

Lara Ulčakar

Physicist



Birth:

Ljubljana, 14/12/1992

Contact

Email:

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Webpage:

<http://www-f1.ijs.si/~lara/>

Languages

Slovenian

Native proficiency

English

Full professional proficiency

German

Professional working proficiency

Russian

Limited working proficiency

Interests

- Physics
- Mountaineering
- Languages
- Books, film and music
- Travelling and networking

Work Experience

Data engineer: BE-terna

12/2020 - present

- Development of large scale data architectures
- Analyzing and visualizing large data sets
- Working with clients

Early stage researcher: Jožef Stefan Institute

Student work: 8/2014 - 8/2016, PhD: 10/2016 - 11/2020,

Research associate: 1/2022 - present

- Theoretical work on quantum computing, topological insulators and electric properties of nanojunctions
- Numerical simulations
- Data analysis
- Analytical derivations
- Data representation, writing scientific papers
- Supervision of a master student

Teaching assistant: Faculty of Mathematics and Physics

2/2017 - 9/2020

- Exercises from Classical mechanics, 50 students
- Organization of exams

Education

BSc in Physics: Faculty of Mathematics and Physics -

Ljubljana, 10/2011 - 9/2014

MSc in Physics: Faculty of Mathematics and Physics -

Ljubljana, 10/2014 - 9/2016

PhD in Physics: Faculty of Mathematics and Physics -

Ljubljana, 10/2016 - 11/2020

Skill highlights

- Physics
- Mathematics
- Python and C
- SQL and Qlik
- Mathematical and statistical data modelling
- Pedagogy
- Teamwork and people management
- LaTeX
- Slurm based computing clusters

Awards

- L'Oreal-UNESCO award for women in science
- Prešeren prize for outstanding master thesis