

Personal Details

Address (work): Department of Geosciences and Geography
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Date of birth: 26th of June 1985
Nationality: Finnish

Education

- 2011-2015 PhD, geological sciences (EU Marie Curie FP7 ITN 'Topomod' Fellow). Department of Earth Sciences, Durham University, Durham, United Kingdom.
- 2010-2011 Master of Science, geology. University of Helsinki, Department of Geosciences and Geography. Major: geochemistry and hydrogeology. Minor: geophysics, chemistry, archaeology. Master's thesis: "Thermal modelling of the Svecofennian orogeny overthrust on the Archaean craton of Eastern Finland " (in Finnish) (grade *eximia cum laude approbatur*).
- 2005-2010 Bachelor of Science. Bachelor's thesis "Estimating the spatial distribution of Strontium isotope ratios ($^{87}\text{Sr}/^{86}\text{Sr}$) in Finland's Precambrian " (grade 5/5).
- 2004-2005 Sub-officer (reservist, 12 months military service), telecommunications mechanic, Viesti- ja sähkötekkinen koulu (Army School of Signals), Riihimäki. Service included 5 months of practical training in installing and servicing telecommunications networks in the 1st Teleinformatics Center, main headquarters, Helsinki.
- 2001-2004 Matriculation examination, Helsingin matematiikkalukio (Helsinki high school of mathematics)

Employment history

- 2015- Postdoctoral researcher, University of Helsinki, Department of Geosciences and Geography. Research on 3D numerical models of orogenic growth.
- 2009-2011 Institute of Seismology, University of Helsinki. Research assistant. Identification and analysis of the daily regional seismic events / assisting in institute's research.
- 2004-2008 Occasional substitute teacher in high school and upper secondary (mainly in mathematics, physics and Finnish language) at Maunulan yhteiskoulu ja Helsingin matematiikkalukio. Approximately 250 hours in total.
- 2001-2008 IT trainee at Andritz Oy (former Andritz-Ahlstrom Oy). By fixed-term contracts (total of 20 months) and as part-time employee. Duties included IT support and intranet/database application programming.

Language proficiency

Finnish	Native	German	Fair, reading satisfactory
English	Excellent	Latin	Fair comprehension in reading
Swedish	Good		

Peer-reviewed scientific publications

- Mayne M., Moya J.-F., Stevens G., **Kaislaniemi, L.**, 2016. Rcrust: a tool for calculating path-dependent open system processes and application to melt loss. *Journal of Metamorphic Geology*, 34, 663-682.
- Bouilhol P., Magni V., van Hunen J., **Kaislaniemi L.**, 2015. A numerical approach to melting in warm subduction zones. *Earth and Planetary Science Letters*, 411, 37-44.
- Kaislaniemi L.**, van Hunen J., 2014. Dynamics of lithospheric thinning and mantle melting by edge-driven convection: Application to Moroccan Atlas mountains. *Geochemistry, Geophysics, Geosystems*, 15, 3175-3189.
- Kaislaniemi L.**, van Hunen J., Allen M. B., Neill, I., 2014. Sub-lithospheric small scale convection – a process for continental collision magmatism. *Geology*, 42 (4), 291-294.
- Kaislaniemi L.**, 2011. Estimating the spatial distribution of strontium isotope ratios ($^{87}\text{Sr}/^{86}\text{Sr}$) in Finland's Precambrian. *Bulletin of the Geological Society of Finland*, 83, 95-113.

Popular science articles

- Kaislaniemi L., 2014. Geodynaaminen mallinnus: yhtälöistä kiviäytteisiin [in Finnish]. *Geologi*, 3/2014. Geological Society of Finland.

Invited talks

- 14.3.2011 "Estimating the spatial distribution of Strontium isotope ratios in Finland's Precambrian and its use in provenance studies". FinnARCH project workshop, Turku.

Teaching experience

University of Helsinki:

- 01/2017 Lecturer at short course "Introduction to lithospheric geodynamic modelling"
- 09-11/2016 Lecturer at introductory geology course "Dynaaminen maa I" (Dynamic Earth I)
- 01/2016 Lecturer at short course "Introduction to lithospheric geodynamic modelling"
- 09-11/2015 Lecturer at introductory geology course "Dynaaminen maa I" (Dynamic Earth I)

- 2014 Excellence in Demonstrating prize (Excellence in Demonstrating in the field, £100) by the Department of Earth Sciences, University of Durham.

University of Durham:

- 05/2015 Teacher, fourth year student field course, southwestern U.S.A.
- 05/2014 Teacher, fourth year student field course, southwestern U.S.A.
- 2013-2014 Demonstrator (course assistant), "Modelling Earth Processes"
- 2013 Demonstrator (course assistant), "Earth Structure and Dynamics"
- 2012-2013 Demonstrator (course assistant), "Modelling Earth Processes"
- 2011-2012 Demonstrator (course assistant), "Modelling Earth Processes"

Field work

Driver's license: European Union category B.

- 2010-07-26 ... Western Uusimaa Complex, southern Finland, structural and lithological field study on granulites, migmatites and shear zones by Taija Torvela (Univ. Aberdeen) and Annakaisa Korja (Univ. Helsinki). Assistant, Institute of Seismology, University of Helsinki.

Other education

- 18.-22.3.2013 Short course: "Numerical Modelling and Analysis of Surface Processes". Institute of Earth Sciences, Johannes-Gutenberg University of Mainz, Germany.

- 5.-6.11.2012 Short course: "Laboratory modeling of geodynamic processes". Laboratory of Experimental Tectonics, Dep. Geology Univ. "Roma TRE".
- 18.-23.6.2012 Short course: "Lithosphere deformation: theory, practice and field work", in Thassos, Greece. University of Utrecht, Faculty of Geosciences.
- 26.-30.3.2012 Short course: "The deep contribution to formation of ranges, basins and landscape evolution". Institut De Ciències De La Terra Jaume Almera, Barcelona.
- 23.-27.1.2012 Short course: "From earthquakes to mountains: Short to longterm lithosphere dynamics", Helmholtz Centre Potsdam, German Research Center for Geosciences, Potsdam.

Personal interests and other professional skills

– Programming:

Proficient in wide range of programming languages, such as **C**, **Python(**)**, **R**, **Perl** and **Fortran 90**, learned during studies, via job experience and in personal projects. **Parallel computing** (MPI). **Git** version control system.

– System administration:

Work experience in administration of **Windows Server** and Domain environment; personal interest and job experience in Unix (**Linux**) administration: **web/DNS/e-mail** servers, maintenance of **high-performance computing cluster** hardware and software. **SQL databases**.

– Maps:

GIS software, e.g. QGIS, GRASS, PostGIS. Web based tools for GIS(**).

– Electronics:

Personal projects, building microcontroller (Arduino) based devices. Experience in building and maintaining Ethernet and optical fibre networks.

– Other hobbies:

Cycling, sport **fencing**, **sailing**.

(**) Sample projects:

– [PyLamp](https://github.com/larskaislaniemi/PyLamp) – a finite difference python code for mantle convection modelling (https://github.com/larskaislaniemi/PyLamp)

– meri.kaislaniemi.net – a web interface to a database of vector marine chart data, using **JavaScript**, **nginx** web server, and **PostgreSQL** database (http://meri.kaislaniemi.net)