

## CURRICULUM VITAE 3.1.2018

Laine (former Pietilä), Anu Tuulikki

### 1. Education and degrees awarded

- Master of Arts (education) 21.12.1993, University of Helsinki
- Doctor of Philosophy (education) 16.4.2002, University of Helsinki
- Docent in mathematics education, 27.2.2004, University of Helsinki

### 2. Other education and training, qualifications and skills

- Master level studies in mathematics 142 ECTS: qualification for acting as a subject teacher in lower and upper secondary school (grades 7-12), 11.10.1995, University of Helsinki
- Studies in special education, 40 ECTS, University of Helsinki

### 3. Linguistic skills

- mother tongue: Finnish
- other languages: English: good, Swedish: good, German: satisfactory

### 4. Current position

- University lecturer in mathematics education (Faculty of Educational Sciences, University of Helsinki, a permanent position since 1.8.2002)
- Vice dean (academic affairs, Faculty of Educational Sciences, University of Helsinki)

### 5. Previous work experience

- post-doctoral researcher in a project on Pre-service elementary teachers' views of mathematics funded by the Academy of Finland (#8201695) 1.8.2003-22.8.2004
- assistant in mathematics education, 2000-2002, University of Helsinki
- lecturer in mathematics education, 1998-2000, University of Helsinki
- elementary school teacher, grades 1-6, also mathematics lessons for grades 7-9, school years 1993-1998, Helsinki, Finland
- On maternity and unpaid maternity leave 23.8.2004-30.6.2009

### 6. Research and international research groups

- 103 publications (91 scientific), see TUHAT database (<https://tuhat.helsinki.fi/portal/fi/person/atpietil>)
- main research areas: affects, learning and problem solving in mathematics education, teacher change
- FMK (Fundamental mathematical knowledge): partners from Autonomous University of Barcelona, University of Lindköping and Oxford Brookes University
- MathMot (Motivation in mathematics): partners from University of Oslo, University of Lisbon (ISPA), University of Belgrade, University of Tartu
- Curriculum materials in mathematics education: partners from Uppsala University, Mälardalen University and Åbo Akademi University

### 7. Research and other funding

- Co-author in the preparation of 2 successful funding applications (Erkki Pehkonen: Academy of Finland projects (2003-2006) Pre-service elementary teachers' views of mathematics and project (2010-2013) Open problems in developing mathematical understanding and problem-solving skills
- PI for Luma-Finland project 'Understanding for problem solving' (Ymmärrystä ongelmanratkaisuun), funded by Ministry of Education and Culture, 60 000 euros for years 2014-2016 and 75 000 euros for years 2017-2019.
- PI for subproject 'ThinkMath materials in teacher education' in consortium project To the world of mathematics (Matematiikan maailmaan), PI Minna Hannula-Sormunen, funded by Ministry of Education and Culture, own funding 62 975 euros for years 2017-2020.
- PI for subproject 'OVET2' in consortium project Admission procedure in teacher education (Opettajankoulutuksen valinnat – ennakoivaa tulevaisuustyötä), PI Anu Warinkoski, funded by Ministry of Education and Culture, own funding 75 953 euros for years 2017-2020.

### 8. Supervision of doctoral students

Jari Lakka, graduated 2014 (main supervisor)

Laura Tuohilampi, graduated 2016 (secondary supervisor)

Emmanuel Bofah, graduated 2016 (secondary supervisor)

Six doctoral students (Eeva Haataja, Maria Holm, Susanna Oksanen, Jessica Salminen-Saari, Anne Tossavainen and Inka Väärtinen) in progress.

### 9. Merits in teaching and pedagogical competence

• pedagogical competence and training:

- Master of Arts (Education) degree includes pedagogical studies 60 ECTS which give qualification for acting as a teacher in all levels (from pre-school to university)

- Studies in special education (so far 40 ECTS)

•involvement in curriculum planning:

As the head of elementary teacher education I am responsible for the whole curriculum and its development. In addition, I am responsible for all the mathematics education courses in elementary teacher education.

