

Curriculum vitae

Updated 22.01.2016

Full name

- Hannula, Markku Sakari
- male

Date and place of birth, nationality, current residence

- 1964-01-24, Uusikaupunki, Finland
- Citizen of Finland
- Hietalahdenkatu 5 A 6, 00180 Helsinki

Education and degrees awarded

- PhD, University of Turku (Education), 2004-08-01
- M.Sc., University of Helsinki, Mathematics (teacher) 1996
- Matriculation examination, 1982-05
- Title of a docent. Field: Mathematics education. University of Helsinki, Faculty of Behavioural Sciences. 2006-02-16

Linguistic skills

- Mother tongue Finnish
- English: Listening (Proficient C2), Reading (Proficient C2), Spoken interaction (Proficient C2), Spoken production (Proficient C2) and Writing (Proficient C2)
- Swedish: Listening (Independent B2), Reading (Independent B2), Spoken interaction (Independent B2), Spoken production (Independent B2) and Writing (Independent B1)
- German: Listening (Independent B1), Reading (Independent B2), Spoken interaction (Independent B1), Spoken production (Independent B1) and Writing (Independent B1)
- Estonian: Listening (Independent B2), Reading (Independent B2), Spoken interaction (Independent B2), Spoken production (Independent B2) and Writing (Independent B2)
- Norwegian: Listening (Independent B2), Reading (Independent B2), Spoken interaction (Independent B2), Spoken production (Independent B1) and Writing (Independent B1)

Current position

- Professor of Mathematics Education

- University of Helsinki, Department of Teacher Education
- 1.8.2009 –

Previous work experience

- Professor of Mathematics and Science Education
- University of Turku, Department of Teacher Education
- 15.8.2008-31.7.2009

- University lecturer in mathematics and computer science education
- University of Helsinki, Department of applied sciences of education
- 1.8.2006 – 31.7.2008 , part-time position (50 %)

- Professor of mathematics education
- Tallinn University, Department of Mathematics
- 1.1.2006 –31.5.2008, part-time position (50 %)

- Post doc researcher
- University of Helsinki, Department of applied sciences of education
- 1.8.2005-31.7.2006, Since 1.1.2006 a part-time position (50 %)

- Post doc researcher
- University of Turku, Department of Teacher Education
- Academy of Finland project #8201695: E. Pehkonen: Luokanopettajan matematiikkakuvan kehittyminen
- 1.8.2004 –31.7.2005

- Researcher
- University of Turku, Department of Teacher Education
- Academy of Finland project #8201695, E. Pehkonen: Luokanopettajan matematiikkakuvan kehittyminen
- 1.8.2003 – 31.7.2004.

- Researcher
- University of Helsinki, Department of Teacher Education
- Academy of Finland, E. Pehkonen, project #51019: Matematiikan ymmärtäminen ja itseluottamus [Understanding and self-confidence in mathematics]
- 1.8.2001-31.12.2003
- University of Helsinki, Department of Teacher Education
- Lecturer of mathematics and science education
- 1.8.2000-30.7.2001
- Full-time PhD-student
- University of Helsinki, Department of Teacher Education
- Opettajien matematiikan, fysiikan ja kemian valtakunnallinen tutkijakoulu [The Finnish graduate school in mathematics, physics and chemistry education]
- 1.9.1997 –30.7.2000
- Researcher
- University of Helsinki, Department of Teacher Education
- Opiilaiden matemattiset uskomukset -projekti [Students' mathematical beliefs –project] (Academy of Finland, E. Pehkonen)
- 1.1. 1996 – 30.8.1997
- Part-time research assistant
- University of Helsinki, Department of Teacher Education
- Peruskoulun 9-luokan matematiikanopetuksen arviointiprojekti [The evaluation project of ninth grade mathematics teaching] (Opetushallitus, project leader: Erkki Pehkonen)
- 1.3.–30.10. 1995

Research funding as well as leadership and supervision

- Co-author in the preparation of 2 successful funding applications (Erkki Pehkonen: Academy of Finland projects #8201695, #51019)
- Leader for the ESF funded project "Kvaliteetne matemaatikaharidus läbi rahvusvaheliselt tunnustatud õpetajakoolituse" [= "Quality teacher education through internationally recognized teacher education"]. (Tallinn University, years 2006-2008).
- Leader of the NorBa comparative Research on Mathematics Teachers' Beliefs in Baltic and Nordic countries and leader of the continuation project NorBa-TM, engaging 16 countries. <http://norbal.wordpress.com/>;

- The leader of the Finnish team for "The Lexicon Project: Analysing pedagogical naming systems from different cultures to reconceptualise classroom practice and advance educational theory" <http://www.lexicon.iccr.edu.au/>, 2015-
- Co-author in the preparation of a successful grant application for International Research & Research Training Fund (IRRTF) and the Finnish PI in the project "The International Network for the Social Essentials of Learning" <http://www.findanexpert.unimelb.edu.au/display/grant501896>, 2015-

Supervised PhD-theses

- Indrek Kaldo (Tallinn University): "University students' view of mathematics in Estonia". 2015-06-15.

