



## 1. Personal details

Dr. Laura Irmeli Riuttanen (formerly Korhonen)  
Born Oct 1984 in Espoo, Finland  
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## 2. Profile

I am a postdoctoral researcher at the University of Helsinki, Institute for Atmospheric and Earth System Research INAR. I lead Climate University, collaboration project of 11 universities to foster climate change and sustainability education in Finland. In collaboration with several universities, I have coordinated the production of the multidisciplinary online courses Climate.now and Leadership for Sustainable Change, and initiated many more. Additionally, I work for communications and societal relations of INAR and have been a public speaker and educator on climate change in many occasions. As a position of trust, I chair the expert working group on energy and climate strategy of the Evangelical Lutheran Church of Finland. Collaboration is the key to solve the climate change challenge!

## 3. Work experience

2017-: Postdoctoral researcher at the University of Helsinki, Institute for Atmospheric and Earth System Research INAR.

- Coordinator of climate change education (Climate University, Climate.now, Leadership for Sustainable Change, Circular.now, Climate-KIC Journey, Nordplus online education).
- Coordinator of University of Helsinki contribution to EMME-CARE research project (<http://emme-care.cyi.ac.cy/>), PI on education and training.
- Lecturer at several courses.
- Community relations and event organizer: INAR Climate Festival (5/2018), Copernicus AtmosHack – Hack the atmosphere (11/2018), Climate University kick-off (11/2018).

2009-2017: Ph.D. Student at the University of Helsinki, Department of Physics.

- 2015-2017: Coordinator of Climate.now education project ([www.climatenow.fi](http://www.climatenow.fi)).
- 2014-2015: Coordinator of a Sino-Finnish air quality education (*Air Quality in a Changing World*).
- 2011-2015: Coordinator of continuing education projects in collaboration with Palmenia Center of Continuing Education.
- 2009-2011: On parental leave.
- 2009: Assistant of meteorology.

2005-2008: Summer student and research assistant at the University of Helsinki, Department of Physics. Working also for ILEAPS-office in Helsinki.

- 2007-2008: On parental leave.

## 4. Education

Doctor of Philosophy 12.10.2017, Department of Physics, University of Helsinki, Finland.

- Major studies in meteorology.
- Ph. D. thesis: “Air pollutants: regional transport, properties and effect on upper tropospheric humidity”.

Master of Science 23.1.2009, Department of Physics, University of Helsinki, Finland.

- Major studies in meteorology and complementary studies in physics and theoretical physics.
- M. Sc. thesis: “Effect of biomass burning emissions on atmospheric composition in Finland in 2006”.

Bachelor of Science 23.1.2009, Department of Physics, University of Helsinki, Finland.

Matriculation Examination 31.5.2003, Tapiolan lukio, Espoo, Finland.

## **5. Funding**

2018: Ministry of education and culture Finland (900 000 EUR); Finnish Innovation Fund Sitra (130 000 EUR); Finnish Innovation Fund Sitra (150 000 EUR); Nordplus (38 000 EUR, with A. Lauri); University of Helsinki (30 000 EUR); EIT Climate-KIC (50 000 EUR)

2017: Finnish Innovation Fund Sitra (30 000 EUR)

2016: Finnish Innovation Fund Sitra (7 500 EUR)

2015: Finnish Innovation Fund Sitra (150 000 EUR)

## **6. Teaching experience**

Lecturing 'Leadership for sustainable change' (2018)

One of the lecturers at 'Think like a forest – integrating art, science and activism in a time of a climate crisis' (2018).

One of the lecturers at 'Effects of climate change on Arctic livelihoods and living conditions' (2018).

Lecturing 'Climate change now' (2016, 2017, 2018).

Lecturing 'Basics of Climatology (2016, 2017) and 'Physical Climatology' (2015-2017).

One of the lecturers at 'Air quality in a changing world – a look on China' (2017-2018).

One of the lecturers at 'Introduction to Modern Atmospheric Science' (2014-2016).

Lecturing 'Basics of Meteorology' (2009).

