Tanja Tarvainen CURRICULUM VITAE

University of Eastern Finland Department of Applied Physics

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PERSONAL INFORMATION

Full name: Tarvainen (born Vilhunen), Tanja Maarit

Gender, children: Female, married, 1 child (Roni, born 30.11.2006)

ResearcherID: A-1477-2009

ORCID: 0000-0002-7919-4033

DATE AND PLACE OF BIRTH, NATIONALITY, CURRENT RESIDENCE

Date and place of birth: 19.5.1974, Siilinjärvi, Finland

Citizenship: Finland

Current residence: Kuopio, Finland

EDUCATION AND DEGREES AWARDED

2009 Docent: Optical tomography, University of Kuopio, Department of Physics, Finland,

1.12.2009

2006 PhD, "Computational Methods for Light Transport in Diffuse Optical Tomography",

Department of Physics, University of Kuopio, Finland, 27.10.2006

2000 MSc, "Determining the dielectric properties of biological tissues", Department of Applied

Physics, University of Kuopio, 6.11.2000

1993 Matriculation, 5.6.1993, Siilinjärven lukio

LINGUISTIC SKILLS

Native language: Finnish

Other language skills: English (fluent), German (moderate), Swedish (moderate)

CURRENT POSITION

2021 – Professor (Computational imaging and modelling), Department of Applied Physics, University

of Eastern Finland, Finland

2021–2026 Visiting Professor, Department of Computer Science, University College London, UK

2019– Head of the Biomedical Optical Imaging and Ultrasound Laboratory, Department of Applied

Physics, University of Eastern Finland, Finland

PREVIOUS POSITIONS

2021 Vice head of the Department of Applied Physics, University of Eastern Finland, Finland

2007–2021 Research Associate (part-time 4/2008-4/2021), Department of Computer Science, University

College London, UK

2017–2020 Associate Professor (tenure track), Department of Applied Physics, University of Eastern

Finland, Finland

2016 Senior researcher, Department of Applied Physics, University of Eastern Finland, Finland

2011–2015 Academy Research Fellow, Department of Applied Physics, University of Eastern Finland,

Finland

2008–2010 Academy postdoctoral researcher, Department of Physics, University of Kuopio, Finland

2001–2006 Researcher, Department of Physics, University of Kuopio, Finland

CAREER BREAKS

18.11.2006–30.11.2007 Maternity leave (12 months)

RESEACRH FUNDING AND GRANTS

| 2021–2026 | ERC CoG, "Quantitative tomography using coupled physics of waves", 2 000 000 €. | | | | | | | |
|-----------|--|--|--|--|--|--|--|--|
| 2018-2025 | Academy of Finland, Team leader in the "Centre of Excellence in Inverse Modelling and | | | | | | | |
| | Imaging", 118 109 € (2018-2020), 94 700 € (2020-2022) | | | | | | | |
| 2018-2021 | Academy of Finland, Consortium PI of the RADDESS Academy Programme project | | | | | | | |
| | "Nanotheranostics based on light", 349 472 € | | | | | | | |
| 2017–2021 | Jane and Aatos Erkko Foundation, 500 000 € "Quantitative imaging using light and sound". | | | | | | | |
| 2014–2016 | Magnus Ehrnrooth foundation, 60 000 €, "Quantitative photoacoustic tomography". | | | | | | | |
| 2011–2014 | University of Eastern Finland, 270 000 €, strategic funding of the University of Eastern Finland | | | | | | | |
| | (Innovative Research Initiatives –projects), "Computational methods for quantitative | | | | | | | |
| | photoacoustic tomography" | | | | | | | |
| 2011–2015 | Academy of Finland, 750 000 €, post and research costs of an Academy Research Fellow, | | | | | | | |
| | "Modelling and reconstruction in three dimensional optical imaging" | | | | | | | |
| 2008-2010 | Academy of Finland, 189 000 €, postdoctoral research project, "Modelling approaches to the | | | | | | | |
| | forward and inverse problem of optical tomography" | | | | | | | |
| 2000- | Smaller research and travel grants from various foundations, approximately 40 000 € | | | | | | | |
| | | | | | | | | |

RESEARCH OUTPUT

Publications Articles in peer-reviewed international scientific journals: 57

Articles in refereed scientific edited volumes and conference proceedings: 41

Book chapters: 3

Articles in professional journals: 1

Software ValoMC - A Monte Carlo software for simulating light transport

https://inverselight.github.io/ValoMC/

Invention disclosures: 3

SUPERVISION OF POSTDOCTORAL FELLOWS, GRADUATE AND UNDERGRADUATE STUDENTS

Postdocs Meghdoot Mozumder (2018-), Jarkko Leskinen (2017-), Aleksi Leino (2017-2019), Aki Pulkkinen (2012-2018)

PhD students Miika Suhonen "Photoacoustic tomography in a heterogeneous medium", in progress

Jonna Kangasniemi "Utilising the radiative transfer equation in optical tomography", in progress

Teemu Sahlström "Modelling and image reconstruction in photoacoustic tomography", in progress

Eero Koponen "Synthetic schlieren tomography", in progress

Niko Hänninen "Image reconstruction and modelling of uncertainties in quantitative photoacoustic tomography", in progress

Aksel Kaastrup Rasmussen (Technical University of Denmark, secondary supervisor) "Computational Uncertainty Quantification for Hybrid Inverse Problems", in progress

Jenni Tick "Image reconstruction and modelling of uncertainties in photoacoustic tomography", 2019 (Jenni Tick was awarded with the Finnish Inverse Prize for an excellent PhD thesis completed during 2019)

Jussi Toivanen "Thermal tomography", 2016 (Jussi Toivanen's dissertation was awarded "with distinction")

Meghdoot Mozumder "Image reconstruction with error modelling in diffuse optical tomography", 2015

