

1. Name: Minna Marjaana Hannula-Sormunen (former Hannula, Valkonen)
ORCID: <https://orcid.org/0000-0002-6106-2569>
Year of birth: 1971
Citizenship: Finnish
Research portal: https://www.researchgate.net/profile/Minna_Hannula-Sormunen
2. Degrees: Docent of Education, University of Helsinki 27.1.2010
 PhD in Education, University of Turku 31.5.2005
 Licentiate in Education, University of Turku 29.4.2003
 Teacher qualification, University of Turku 13.10.1997
 M.A. in Education, University of Turku 13.5.1996
4. Language skills: Finnish (native), English (fluent), Swedish and German (intermediate)
5. Current employment: Professor of Education, University of Turku 1.1.2020 –



6. Previous work experience

University of Turku

Associate professor (tenured track 2nd level) 1.8.2016 – 31.12.2019

Turku Institute for Advanced Studies (TIAS), University of Turku

Collegium researcher 1.1.2012 – 30.7.2016

Department of Teacher Education, University of Turku

University lecturer (currently leave of absence) 1.1.2013 -

University of Turku, Department of Teacher Education, Centre for Learning Research

Senior Research Scientist 1.1.2010 – 31.12.2011

University of Turku, Department of Education, Centre for Learning Research

Postdoctoral scientist of the Academy of Finland 1.7.2007 – 31.12.2009

Sackler Institute for Developmental Psychobiology, Weill Medical College of Cornell University, USA

Postdoctoral Research Fellow 1.9.2005 – 30.6.2007

University of Turku, Department of Education, Centre for Learning Research

Coordinator (Faculty of Education) 1.7.2005 - 30.8.2005

Researcher on Grant from Finnish Cultural Foundation 1.1.2005 – 30.6.2005

Assistant of Special Education (leave of absence 1.4.2004 – 30.6.2007) 1.4.2004 – 30.6.2007

Doctoral student of Finnish Graduate School for Educational Sciences 1.1.2003 – 31.12.2004

Researcher on Grant from Finnish Cultural Foundation 1.8.2002 – 31.12.2003

Researcher (full-time) Origins of Exclusion project 1.12.2001 – 31.7.2002

Researcher (part-time) Pythagoras project 1.1.1998 – 30.11.2001

University of Turku, Centre for Learning Research and Department of Psychology

Assistant secretary of EARLI (part-time) 1996

Research assistant (part-time) DECOM-project 1.3.1995 - 31.1.1997

7. Career breaks

Maternity leaves (24.1. – 3.12.1997) and (1.1.2012-1.12.2013)

8. Research funding and grants

Awarded research funding as principal investigator

Finnish National Agency for Education, Joustavaan Matematiikkaan 3 (207 000 Euros) 4.5.2022 – 31.12.2023
 Teknoliogiateollisuuden 100-vuotissäätiö, Matematiikan oppimisen ja opetuksen ekosysteemi (Sub-project PI, 500 000 Euros) 1.9.2021 – 31.12.2024

Academy of Finland, Strategic Council, Growing Mind /Mathematics (Sub-project PI, 400 000 Euros) 1.1.2020-31.12.2023

Academy of Finland, FONO Academy Research Project (480 000 Euros) 1.9.2020 – 31.8.2024

Finnish National Agency for Education, Joustavaan Matematiikkaan 2(725 000 Euros) 1.1.2020 – 31.12.2022

Ministry of Education, Matematiikan Maaailmaan Key project funding (350 000 Euros) 1.7.2018 – 30.9.2020

Academy of Finland, Math All Around Us, MAY Key project funding (300 000 Euros) 1.9.2016 – 31.8.2019

Academy of Finland, DECIN Academy Research Project (600 000 Euros) 1.9.2014 – 31.8.2018

Turku Institute for Advanced Studies, University of Turku, (3 yrs funding) 1.1.2012 – 25.11.2016

Academy of Finland, Postdoctoral Research Grant (180 000 Euros) 1.1.2007 – 31.12.2009

Academy of Finland, 1-year Grant for Research Abroad (25 600 Euros) 1.6.2005 – 31.12.2006

Finnish Cultural Foundation, Grant for Doctoral thesis (13 500 Euros) 1.8.2002 – 30.7.2003

Participation of grant writing of following successful projects: (2016 – 2019) ENADA project Academy of Finland (PI Erno Lehtinen); (2015-2017) TEKES project, (PI Erno Lehtinen); (2013-2017) CUMA project, Academy of Finland (PI Erno Lehtinen); (2010-2014) Academy Professor project (PI Erno Lehtinen), Academy of Finland; (2008-2011) DEMAS project, Academy of Finland (PI Erno Lehtinen)