Teaching assistant at several meteorology courses (2006-2014).

University pedagogics, 10 cr, completed at the University of Helsinki in 2012.

Teaching with Technology, 3 cr, University of Helsinki, 2016.

## **7. Supervising experience**

Martikainen, Jyrki: M. Sc. thesis, 2018-

Latvala, Anna: B. Sc. thesis, 2014.

Hulkkonen, Mira: M. Sc. thesis, 2010.

## **8. Language and IT skills**

Finnish: native; English: excellent; German and Swedish: good; French: basics.

Programming: Matlab: excellent.

IT skills: Microsoft Office: excellent.

## **9. Positions of trust**

- Chairman of the expert group on energy and climate strategy of the Evangelical Lutheran Church of Finland (2018-2019).
- Digitalization, network and communication education manager, Master's Programme in Atmospheric Sciences, University of Helsinki. (2017-)
- Vice member of the steering group of the Masters' Programme in Atmospheric Sciences. (2016-)
- Member of the board of Environmental Questions at the Evangelical Lutheran Church of Finland. (2011-2014; 2015-2018; 2019-)

## 10. Main peer-reviewed publications

- Lehtonen, A., Salonen, A., Cantell H. and **Riuttanen L.**: A pedagogy of interconnectedness for encountering climate change as a wicked sustainability problem. *Journal of cleaner production*, 199, pp. 860-867, 2018.
- Ruuskanen T., Vehkamäki, H., **Riuttanen, L.** and Lauri A.: An Exploratory Study of the Learning of Transferable Skills in a Research-Oriented Intensive Course in Atmospheric Sciences. *Sustainability*, 10(5), 1385, 2018.
- **Riuttanen, L.** et al. Observational evidence for aerosols increasing upper tropospheric humidity. *Atmospheric Chemistry and Physics*, 16, 14331-14342, 2016.
- Leino, K., **Riuttanen, L.** et al.: Biomass-burning smoke episodes in Finland from eastern European wildfires. *Boreal Env. Res.* 19 (suppl. B), 275-292, 2014.
- Juurola, E., et al.: Knowledge transfer of climate-ecosystem-interactions between science and society — Introducing the Climate Whirl concept. *Boreal Env. Res.* 19 (suppl. B), 406-411, 2014.
- **Riuttanen, L.**, Hulkkonen, M., Dal Maso, M., Junninen, H. and Kulmala, M.: Trajectory analysis of atmospheric transport of fine particles, SO<sub>2</sub>, NO<sub>x</sub> and O<sub>3</sub> to the SMEAR II station in Finland in 1996-2008, *Atmospheric Chemistry and Physics*, 13, 2153–2164, 2013.

## 11. Public speeches in 2017-2019

- 2019: Ilmastoviisas Salo 1/2019; Kirkon sosiaalietiikan foorumi 1/2019; Sitra Erätauko 1/2019; Hautausmaahallinnon neuvottelupäivät 2/2019
- 9 public speeches in 2018: Kansallisteatterin Lavaklubi, 1/2018; Vesi kertoo 3/2018; Herttoniemen lukio 3/2018; INAR Climate festival 5/2018; Kirkon ympäristöpäivät 9/2018; Tapiolan seurakunta 11/2018; Climate University kick-off 11/2018; AIESEC Talks 12/2018; HY Tiedekasvatuskeskus 12/2018
- 16 public speeches in 2017

## 12. Other activities

2016-: Member of the board of a scout local group Espoon Leppäversot ry. Scout Leader for 10-12 years old children. Chief program manager.

2017-2018: Part of *Pohjoinen vesi* science-art collaboration.

2017: One of the main organisers of Science March Helsinki (Tiedemarssi).

2017: Member of the organisation committee of Power Shift Suomi 2017.

2013-: Member of the Arena of Values (Arvojen Areena) of the archbishop Kari Mäkinen, a forum of young future makers from all fields of the Finnish society.

2013-: Initiator and coordinator of Science and Theology Dialogue Forum Finland.

## 13. Contact details

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