



**WASP Graduate School Update**  
**Fredrik Heintz, Linköping University**  
**Director WASP Graduate School**  
**WASP Kickoff 2022-01-12**

**WASP** | **WALLENBERG AI,  
AUTONOMOUS SYSTEMS  
AND SOFTWARE PROGRAM**

# WASP Graduate School Updates

- A single joint curriculum starting in 2021.
- AS & AI students had the choice to change to the new curriculum.
- New courses are being developed
  - Mathematics for ML
  - Introduction to Logic for AI
  - AI and Machine Learning
  - Reinforcement Learning
  - Learning Theory
  - Interaction, Collaboration, Simulation and Visualization
- The spring courses will be online/hybrid.
- A new Graduate School Management Group.

# WASP Courses

Mandatory for all

- Ethical, Legal, Societal and Economical Aspects of AI & AS, 3 ECTS

Select 2 out of 3 courses (provide a foundation for that area):

- Autonomous Systems, 6 ECTS
- Artificial Intelligence and Machine Learning, 6 ECTS
- Software Engineering and Cloud Computing, 6 ECTS

At least 2 more courses among all the courses including the ones above

- Mathematics for Machine Learning, 4 ECTS (new)
- Introduction to Logic for AI, 2 ECTS (new)
- Interaction, Collaboration, Simulation and Visualization, 6 ECTS (new)
- WASP Project Course, 6 ECTS
- Advanced Deep Learning, 6 ECTS
- Graphical Models, Bayesian Learning, and Statistical Relational Learning, 6 ECTS
- Learning Theory, 6 ECTS
- Reinforcement Learning, 6 ECTS
- Scalable Data Science and Distributed Machine Learning, 6 ECTS
- ...

# WASP Graduate School Management Group (GSM)

- Director: Fredrik Heintz, LiU
- Coordinator: Petronella Norberg, LiU; Anna Knutsson, LiU
- Group members
  - Umeå: Paul Townend (SW/Cloud)
  - Uppsala: Benny Avelin (M)
  - KTH: Florian Pokorny (AI)
  - LiU: Daniel Axehill (AS)
  - Örebro: Amy Loutfi (AI)
  - Chalmers: Marina Axelson-Fisk (M)
  - Lund: Elin Topp (AI/AS)
  - WASP research: Karl-Erik Årzen
  - PhD Student Council representatives: Christopher Blöcker, UmU & Anoud Alshnakat, KTH