•implementation of courses:

-mathematics education, 7 ECTS, since 1998, yearly about 150 students.

-bachelor and master thesis seminars, since 2009

-PhD seminar, since 2009, together with prof Markku Hannula

-supervision of teaching practice

-optional mathematics education course, 5 ECTS

•supervision of thesis:

-main supervisor of 40 master thesis during years 2011-2017

-main supervisor of over 30 bachelor's thesis during years 2010-2017

10.Awards, prizes and honours

•Member of Teachers' Academy at the University of Helsinki since 2014.

•The Good Teacher (Hyvä opettaja) - Magister bonus prize of the Student union of the University of Helsinki (HYY), 2002

•Honorable mention in learning technology competition, University of Helsinki, 2002

11.Other academic merits

•Invited to be an opponent in Norway, University of Agder, 6.4.2018

•Opponent of a doctoral dissertation, 2016, University on Lapland: Sirkku Korkat

•Opponent of a doctoral dissertation, 2014, University of Oulu: Sonja Lutovac

•Pre-examiner of a doctoral dissertation, 2017, Åbo Akademi University: Ann-Sofi Røj-Lindberg

•Pre-examiner of a doctoral dissertation, 2017, Åbo Akademi University: Ulrika Ekstam

•Pre-examiner of a doctoral dissertation, 2015, Lappeenranta University of Technology: Päivi Porras: "Utilising student profiles in math course arrangements"

•Member of the evaluation committee of a doctoral dissertation, 2017, University of Helsinki: Johanna Lammi

•Member of the evaluation committee of a doctoral dissertation, 2016, University of Helsinki: Rauno Koskinen

•Member of the evaluation committee of a doctoral dissertation, 2015, University of Helsinki: Ilari Kärki

•Member of the evaluation committee of a doctoral dissertation, 2012, University of Helsinki:Sanna Patrikainen

•Examinator of lisensiate thesis, 2010, University of Turku: Eija Väisänen

•External Evaluation of ACTTEA Project, EU, 2015

•member of editorial board of LUMAT-journal

•referee for international and national journals (International Journal for Mathematics and Science Education, Nordic Mathematics Education, Journal for European Teacher Education network, LUMAT, Ammattikasvatuksen aikakauskirja)

•member/chair of the program and organizing committee of two international (ProMath 2014 and MAVI 2012) and two national conferences

•Vice dean (academic affairs) since 1.1.2018

•Vice director of Faculty's Bachelor Degree programme, year 2017

•Head of elementary teacher education programme, 2011-2017 (Elementary teacher education is the biggest education at our faculty, 700 students).

•Chair of Faculty's student selection committee, since 1.8.2017

•Chair of Department's teaching practice committee, 2011-2016

•Chair of Student selection committee for elementary and kindergarten teacher students 2011-2016

•Member of Faculty's teaching assessment committee, years 2010-2013

•Member of Faculty's teaching practice school's advisory board, years 2011-2013

•Member of Faculty's subject teacher education's advisory board, years 2010-2013

•Representative of the University of Helsinki in VAKAVA group (The national selection cooperation network in the field of education), academic years 2011-2012 and 2012-2013

12.Positions of trust in society and other societal merits

•National Board of Education: member of the working group for planning the basic curriculum in mathematics for grades 1-9, year 2014

•National Board of Education: member of a working group for planning national learning evaluation for 6th graders in mathematics, year 2000

•Member (secretary and treasurer) of the executive board of the Finnish Research Association for Subject Didactics, years 2011-2012

•Leader of in-service training for elementary teachers in mathematics for years 2014-2016 and 2017-2020 (part of larger LuMa Suomi in-service training program, financed by the Ministry of Education and Culture)

•Member of the editorial board of the journal of the Finnish association of the teachers of mathematics, physics and chemistry, Dimensio, years 2000-2004