Supervisor of 12 PhD-students:

- Laura Tuohilampi: "Deepening mathematics related affect research into social and cultural: decline, measurement and significance of students' multi-level affect in Finland and Chile" (pre-examination approved, public defence March 19, 2016)
- Rauno Koskinen: "Mielekäs oppiminen matematiikan opetuksen lähtökohtana. Systemaattinen analyysi Journal for Research in Mathematics Education aikakauslehden artikkelien pohjalta" (pre-examination approved)
- Emmanuel Adu-Tutu Bofah (thesis submitted)
- Enrique Garcia Moreno Esteva
- Eija Henritius
- Marja Hytönen
- Jüri Kurvits
- Mikko Meriläinen
- Inka Miettinen
- Susanna Oksanen
- Juha Johansson
- Regina Reinup (Tallinn University)

Merits in teaching and pedagogical competence

- Pedagogical studies for teachers (60 ECTS credits) completed as part of M.Sc. degree. University of Helsinki. 1996.
- Evaluation of teaching competence for the title of a docent: excellent (5/5), 2006
- Head of the Subject Teacher Education Programme (STEP) in English, over the first years after its establishment, 2011-2012.

Other academic merits

- Service as an opponent of a doctoral dissertation
- Partanen, Anna-Maija: "Challenging the school mathematics culture: An investigative small-group approach; Ethnographic teacher research on social and sociomathematical norms", University of Lapland, 28.05.2011

- Sumpter, Lovisa: "On Aspects of Mathematical Reasoning : Affect and Gender", Umeå Universitet, Sweden, 2009
- Wæge, Kjersti: "Elevenes motivasjon for å lære matematikk og undersøkende matematikkundervisning", Norges teknisk-naturvitenskapelige universitet, Norway, 2007
- Leppäaho, Henry: "Matemaattisen ongelmanratkaisutaidon opettaminen peruskoulussa. Ongelmanratkaisukurssin kehittäminen ja arviointi", University of Jyväskylä, 13.1.2007
- Service as a pre-examiner of a doctoral dissertation
- Lutovac, Sonja: "From Memories of the Past to Anticipations of the Future: Pre-service elementary teachers' mathematical identity work", University of Oulu, 2014
- Lukin, Tuija: "Motivaatio matematiikan opiskelussa – seurantatutkimus motivaatiotekijöistä ja niiden välisistä yhteyksistä yläkoulun aikana", University of Eastern Finland, 2013
- Piht, Sirje: "Päässälaskutaito ja päässälaskun suoritusstrategiat peruskoulun luokilla 1–3 virossa sekä tulosten vertailu suomalaisten oppilaiden suorituksiin", University of Turku, Finland, 2011
- Tikkanen, Pirjo: "`` Helpompaa ja hauskeempaa kuin luulin ´. Matematiikka suomalaisten ja unkarilaisten perusopetuksen neljäsluokkalaisten kokemana", University of Jyväskylä, 2008.
- Hähkiöniemi, Markus: "The Role of Representations in Learning the Derivative", University of Jyväskylä, 2006.
 - Service as a pre-examiner of a doctoral dissertation (abroad)
 - Hellgren, Jenny, M.: "Students as Scientists: A study of motivation in the science classroom". Opponent in a 90 % seminar. University of Umeå, Sweden. 2015-05-19
 - De Simone, Marina: "Rationality in mathematics teaching: the emergence of emotions in decision-making". University of Turin, Italy. 2015-01-06
 - Gebremichael, Andualem Tami: "Students' Perceptions about the Relevance of Mathematics in an Ethiopian Preparatory School". Opponent in a 90 % seminar. University of Agder, Norway. 2012-05-04
 - Ingram, Naomi: "The importance of length, breadth and depth when studying students' affective responses to mathematics through the lens of identity", University of Otago, New Zealand. 2011.
 - Kislenko, Kirsti: "Exploring pupils' beliefs about mathematics: Cases from Estonia and Norway". Opponent in a 90 % seminar. University of Agder, Norway. 2010-10-05
 - Evaluation of academic/scientific competence for academic positions
 - Aslaksen, Helmer, evaluation for promotion to a position as a professor of mathematics education, University of Oslo, 2014
 - Evaluation of academic/scientific competence for title of docent
 - Markus Hähkiöniemi, title of a docent in mathematics education, University of Jyväskylä, 2013
 - Kaartinen, Sinikka, title of a docent in education, specifically mathematics education, University of Jyväskylä, 2011.
 - Hannula, Minna, title of a docent in education, University of Helsinki, 2010.

