

Curriculum Vitae

May 2, 2018

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|----|--------------------------------|---|
| 1. | Name | Marjo Linnea Helander (female) |
| 2. | Date and place of birth | March 26, 1964, Alastaro, Finland |
| | Citizenship | Finnish |
| | Marital status | married, three children |
| | Home address | Kauppiaskatu 15 A 6, 20100 Turku, Finland |

3. Education and degrees awarded

Title of Docent in "Fungal Ecology", 1997, University of Turku

Post-doctoral 1995-1997, Arizona State University, USA

- Advisor Prof. Stan Faeth

PhD 1994, University of Turku, Department of Botany

Doctoral thesis: '*Responses of foliar microfungi to air pollution*'

Licentiate in Philosophy, 1993, University of Turku

Master of Science, 1988, University of Turku

4. Other education

5. Languages

Finnish mother tongue

English excellent

Swedish good

6. Current position

- Researcher, Section of Ecology, University of Turku: 1.6.2000- present (permanent position)

7. Previous work experience

- OECD Fellowship to University of Kentucky, USA, 2014 (6 months)
- Senior Researcher (10 % workload), Natural Resources Institute Finland (Luke) 2015-2016 and Agrifood Research Finland (MTT) 2014
- Academy Research Fellow Post, 2006-2007 (12 months)
- Senior Researcher, 2005 (4 months), Agrifood Research Finland (MTT)

- Academy Research Fellow Post, 2005 (7 months)
 - Researcher, Aerobiology Unit, University of Turku: 1997-2000
 - Post-doctoral research scholar, Arizona State University, (Maytag fellowship, University of Arizona and Academy of Finland): 1995-1997 (18 months)
 - Researcher, Aerobiology Unit, University of Turku: 1995 (11 months)
 - Research assistant, Academy of Finland: 1991-1994 (3 years)
 - Research assistant, Aerobiology Unit, University of Turku: 1988-1991
 - Researcher in project "Effects of acid rain on microfungi", University of Turku, funded by Maj & Tor Nessling Foundation: 1987 (7 months), 1988 (7 months)
 - Research assistant, Kevo Subarctic Research Station: 1986 (2 months)
- Maternal leaves 1993 (6 months), 1998 (8 months), 1999 (10 months)

8. Research funding, leadership and supervision

In addition to the below mentioned research money, I have been involved in preparing and co-leading several Academy of Finland funded research projects with Prof. Kari Saikkonen 1998-2016.

- Academy of Finland, 2017-2021, 'Effects of glyphosate on non-target organisms', 515 042 €
- INTERACT Transnational Access grant, project FESTUCA, 2017, 11 800 €
- Kylvösiemensäätiö, 2017, 10 500 €
- Finnish Cultural Foundation, 2016, 'MicroGrowth-project', 50 000 €
- Turku University Foundation, 2015, 'Tree-line gardens', 11 700 €
- OECD Fellowship to University of Kentucky, USA, 2014, fall 2014
- INTERACT Transnational Access grant, project FESTUCA, 2014, 7600 €
- COST Action RSTSM, travel grant to Argentina, 2013, 2 500 €
- INTERACT Transnational Access grant, project FESTUCA, 2013, 7800 €
- Turku University Foundation, project 'Glyphosates in northern ecosystems', 2012, 3000 €
- Turku University Foundation, project 'Effects of grass endophytes on herbivores' 2008, 8 000 €
- Oskar Öflunds Stiftelse 2008, 3 000 €
- Academy of Finland, Academy Research Fellow Post associated money, 2006-07, 11 300 €
- Academy of Finland, Academy Research Fellow Post associated money, 2005, 7 200 €
- Turku University Foundation 'Tall fescue experiment', 2004, 6 500 €
- Academy of Finland, project 'Fungal endophyte mediated trophic interactions: from ecology to applications' 2002-2004 (827 000 mk)
- Turku University Foundation, project 'Effects of grass endophytes on herbivores' 2001

