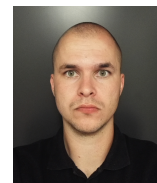


CURRICULUM VITAE

Jesper Byggmästar



Last updated: March 17, 2022

CONTACT INFORMATION

FULL NAME: Jesper Johan Andre Byggmästar
DATE OF BIRTH: 12 April 1991
WORK ADDRESS: P.O. Box 43, 00014 University of Helsinki, Finland
CURRENT POSITION: Postdoctoral Researcher
E-MAIL: jesper.byggmastar@helsinki.fi
PERSONAL HOMEPAGE: <https://jezper.gitlab.io>
ORCID: <https://orcid.org/0000-0002-4898-6150>
GOOGLE SCHOLAR: <https://scholar.google.com/citations?user=w9R6hcIAAAAJ>

EDUCATION

06/2020 PhD, University of Helsinki, Department of Physics
Thesis: *Analytical and machine-learning interatomic potentials for radiation damage in fusion reactor materials* (graded *Pass with distinction*)
<http://urn.fi/URN:ISBN:978-951-51-6035-5>
09/2016 MSc, University of Helsinki, Department of Physics
Thesis: *Development of interatomic potentials in the Tersoff-Albe formalism for metal compounds* (grade 5/5)
<http://urn.fi/URN:NBN:fi-fe2017112252123>
08/2015 BSc, University of Helsinki, Department of Physics
Major: Physics (grade 5/5)
Minors: Theoretical physics (grade 5/5), Mathematics (grade 4/5)

ACADEMIC WORK EXPERIENCE

08/2021– Postdoc, FCAI: Finnish Center for Artificial Intelligence & Department of Physics, University of Helsinki
06/2020–08/2021 Postdoc, Department of Physics, University of Helsinki
09/2016–06/2020 PhD student, Department of Physics, University of Helsinki
2015–2016 Research assistant/MSc student, Department of Physics, University of Helsinki
2014–2015 Summer student/BSc student, Department of Physics, University of Helsinki

TEACHING EXPERIENCE

COURSE LECTURER/ORGANISER:

AUTUMN 2021 Thermodynamiska potentialer (Thermodynamic potentials)
AUTUMN 2021 Academic writing (undergraduate level)

COURSE ASSISTANT:

2017 & 2019 Fasta tillståndets fysik (Solid state physics)
2018 Materialfysik (Materials physics)
2017 Kvantmekanikens tillämpningar II (Applications of quantum mechanics II)
2016 Materialfysik I+II (Materials physics I+II)
2015 Strålningsfält och fotoner (Radiation fields and photons)
2014–16 Materiens struktur (The structure of matter)

LANGUAGE SKILLS

SWEDISH	Mother tongue
ENGLISH	Fluent
FINNISH	Conversational

COMPUTER SKILLS

General:

UNIX
Python (NumPy, SciPy, Matplotlib, etc.)
Fortran
L^AT_EX
Git
C++ (basics)
SLURM & high-performance computing

Physics:

Molecular dynamics (LAMMPS, PARCAS)
Density functional theory (VASP)
ASE: the atomic simulation environment

LIST OF PUBLICATIONS

<https://orcid.org/0000-0002-4898-6150>
<https://scholar.google.com/citations?user=w9R6hcIAAAAJ>
<https://jezper.gitlab.io/pages/publications.html>