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Education

University of British Columbia

PhD. IN COMPUTER SCIENCE

· Specializing in probabilistic programming and machine learning

The Technical University of Denmark

MSc. in Mathematical Modelling and Computation

• GPA: 10.8/12.0

California Institute of Technology

EXCHANGE STUDENT

• GPA: 3.6/4.0

The Technical University of Denmark

BSc. IN EARTH AND SPACE PHYSICS AND ENGINEERING

• GPA: 10.8/12.0

Vancouver, Canada

2018 - 2020 (expected)

Copenhagen, Denmark

2016 - 2018

Los Angeles, USA

Copenhagen, Denmark

2013 - 2016

Skills_____

Programming Python, Julia, Clojure, Matlab, C/C++, LTEX

Machine Learning and Scientific Computing Libraries

PyTorch, Tensorflow, Scikit-Learn, Numpy, Scipy

Probabilistic Programming Languages

PyProb (contributor - pending pull request), Anglican, Pyro

DevOps Docker, Singularity

Languages Danish (native), English (fluent), German

Experience _____

ACADEMIC EXPERIENCE AND TEACHINGS

The Technical University of Denmark

TEACHING ASSISTANT

· Course: Introduction to Machine Learning and Data Mining

The Technical University of Denmark

TEACHING ASSISTANT

• Course: Continuous and Discrete Time Signals

The Technical University of Denmark

TEACHING ASSISTANT

· Course: Advanced Engineering Mathematics 1

INDUSTRIAL EXPERIENCE

Canecto MACHINE LEARNING ENGINEER (INTERNSHIP) Copenhagen, Denmark

Copenhagen, Denmark

Copenhagen, Denmark

Copenhagen, Denmark

2017

2016

2014 - 2015

2017

• In charge of building the company's core machine learning models

Extracurricular Activity _____

World Roundtrip

 ${\sf Denmark} {\rightarrow} {\sf Southeast} \ {\sf Asia} {\rightarrow} {\sf New} \ {\sf Zealand} {\rightarrow} {\sf Central} \ {\sf America} {\rightarrow} {\sf South} \ {\sf America} {\rightarrow} {\sf Denmark}$

2012 - 2013 (6 months)

· By backpacking I was able to meet new people and cultures different from my own. It gave me a new perspective and made me realize just how different all of our lives really are. Truly an amazing journey.

TENNIS, TABLE TENNIS, PIANO, GAMES, WEIGHTLIFTING

· CURRICULUM VITAE **SEPTEMBER 23, 2020**

Honors & Awards

2018 - 2022 Faculty of Science PhD Tuition Award, University of British Columbia		Canada
2018 - 2022 International Tuition Award, University of British Columbia		Canada
2020	President's Academic Excellence Initiative PhD Award , University of British Columbia	Canada
2018	Research travel grant, IEEE Signal Processing Society (SPS)	
2018	Research travel grant, DTU Compute	Denmark
2018	Research travel grant, Otto Mønsteds Fond	Denmark
2016	Scholarship , Garvermester C. W. Gerickes scholarship	Denmark
2016	Scholarship , Technical University of Denmark	Denmark
2016	Scholarship , Frk. Marie Månssons scholarship,	Denmark
2016	Scholarship, Otto Mønsteds Fond	Denmark

Publications.

- [1] Atilim Gunes Baydin, Lei Shao, Wahid Bhimji, Lukas Heinrich, Saeid Naderiparizi, Andreas Munk, Jialin Liu, Bradley Gram-Hansen, Gilles Louppe, Lawrence Meadows, et al. "Efficient probabilistic inference in the quest for physics beyond the standard model". In: *Advances in Neural Information Processing Systems*. 2019, pp. 5460–5473.
- [2] Atilim Güneş Baydin, Lei Shao, Wahid Bhimji, Lukas Heinrich, Lawrence Meadows, Jialin Liu, Andreas Munk, Saeid Naderiparizi, Bradley Gram-Hansen, Gilles Louppe, et al. "Etalumis: bringing probabilistic programming to scientific simulators at scale". In: *Proceedings of the International Conference for High Performance Computing, Networking, Storage and Analysis*. ACM. 2019, p. 29.
- [3] William Harvey, Andreas Munk, Atılım Güneş Baydin, Alexander Bergholm, and Frank Wood. "Attention for Inference Compilation". In: *arXiv preprint arXiv:1910.11961* (2019).
- [4] Andreas Munk, Adam Ścibior, Atılım Güneş Baydin, Andrew Stewart, Goran Fernlund, Anoush Poursartip, and Frank Wood. "Deep Probabilistic Surrogate Networks for Universal Simulator Approximation". In: *arXiv preprint arXiv:1910.11950* (2019).
- [5] Saeid Naderiparizi, Adam Ścibior, Andreas Munk, Mehrdad Ghadiri, Atılım Güneş Baydin, Bradley Gram-Hansen, Christian Schroeder de Witt, Robert Zinkov, Philip HS Torr, Tom Rainforth, et al. "Amortized Rejection Sampling in Universal Probabilistic Programming". In: *arXiv preprint arXiv:1910.09056* (2019).
- [6] A. M. Munk, K. V. Olesen, S. W. Gangstad, and L. K. Hansen. "Semi-Supervised Sleep-Stage Scoring Based on Single Channel EEG". In: 2018 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP). 2018, pp. 2551–2555. DOI: 10.1109/ICASSP.2018.8461982.

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