

## CURRICULUM VITAE (15/06/2021)



### PERSONAL INFORMATION

**Family name, First name:** Pursiainen, Sampa, **ORCID ID:** 0000-0002-9131-9070, **Date of birth:** 27/04/1978, **Nationality:** Finnish, **Web site:** <https://www.linkedin.com/in/sampa-pursiainen/>

### EDUCATION

- 2009      PhD(Eng.)  
Faculty of Information and Natural Sciences, Institute of Mathematics, Helsinki University of Technology, Finland.  
PhD Supervisor: Prof. Erkki Somersalo
- 2003      Master of Sciences  
Information and Natural Sciences / Institute of Mathematics, Helsinki University of Technology, Finland.

### CURRENT POSITION(S)

- 2019 –      Associate Professor  
Faculty of Information Technology and Communication Sciences, Computing Sciences, Tampere University, Finland.
- 2015 –      Adjunct Professor (Title of Docent)  
Aalto School of Science / Department of Mathematics and Systems Analysis, Aalto University, Finland.  
2018 – 2025      Team Leader  
Finnish Centre of Excellence in Inverse Problems Research, Academy of Finland.

### PREVIOUS POSITIONS

- 2015 – 2018      Assistant Professor  
Faculty of Engineering and Natural Sciences, Department of Mathematics, Tampere University of Technology.
- 2012 – 2015      Postdoctoral Researcher, Academy of Finland, Department of Mathematics and Systems Analysis, Aalto University, Finland.
- 2012 – 2012      Postdoctoral Researcher, Department of Mathematics, Tampere University of Technology, Finland.
- 2011 – 2012      Postdoctoral Researcher, Department of Mathematics and Systems Analysis, Aalto University, Finland.

### PUBLICATION HISTORY

45 peer-reviewed publications, 549 citations, h-index 13. Fields of Research: Applied Mathematics. Biomedical Engineering, Medical Imaging, Neuroscience, Inverse Problems, Imaging Sciences, Planetary Science, Astrophysics.

### GRANTS AND AWARDS

- 2011 – 2020      Total Academy of Finland project funding EUR 1.557.162 (10 accepted projects).  
2021      Visiting Professor, Institut Fresnel, Aix-Marseille University, Marseille, France.
- 2021 – 2023      Principal Investigator in Academy of Finland (Era PerMed JTC2020) Project, Personalised diagnosis and treatment for refractory focal paediatric and adult epilepsy, PerEpi (Academy of Finland, 344712).
- 2021 – 2023      Principal Investigator in Academy of Finland ICT2023 Project, FETD-Based Tomographic Full-Wave Radar Imaging of Small Solar System Body Interiors (Academy of Finland, 336151).
- 2021      Supervisor of Ms. Atena Rezaei, Doctoral researcher grant, Alfred Kordelin Foundation, Finland.
- 2020 – 2021      Supervisor of Ms. Liisa-Ida Sorsa, Doctoral researcher grant, Emil Aaltonen Foundation, Finland.

- 2020 Supervisor of Ms. Atena Rezaei, Doctoral researcher grant, Väisälä Foundation, Finnish Academy of Sciences and Letters, Finland.
- 2018 – 2020 Supervisor of Academy of Finland Postdoctoral Researcher Dr. Alexandra Koulouri, Super-resolution driven by sparsity priors in linear inverse problems with application in microscopy and neuroimaging (Academy of Finland, 316542, 326454).
- 2018 – 2025 Team Leader, Academy of Finland Centre of Excellence in Modelling and Imaging (312341, 336792, 326590).
- 2016 – 2018 Academy of Finland Key Project (Academy of Finland, 305055), Department of Mathematics, Tampere University of Technology.
- 2012 – 2015 Postdoctoral Researcher, Combining finite element and Bayesian techniques in EEG and MEG imaging of the brain (Academy of Finland, 257288).

#### **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

- 2021 – Mr. Fernando Galaz Prieto, MSc, Doctoral Researcher, Tampere University.
- 2021 – Mr. Yusuf Oluwatoki Yusuf, MSc, Doctoral Researcher, Tampere University.
- 2021 Master's Thesis of Mr. Fernando Galaz Prieto, MSc, ENS Faculty, Tampere University, Finland.
- 2020 – Mr. Joonas Lahtinen, MSc, Doctoral Researcher, Tampere University.
- 2020 Master's Thesis of Mr. Lari Kuuppo, MSc, ENS Faculty, Tampere University, Finland.
- 2019 Master's Thesis of Ms. Qin He, MSc, ITC Faculty, Tampere University, Finland.
- 2018 – 2021 Ms. Alexandra Koulouri, PhD, Postdoctoral Researcher, Academy of Finland / Tampere University.
- 2018 – Ms. Liisa-Ida Sorsa, MSc, Doctoral Researcher, Tampere University.
- 2017 Master's Thesis of Ms. Liisa-Ida Sorsa, MSc, Laboratory of Mathematics, Tampere University of Technology, Finland.
- 2017 – 2019 Ms. Defne Us, MSc, Doctoral Student (joint supervision with Prof. Ulla Ruotsalainen), Tampere University.
- 2017 – Ms. Atena Rezaei, MSc, Doctoral Student.
- 2017 Master's Thesis of Ms. Tuuli Miinalainen, MSc, Laboratory of Mathematics, Tampere University of Technology, Finland.
- 2016 – 2020 Mr. Mika Takala, MSc, Doctoral Student.

#### **TEACHING ACTIVITIES**

- 2021 Lecturer, MATH.MA.730-2020-2021-1 Inverse Problems, Tampere University, Finland.
- 2020 Lecturer, MATH.MA.160-2020-2021-1 Calculus 2, Tampere University, Finland.
- 2020 Lecturer, MAT-01366 Mathematics 3, Tampere University, Finland.
- 2019 Lecturer and Organizer, MAT-68007 Topics in Mathematics: Math & Modeling Seminar, Tampere University, Finland.
- 2019 Lecturer, MAT-62006 Inverse Problems, Tampere University, Finland.
- 2018 Lecturer, Mat-62006 Inverse Problems, Tampere Summer School (TUT and University of Tampere).
- 2018 Lecturer and Organizer, MAT-67756 Post-Graduate Seminar in Mathematics, Tampere University of Technology, Finland.
- 2017 Lecturer, MAT-62006 Inverse Problems, Tampere University of Technology, Finland.

#### **ORGANISATION OF SCIENTIFIC MEETINGS**

- 2021 Inverse Days, Annual Meeting of Finnish Inverse Problems Society, Tampere Finland.
- 2018 Asteroids Inside Out Workshop, Tampere, Finland.
- 2014 Inverse Days, Annual Meeting of Finnish Inverse Problems Society, Tampere Finland.

#### **INSTITUTIONAL RESPONSIBILITIES**

- 2019 – Member Of Faculty Board, Faculty of Engineering and Natural Sciences, Tampere University, Finland.

#### **MEMBERSHIPS OF SCIENTIFIC SOCIETIES (if applicable)**

- 2003 – Member, Finnish Inverse Problems Society (FIPS), Finland.
- 2015 – Member, Finnish Mathematical Society, Finland.