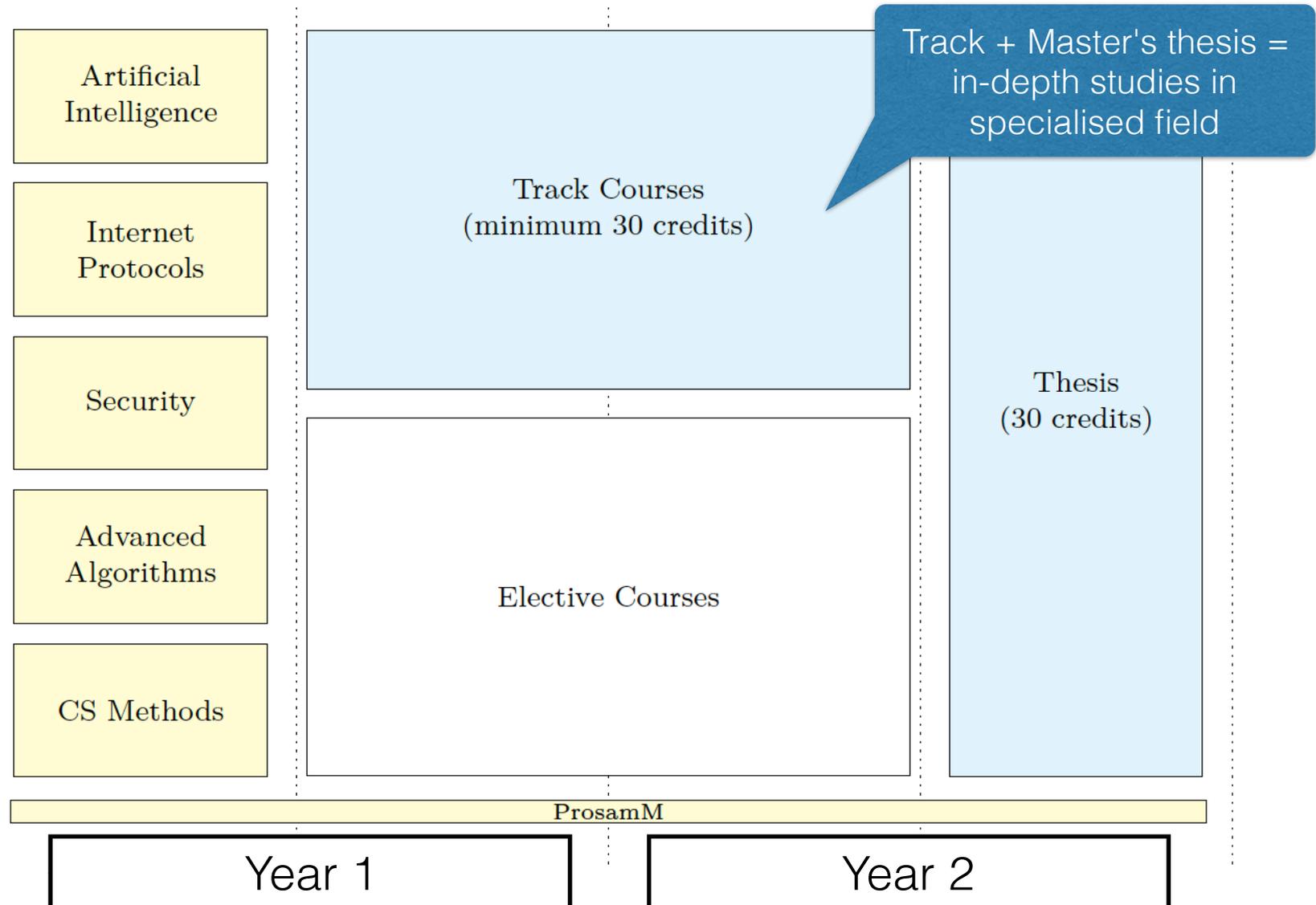
# Reflection Seminars

- Depth vs Breadth in Master's Education
- Channels to find interesting jobs
- International opportunities and contexts
- Future of Computer Science as a Profession
- **The road towards the Degree of Master**
- Mono vs multi cultural workplaces
- Ethical responsibilities
- Life-long learning

