Filip Thor

Phone: 073- 033 50 38
Email: filipvthor@gmail.com
Personal number: 19960622-1779

Education

Masters Program in Applied and Computational Mathematics at KTH, 2019 - 2021

Bachelor program in Vehicle Engineering, Royal Institute of Technology (KTH), 2016-2019

Exchange student at the Embry- Riddle Aeronautical University's Aerospace Engineering program. Full school year 2018-2019

PhD Student in Scientific Computing at Uppsala University, 2021- Current.

Teaching

Project supervision:

Applied Bioinformatics 15 ECTS, "Deep learning based image segmentation for enhanced seed phenotyping", Fall 2023

Project in Computational Science, 15 ECTS "Enhanced seed phenotyping - A deep-learning based method", Fall 2023

Work as a teaching assistant in following course instances, where duties include supervising labs, holding help sessions, and grading examinations.

Scientific computing 1, 5 ECTS, 2022, instance 2.

Introduction to Scientific Computing, 5 ECTS, 2023 instances 1&2, 2024 instance 2.

Academic Merits

Master thesis project: "Investigating the Spectral Bias of Neural Networks". An investigation and quantification of the phenomenon that in regressions tasks neural networks learn low frequency content of a target function before they learn the high frequency content.

Bachelor thesis project: "Navigation in the Tangential Frame".

KTH merit score: 4.667 (scale is 0.0-5.0)

Upheld a 4.0 GPA (Scale is 0.0-4.0) at Embry- Riddle.

Awarded Dean's List at Embry-Riddle both Fall- 18 and Spring- 19.

Scholarships

Travel grant for International Conference of Quantitative Genetic (ICQG) 2024 from Uddeholms foundation.

Travel grant for Plant and Animal Genome conference (PAG) 2024 from Regnell'l botanical travel grant.

Awarded grants from the "Ingenjör Ernst Johnssons" foundation four times during 2019, 2020, and 2021 for good study merits.

Awarded grant from the "Henrik Göranssons Sandvikens" foundation in 2020 for good study merits.

Publication list

A Computable Definition of the Spectral Bias, J Kiessling, F Thor, Proceedings of the AAAI Conference on Artificial Intelligence 36 (7), 7168-7175