- Academy of Finland, project “Genetic diversity of fungal endophytes” 1998-2000 (840 000 mk)
- Turku University Foundation, project “Ecology of fungal endophytes in grasses” 1998
- Maytag scholarship, Arizona State University 1995-1996
- Academy of Finland, Post-doctoral, Arizona State University 1995-1997.
- Wihuri Foundation, “Effects of air pollution on allergenicity of birch pollen” 1995
- Johansson Foundation, “Effects of air pollution on allergenicity of birch pollen” 1994.
- Finnish Allergy Research Association “Effects of air pollution on allergenicity of birch pollen” 1994.
- Academy of Finland. “Interactions of microfungi, air pollution and pathogenic fungi on forest trees” 1991-94

Supervised post-docs

FT Miia Kauppinen 2017-2018

Dr. Cyd Hamilton (USA) 2011-2012

Dr. Pedro Gundel (Argentina) 2011-2013

9. Merits in teaching and pedagogical competence

- ‘Plant organology’, responsible teacher 2017
- ‘Ecological laboratory experiments’, responsible teacher, yearly 2008-2016 (5 study points)
- ‘Aquatic ecology’ (fresh water), field course 2015
- ‘Terrestrial botany’, field course, 1 week, 2010
- ‘Agroecology and –evolution’, responsible teacher, 2008, 2010, 2012, 2014 (5-10 study points)
- ‘Ecological interactions’, responsible teacher, 2001, 2002, 2005

Supervised doctoral dissertations

1. Elamo, Pirjo: *Birch rust and endophytic fungi in birch leaves: Effects of host plant genetic background and environmental factors*. 2000.
2. Ahlholm, Jouni: *Responses of foliar fungi and herbivores to host plant genotype and environmental factors*. 2003.
3. Lehtonen Päivi: *Fungal endophyte mediated trophic interactions in grasses: from ecology to applications*. 2006.
4. Wäli, Piippa: *Environment and genetic background affecting endophyte-grass symbiosis*. 2006.
5. Saari, Susanna: *Grass endophyte in food chain – friend or foe?* 2010.
6. Dirihan, Serdar: *Co-evolution of grasses with their endophytes*. 2016.

- Supervised Master’s thesis 15, on-going 5

- Supervising numerous undergraduate projects 2000-2018

10. Awards, prizes and honours

11. Other scientific merits

- Co-referee for Doctoral Thesis (2017, ETHZ, Switzerland)
- Evaluation of Docentship (2015, University of Oulu)
- Pre-examiner of Doctoral Thesis (2014, University of Helsinki)
- Pre-examiner of Doctoral Thesis (2009, University of Helsinki)
- Evaluation for Docentship (2009, University of Oulu)
- Pre-examiner of Doctoral Thesis (2003, University of Joensuu)
- Opponent of Doctoral Thesis (2002, University of Helsinki)
- Opponent of Licentiate thesis (1995, University of Helsinki)
- Vice-member of COST Action FA1103, 'Endophytes in Biotechnology and Agriculture' (2012-2015)
- Vice-member of COST Action FA1405, 'Using three-way interactions between plants, microbes and arthropods to enhance crop protection and production', 2015-
- 1-3 oral and/or poster presentations in seminars and international congresses yearly

External reviews

- ETHZ Grants, Switzerland (2016)
- Czech Science Foundation (2016)
- Leverhulme Trust, UK (2015)
- New Zealand Ministry of Business, Innovation & Employment (2012, 2014, 2015, 2016)
- Finnish Forest Research Institute, Finland (2006, 2008, 2009, 2012, 2013)
- National Science Foundation, USA (2004, 2005, 2006, 2008)
- Referee for 5-15 scientific manuscripts yearly

Web of Science 02.05.2018: 80 publications, 2785 citations, h-index 27

12. Societal impact of research

- 14 articles (in Finnish) in publications intended for the general public, linked to the applicant's research. These include book chapters in 'Fungal Biology' and 'Plants in Nature'.
- Active participating on public discussion on risks and benefits of GMO's, glyphosate use in Finnish agricultural systems, and pros and cons of systemic endophytes of grasses in agricultural systems. These include radio and TV interviews, several articles and notes on newspapers.