

# Luca Ferranti

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*My mission in life is not merely to survive, but to thrive; and to do so with some passion, some compassion, some humor, and some style. – Maya Angelou*

## Education

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**PhD Computer Science**, UNIVERSITY OF VAASA, FINLAND 2020 – 2024  
GPA: 5.0/5.0, Computational methods for fast and reliable positioning

**M.Sc. Electrical Engineering (with distinction)**, TAMPERE UNIVERSITY, FINLAND 2018 – 2019  
GPA: 4.91/5.0, Signal Processing, Machine Learning, Telecommunications. Thesis on Computer Vision (grade: 5/5)

**B.Sc. Electrical Engineering (with distinction)**, TAMPERE UNIVERSITY, FINLAND 2015 – 2018  
GPA: 4.82/5.0, Electronics, RF Engineering, Physics

## Experience

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**Julia Software Developer**, PLANTING SPACE, SELF EMPLOYED SEP 2022 –  
knowledge representation and automated reasoning algorithms • general software maintenance • mentoring new joiners in using Julia

**Project Manager**, UNIVERSITY OF VAASA, FINLAND JAN 2020 –  
**Research** on novel algorithms for positioning • **Teaching** 2 graduate courses and supervised one master thesis •  
**Project manager** of *incubate*, 20 researchers in 4 institutions. (since Sep. 2021)

**Google Summer of Code**, THE JULIA LANGUAGE JUN 2021 – SEP 2021, JUN 2022 – SEP 2022  
Contributed to *JuliaIntervals* and *JuliaReach*, wrote code, documentation and tests, setup CI pipelines.

**Research Assistant**, TAMPERE UNIVERSITY MAY 2017 – DEC 2019  
various positions: geometric computer vision algorithms • GPU programming for image denoising • Numerical modelling of superconductors • Main teaching assistant in 2 undergraduate classes.

## Open-Source Highlights

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- **FuzzyLogic.jl** 📄: Library for building fuzzy inference systems.
- **JuliaIntervals organization (Aug 2020 –)**: maintainer with 3 other people • developed documentation and [webpage](#) • main organizer of the [JuliaIntervals JuliaReach Days 3](#) conference, 50+ participants
- **IntervalLinearAlgebra.jl** 📄: Package for numerical linear algebra with interval arithmetic ([talk1](#), [talk2](#))
- **GeometricTheoremProver.jl** 📄: Automated theorem prover in Julia for Euclidean geometry ([talk](#))

## Skills

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- **Programming:** Julia • Python • Matlab • C/C++ • Haskell • SQL • HTML/CSS • JavaScript
- **Tools:** Git • Bash • Make • DevOps: Docker, Github Actions, GitlabCI • Agile Methodologies (Kanban/Scrum)
- **Soft:** Public speaking • Teaching/Mentoring • Open-source community building and development

## Volunteering

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- **Julia Users Helsinki:** I started this community to bring together Julia enthusiasts in Helsinki area. I organize events, give tutorials about Julia and disseminate our activities. [julia-users-helsinki.github.io](#)
- **Nordic-RSE:** Board member (since Sep 2021), Co-organizer of [Nordic-RSE Seminar Series](#) and other activities to support Research Software Engineers in the Nordics. Taught [workshop](#) about package development in Julia.
- **Carpentries Instructor (May 2021 –)**: Teaching programming and good coding practices to researchers with [The Carpentries](#).

## Awards

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- **2021 Nokia Foundation:** 6000€ award for fast-forwarding PhD students
- **2022 Finnish foundation for technology promotion:** 5000€ award for fast-forwarding PhD students