Personal information

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Education

2016 - 2020

PhD Astronomy University of Helsinki

2015 - 2016

MSc Theoretical Physics University of Helsinki

2012 - 2015

BSc Theoretical Physics University of Helsinki

Other education

2015 - 2019

Subject teacher

University of Helsinki

Physics, Maths, Chemistry and IT.

Skills

Fortran, Python, Matlab	5+ yrs
Linux, Git, L'TEX	4+ yrs
Html/CSS, SQL	3+ yrs

Language proficiency

Finnish	Native
English	Fluent
Swedish	Bureaucratese
Japanese	Conversational

Joonas Herranen

Curriculum Vitae

Vocational experience

Waveguide designer

Dispelix Oy, Espoo, Finland

Sep 2020 -

Numerical modelling of waveguide elements used in AR elements.

Doctoral Student

2016 - 2020

University of Helsinki, Department of Physics

Study of electromagnetic scattering from space dust grains. Development and testing of a software framework for solving the scattering-dynamical interactions between light and grains. Application in studying open problems in dust polarization observations.

Science Instructor

2014 - 2018

Ursa ry

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

Research Assistant

Jun – Oct 2015

University of Helsinki, Department of Physics

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 a Master's thesis on the subject.

University Trainee

IChO 2011

Jun – Oct 2014

2016

National Defense University, Department of Military Technology

Study and data collection of Finnish critical infrastructure. Dependency and fault tolerance modelling of the infrastructure based on collected data.

Grants and awards

UH funded salary position for a PhD candidate 2017 – 2020
University of Helsinki

Pro Gradu award for an exceptional MSc thesis
Faculty of Science, University of Helsinki

Study grant 2015, 2013
Student's foundation of Tavastia Nation

Undergraduate grant 2015, 2013

Fund for Mathematics and Natural Sciences

Bronze medal in the International Chemistry Olympiad 2011