Henrik

MSc Engineering Physics w/ Theoretical Physics

January 25th, 1993

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About Me

I would like to contribute to the realization of a global, sustainable future. Fusion plasma physics is an important potential tool in achieving this. In my everyday life and work life, I always start by greeting people with kindness and respect. I am an open-minded and humble person but can be assertive when needed. I communicate well, both as a speaker and in groups, but also person-to-person. I try to have a scientific approach to problems, emphatic approach to interactions, a curiosity whenever suitable and little bit of playfulness when appropriate.

Skills

MATLAB

Python,Julia

Java

C++

HTML, CSS, JavaScript

French

English,Swedish

Personal Interests

Fusion Plasma Physics, Sustainable Energy, Innovation, Music, Animals & Nature

Education

2019 — Successful Completion — Oxford
Culham Plasma Physics Summer School

2017-2019 — MSc in Engineering Physics, track Theoretical Physics — Stockholm
Royal Institute of Technology, KTH

2015-2017 — Composing & Symphonic Orchestration — Visby
Gotland's School of Music Composition

2012-2019 — Degree in Civilengineering (BSc + MSc) — Stockholm
Royal Institute of Technology, KTH

2009-2012 — High School Degree in Nature Sciences w/ music profilation — Stockholm
Viktor Rydberg Upper Secondary School, VRG

Experience

2019- — PhD Student — Technical University of Denmark, DTU
Position in plasma physics and fusion energy, with the project of performing fast-ion diagnostics using integrated data analysis in 2D and 3D.

2019 — Master's Thesis in Fusion Plasma Physics — Royal Institute of Technology, KTH
ICRF simulations of JET and ITER. Implementations of tensor rotations in the FEMIC code.

2016 — Quality Technician — Crane Currency
Summerjob. Ensured the quality of production with the aid of lab equipment.

2013-2015 — Study Coach — MyAcademy
Taught students at the high school level and provided help with their homeworks in mathematics, physics and chemistry. Well-received with good references.

Other

2020 — Scholarship Holder — Merit
Was awarded a research grant by the Niels Bohr Foundation, to cover travel expenses for my PhD project *MeV-range Ion Orbit Tomography*.

2018 — Treasurer — Organisation
Treasurer at a local tenants association in Stockholm.

2018 — Hack for Sweden — Data Science
Participated in hacking team with the goal of using open data to create innovative IT solutions. Role: producer and pitcher

2013-2014 — Head of Orchestra — Organisation
Led and organized the orchestra in the student musical Fysikalen Kennedy at Fysiksektionen, KTH.

University Courses (selection)

ED2235	Atomic Physics for Fusion
EI1240	Electromagnetic Theory
DD2380	Artificial Intelligence
DD2424	Deep Learning in Data Science
SI1140	Mathematical Methods in Physics
SI2380	Advanced Quantum Mechanics
MJ2411	Renewable Energy Technology

References

Provided upon request.