# Joel Oskarsson

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## Education

- In progress: **Doctoral Studies in Computer Science, Linköping University**, Linköping, 240 ECTS
  Aug 2020 –
  - Part of the Division of Statistics and Machine Learning, Department of Computer and Information Science. I am supervised by Fredrik Lindsten (main), Per Sidén and Jose M. Peña
  - In my research I develop machine learning methods for data with spatial-, temporal- and graph-structure, including combinations of these. I am interested in how more traditional probabilistic methods in these domains can be combined with deep learning in order to derive new methods with useful properties.
  - I am an affiliated PhD Student in the Wallenberg AI, Autonomous Systems and Software Program
- **Master programme in Computer Science and Engineering (Swedish Civilingenjörsprogram), Linköping University**, Linköping, 300 ECTS
  Aug 2015 – June 2020
  Bachelor courses in mathematics, programming and electrical engineering. Master focused on machine learning, statistics and AI.
  - Master thesis: Probabilistic Regression using Conditional Generative Adversarial Networks
- **Exchange Year, ETH Zürich**, Zürich, Switzerland
  Sep 2018 – Aug 2019
  First year of my master as an exchange student at ETH. Courses mainly in machine learning and AI.

# Employment

- **PhD Student, Linköping University**, Linköping
  Aug 2020 –
  At the Division of Statistics and Machine Learning, Department of Computer and Information Science.

- **Teaching Assistant, Linköping University**, Linköping
  Multiple periods 2016–2019
  Held lessons, seminars and lab-sessions for courses in mathematics, computer science and machine learning. Developed my teaching skills and my ability to communicate scientific concepts.

- **Summer Intern, Ericsson**, Linköping
  Jun-Aug 2018
  Summer internship at Ericsson Research. Worked with GNSS positioning.

# Specific Knowledge

- Models and algorithms for modern **machine learning and AI** applications. Including, but not limited to:
  - Deep learning models, advanced architectures and training regimes
  - Bayesian models and inference methods
  - Underlying statistical theory
  - Implementations using suitable libraries

- Programming languages and frameworks

  **Knowledgeable in** Python, PyTorch and SciPy/NumPy.

  **Experience with** Tensorflow, R, scikit-learn, Java, MATLAB and C++.

- Accustomed to working in Linux environments.

- Speak both Swedish and English fluently and communicate well in both languages. Basic understanding of German.

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