

PERSONAL INFORMATION

 July 1 1992, Helsinki, Finland
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EDUCATION

2016 – 2020

PhD Astronomy

University of Helsinki

Research under the supervision of prof. Karri Muinonen

2015 – 2016

MSc Theoretical Physics

University of Helsinki

Overall grade 4/5

My MSc thesis, belonging to the field of astronomy, served as the starting point to my PhD research, and as such earned the grade of Laudatur.

2012 – 2015

BSc Theoretical Physics

University of Helsinki

2015 – 2019

Subject teacher

University of Helsinki

Physics, Mathematics, Chemistry and IT up to the secondary level in Finland.

SKILLS

Fortran, Python, Matlab 5+ yrs

Linux, Git, \LaTeX 4+ yrs

Html/CSS, SQL 3+ yrs

LANGUAGE PROFICIENCY

Finnish Native

English Fluent

Swedish Bureaucratese

Japanese Conversational

JOONAS HERRANEN

Curriculum Vitae

VOCATIONAL EXPERIENCE

Doctoral Student

University of Helsinki, Department of Physics

Aug 2016 –

The study of electromagnetic scattering from small space dust particles. Development and testing of a software framework for solving the scattering-dynamical interaction in the dust particles. Application in studying the open problems in dust polarization observations.

Science Instructor

Ursa ry

2014 – 2018

Planning, organisation and execution of intensive tuition of mathematics and physics. Development of intensive education methods.

Research Assistant

University of Helsinki, Department of Physics

Jun – Oct 2015

Theoretical review of the alignment of particles in the interstellar medium. Development of a software framework based on the theory. Development and testing of the software used in the Master's thesis on the subject.

University Trainee

National Defense University, Department of Military Technology

Jun – Oct 2014

Study and data collection of Finnish critical infrastructure. Modeling of the dependencies and fault tolerance of the infrastructure based on the data.

GRANTS AND AWARDS

UH funded salary position for a PhD candidate

University of Helsinki

2017 – 2020

Pro Gradu award exceptional MSc thesis

Faculty of Science, University of Helsinki

2016

Study grant

Student's foundation of Tavastia Nation

2015, 2013

Undergraduate grant

Fund for Mathematics and Natural Sciences

2015, 2013

Bronze medal in the International Chemistry Olympiad

ICHO 2011

2011