- Memberships in scientific and scholarly societies
- International Group for Psychology of Mathematics Education 1997-
- European Society for Research in Mathematics Education; 2003 –
- The Nordic Society for Research in Mathematics Education (NORME); 2008-
- The Finnish Mathematics and Science Education Research Association; 1998 –

- Positions of trust in scientific and scholarly societies
- International Group for Psychology of Mathematics Education; member of International Committee, 2003-2007; treasurer 2004-2007; auditor 2008-2012
- European Society for Research in Mathematics Education; Board member 2011-; Treasurer 2013-
- The Nordic Society for Research in Mathematics Education (NORME); Board member 2008-
- The Finnish Mathematics and Science Education Research Association; Board member 2003-2012

- positions as editor-in-chief, editor, or member of editorial boards of scientific and scholarly journals and publication series
- Editor for Nomad, Nordic studies in Mathematics Education 2012-2015
- Research in Mathematics Education, member of the International Advisory Board
- For the Learning of Mathematics, member of the Advisory Board

- Referee for scientific and scholarly journals
- Educational Studies in Mathematics, 2005 -
- International Journal of Science and Mathematics Education, 2009 -
- Studia Psychologica, 2012-
- Research in Mathematics Education, 2009 -
- For the Learning of Mathematics, 2005 -
- Mathematical Thinking and Learning, 2005 -

- Administrative responsibilities at higher education institutions or at research organisations, responsibilities in the higher education community
- Tallinna Ülikooli kasvatusteaduste doktorinõukogu (Tallin university, Faculty of Education, member of doctoral committee), 2006-2007

- University of Helsinki, Faculty of Behavioural Sciences, member of Faculty Council 2010-2013
- University of Helsinki, Department of Teacher Education, vice-chair of subject teacher education 2010-2013
- University of Helsinki, member of the steering committee of the doctoral programme School, Education, Society and Culture (SEDUCE)
- Invited keynote/plenary lectures abroad
 - "Use of gaze tracking to study student attention in class: Early reflections on methodology" in 13th Conference on Educational Assessment, Szeged, 23-25 April, 2015
 - "Student gesturing in missing number pre-algebra tasks" in Teaching Mathematics: Retrospective and Perspectives, Tartu, Estonia, 30.05.2012 → 01.06.2012
 - "Structure and dynamics of affect in mathematical thinking and learning" in Congress of the European Society for Research in Mathematics Education, Rzeszow, Poland, 09.02.2011 → 13.02.2011
 - "Understanding Affect towards Mathematics in Practice" in Nordic Conference on Research in Mathematics Education NORMA 05, Trondheim, Norway. 2005

Scientific and societal impact of research

- 124 publications (10.01.2016)
- 24 refereed journal articles (10.01.2016)
- *h*-index = 18 (Harzing's PoP 10.01.2016)
- 6 most cited publications (citations according to Harzing's PoP 10.01.2016)
 - Hannula, M.S. 2002. Attitude towards mathematics: emotions, expectations and values. *Educational Studies in Mathematics* 49 (1), 25 – 46. 272 citations.
 - Zan, R., Brown, L., Evans, J. & Hannula, M. S. 2006. Affect in mathematics education: an introduction. *Educational Studies in Mathematics* 63 113-121 DOI: 10.1007/s10649-006-9028-2. 182 citations.
 - Hannula, M. S. 2006. Motivation in Mathematics: Goals reflected in emotions. *Educational Studies in Mathematics* 63, 165-178. 169 citations.
 - Hannula, Markku S. 2006. Affect in mathematical thinking and learning. In W. Schölglmann & J. Maass (Eds.), *New mathematics education research and practice*. pp. 209-232. Rotterdam: Sense. 117 citations
 - Hannula, M.S., Evans, J., Philippou, G., & Zan, R. 2004. "Affect in mathematics education – exploring theoretical frameworks" In M. J. Høines & A. B. Fuglestad (eds.) *Proceedings of the 28th Conference of the International Group for the Psychology of Mathematics Education*. Vol 1, 107 – 109. Bergen University College. 68 citations
 - Hannula, M. S. 2012. Exploring new dimensions of mathematics related affect: embodied and social theories. *Research in Mathematics Education* 14 (2), 137-161. 64 citations

Other

The National Union of Students in Finland, vice president, 1992

City of Espoo, elected office in the school board, 1997-2000 and 2009-2012

City of Espoo, vice president of the school board, 2001-2004

Päivänkehrä comprehensive school, Espoo, member of the board 2005-2008

City of Helsinki, elected office in the school board (substitute member), 2013-