9. Research output

Publications: A (83), B (0), C(5), D (13) see Publication list

10. Research supervision and leadership experience

Supervisor of PhD students (9) postdoc researchers (2) and master's theses (14)

Principal investigator in the following projects:

2021 – 2023 “Growing Mind /Mathematics sub-project PI (GM PI Hakkarainen), Academy of Finland, Strategic Council

2020 – 2024 “Focusing on numerical order” (FONO), Academy of Finland

2020 – 2023 “Joustavaan Matematiikkaan” Teachers’ PD courses www.flexibility.fi Opetushallitus (FNAE)

2018 – 2020 “Matematiikan Maailmaan” Teachers’ inservice training key project, Ministry of Education

2016 – 2019 “Math All Around You” (MAY), Key project, Academy of Finland

2014 – 2018 “Developmental Contributors in Numeracy” (DECIN), Academy of Finland

2011 – 2016 “Focus on Numbers” Collegium Researcher project, Turku Institute for Advanced Studies

2007 – 2009 “Effects of spontaneous numerical focusing tendency on numerical development in childhood” (Postdoc project, Academy of Finland)

11. Teaching merits

University level education: Teacher qualification, University of Turku (13.10.1997)

University of Helsinki, lectures and seminars of mathematic didactics, 35 hours, MA studies (in springs 2012 and 2013) University of Turku, lecturing, seminars in the master’s degree and doctoral degree courses, teaching 2 early education courses 2016-2018, master’s seminars since fall 2018, development of PD online courses (www.flexibility.fi) Comprehension school and junior high school: 1 full school year as a PE teacher, City of Suolahti (1990-91)

In-service training of teachers, psychologists, preschool teachers, altogether ca 300 teaching hours:

Production of several learning materials, online courses and development of teaching methods: 2 early education intervention programs, 1 full preschool program, 6 PD online courses

Participation in educational export: Oman – 2015-2016

12. Awards, prizes and honours (3+2)

Zonta award (2019), Outstanding Publication Award of European Association for Research on Learning and Instruction (2007) SRCD Biennial Meeting Student Award (2005) Awards of my (former) PhD students, supervisees: Eric De Corte Award, EARLI, (2019 Jake McMullen); Best PhD thesis in Educational sciences, Kasvatustieteellinen seura (2019, Boglarka Brezovszky)

13. Other key academic merits

Associate editor: Learning and Instruction 2022-2026; Editorial board member: Nordic Studies in Mathematics Education (NOMAD) 2014-, Contemporary Educational Psychology 2020-, ;Scientific steering group member of LUMAT “Research and Practice in Math, Science and Technology Education” Journal. External reviewer of PhD thesis (2): Reelike Suviste, University of Tartu, October 2015; Sophie Batchelor, Loughborough University, England. November 2014. Research grant reviewer (2): NWO Dutch Programme Council for Educational Research (PROO) (2008), FWO Research Foundation Flanders (2011) Evaluation of academic/scientific programme or artistic competence (e.g. title of docent) (2): University of Cyprus (PhD and Master’s Programme in Mathematics Teaching and Learning (2020), Docentur: University of Oulu, April, 2015, University of Tampere, September 2020, Full professor (1) Ariel University, Israel, Editorial work of books (1) and special issues of scientific journals (2): Invited keynote lectures (3):in 2013 at 16. valtakunnalliset oppimistutkimuksen päivät and EARLI 2009, NORMA2020 Invited scientific speeches abroad/international conference (14): Memberships and positions of trust in scientific societies: Board member of Faculty of Education, University of Turku, 2017 – 2019 and 2021-2024, Board member of the International Master’s program LLEES at the faculty of education, University of Turku, 2010-2013; Secretary of Finnish network for researchers of mathematical learning difficulties 2004-2010, Experience of organising scientific meetings (5): The 3rd Conceptual Change SIG meeting, Oppimisvaikeuksien tutkijapäivät 2005, EARLI Advanced Study Colloquim, Brugge, 2008; Aivot, Oppiminen ja Koulutus, December 2009, member of scientific committee of NORMA 11, Nordic Conference on Mathematics Education, Iceland 2011, Invited workshop for SFON research teams from Germany, Ecuador, Belgium, Finland and England, 2014, Jyväskylä.

14. Scientific and societal impact

SFON methods and theory been used in more than dozen countries and it is part of the latest national preschool curriculum in Finland. The preschool education program “Pikkumetsän esiopetus” has been in the use of 1/3 to ½ of all pre-schoolers in Finland in 2009-2015. The research has been presented in the TV news in all main channels of Finland, and radio, newspapers and magazines in Finland and Sweden since 2005.