# Advice from Students

- "Start in time, write your reflection once, wait a day re-read it re-write and you'll be ready for the seminar"
- "Mark the deadlines in a calendar, otherwise they'll sneak up on you."
- "Give yourself time to read others' reflections, it's worthwhile."
- "Do the seminar assignments as soon as possible. Before all good comments have already been made by your fellow classmates."
- "Go to a small company for the study visit. The big ones surely have student events during the year, so you can visit them anyway."
- "Be active during the seminars, it makes it a lot more interesting."
- "Question your values as much as others. Reflection is key to personal growth."
- "Don't take the course too seriously."

# Programme Overview



# Degree Requirements

## *Requirements for Degree of Master of Science, Computer Science:*

- **120 ECTS credits**
- **90 ECTS credits second-cycle CS**, including:
  - **60 ECTS credits specialization**, including:
    - **At least 30 ECTS credits track**
    - **30 ECTS credits Master's thesis**
  - All mandatory courses

# Degree Requirements

## *Requirements for Degree of Master of Science in Engineering (Civ.Ing.):*

- **300 ECTS credits**
- 180 ECTS credits computer science
- 45 ECTS credits mathematics and science
- **90 ECTS second cycle**
- **60 ECTS credits specialization**, including:
  - **At least 30 ECTS credits track**
  - **30 ECTS credits Master's thesis**
- All mandatory courses

# Master's Thesis

- Investigation/analysis of a significant problem
- Scientific approach
- Interesting for a broader public
- Builds on/part of the specialisation
- Approved project plan

# Master's Thesis

- Project plan: specification and time plan
- Survey of the state of the art
  - Literature study, esp. scientific articles
- Research
  - Analysis, design, implementation, experimental evaluation, case studies, formalisation, mathematical modeling, etc.
- Thesis report (introduction, method, results, case studies, discussion and conclusions)
- Oral presentation
- Review of another student's thesis

# Master's Thesis

## ***Requirements for starting the Master's thesis project:***

- All courses required for Bachelor's degree
- 60 ECTS credits second-cycle courses
- DA2210 Introduction to the Philosophy of Science and Research Methodology for Computer Scientists (6 credits)
- All required knowledge to perform the thesis project



# Master Coordinator

- Johanna Pirttikoski
- Contact: [cs-master@kth.se](mailto:cs-master@kth.se)
- Student counseling
- Track and course registration issues
- Certificates, visas, CSN, etc.
- Deviations from study plan
- ... etc.



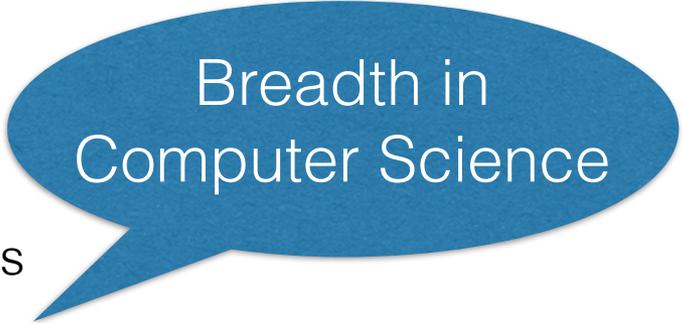
# Q&A

Questions?



# Backup Slides

# Mandatory Courses

A blue speech bubble containing the text 'Breadth in Computer Science'.

Breadth in  
Computer Science

- ***Regular courses***

- DD2440 Advanced Algorithms, 6 credits
- DD2395 Computer Security, 6 credits
- IK2218 Protocols and Principles of the Internet, 6 credits
- DD2380 Artificial Intelligence, 6 credits

- ***Cross-cutting and integrating courses***

- DA2210 Introduction to the Philosophy of Science and Research Methodology for Computer Scientists, 6 credits
- DD2300 Program Integrating Course in Computer Science, 2 credits