Ossi Lehtikangas "Approximations and hybrid models for modeling light propagation in biological tissues", 2014

MSc students Suvi Källman (in progress), Miika Suhonen (in progress), Anssi Manninen (in progress), Teemu

Sahlström (2019), Antti Mikkonen (2019), Olli Nykänen (2015), Hwan Goh (2014), Jenni Tick

(2014), Eppu Manninen (2014), Timothy Dennis (2010), Ossi Lehtikangas (2010)

TEACHING EXPERIENCE

Lectures Optimization, Finite element methods, Modelling II, Scientific presentation in physics

Short courses "Photoacoustic imaging" at Ultrasound techniques in medicine -course

"Computational inverse problems with applications in optical tomography" in International

Summer School on Inverse Problems, May 25-29, 2015, Helsinki, Finland

Exercises Statistical inverse problems, Mathematical modelling, Finite element methods,

Optimization, Estimation theory, Modelling II, Physics A, Physics III

Laboratory Project works in physics and in scientific computing

Physics laboratory works for physics students and bioscience students

Radiation protection demonstrations for bioscience students, medical students and high

school students

Pedagogical training

| 2012 | Research supervision course, University of Eastern Finland, 2012 |
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| 2006 | Sample lecture, approved with grade good, University of Kuopio, Finland |
| 2006 | Dedocacios in University Education 1.9.3 (A anadit points) University of Kyenia Fin |

2006 Pedagogics in University Education 1 & 2 (4 credit points), University of Kuopio, Finland

2005 Basics studies in education (15 credit points), University of Joensuu, Finland

AWARDS AND HONOURS

Publications with distinction

1 article selected as a Technical Area Pick for Biomedical Acoustics of *The Journal of the Acoustical Society of America* in 2018

3 articles selected as the highlights of Inverse Problems in 2006, 2010, 2012

1 article selected as insights of *Inverse Problems* in 2013

1 article selected into 25th Year Anniversary Collection of *Inverse Problems*

Fellowships

| 2011–2015 | Academy Research Fellow, Academy of Finland, Finland |
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| 2008–2010 | Postdoctoral Researcher, Academy of Finland, Finland |

Other

2017 Reviewer of the Year for *Inverse Problems* journal for 2017 (selected by the editorial board)

OTHER KEY ACADEMIC MERITS

Examiner of a doctoral dissertation

Bjørn Christian Skov Jensen (Technical University of Denmark, Denmark, 2020)

Alexander Beigl (University of Vienna, Austria, 2020) Prabodh Kumar Pandey (IIT Kanpur, India, 2020) Roman Hochuli (University College London, UK, 2016)

Opponent of a doctoral dissertation

Juuso Ketola (University of Oulu, Finland, 2021)

Hari Nortunen (Tampere University of Technology, Finland, 2018)

Martti Kalke (University of Helsinki, Finland, 2014)

Pre-examiner of a doctoral dissertation

Tiina Näsi (Aalto University School of Science, Finland, 2013)

Expert evaluator in recruitment

2019 Member of the assessment committee for a tenure track position at the Tampere University,

Finland

2019 Member of the assessment committee for a researcher position at the Technical University

of Denmark, Denmark

Peer review of funding applications

2017– Austrian Science Fund (2017, 2021)

National Science Centre Poland (2020)

H2020-MSCA-IF (2019, 2018)

The Netherlands Organisation for Health Research and Development (2017)

Austrian Academy of Sciences (2017) Czech Science Foundation (2017)

Memberships and positions of trust in scientific communities

2010– Member of the board (and vice president 2019–) of the "Finnish Inverse Problems Society"

2017–2020 Member of the board of the "Finnish Physical Society"

2001– Member of the scientific societies: "Society for Industrial and Applied Mathematics, SIAM",

"SPIE. The International Society for Optics and Photonics", "Finnish Physical Society", "Finnish Inverse Problems Society", "Photonics Finland", "Finnish Society of Medical Physics

and Medical Engineering"

Memberships in national or international expert, evaluation or steering groups and other expert roles

2020– Collaborator in CUQI - Computational Uncertainty Quantification for Inverse Problems, DTU

Compute, Denmark

2018– Member of the board of the "Finnish Centre of Excellence in Inverse Modelling and Imaging",

Finland

2019 Member of the selection committee for the 2020 SIAG/UQ Early Career Prize, Society for

Industrial and Applied Mathematics

2017–2020 Member of the Finnish National Committee of International Union for Pure and Applied

Physics

2016–2018 Member of the "Collaborative Community of Finnish Computational Sciences", Ministry of

Education and Culture, Finland

2012–2017 Member of the board of the "Finnish Centre of Excellence in Inverse Problems Research",

Finland

2011–2015 Member of the board of the "Inverse Problems Doctoral Program", Finland

2011–2015 Supervisor in the "Finnish Doctoral Program in Computational Sciences", Finland

Memberships in editorial committees for scientific and professional publication series and journals

2021– Member of the editorial board of the *Inverse Problems* journal

2019–2020 Member of the International Advisory Panel of the *Inverse Problems* journal

2019– Member of the editorial board of the Journal of Imaging

Referee for scientific publications

2005— Reviewer for over 200 papers in the following 42 international scientific journals: *Inverse*

Problems, Inverse Problems and Imaging, Journal of Inverse and III-Posed Problems, International Journal for Numerical Methods in Engineering, Inverse Problems in Science and Engineering, SIAM Journal on Imaging Sciences, Journal of Mathematical Imaging and Vision,

IEEE Transactions on Medical Imaging, Measurement Science and Technology, Journal of Quantitative Spectroscopy and Radiative Transfer, Biomedical Optics Express, Optics Express, Optics Letters, Journal of the Optical Society of America A, Applied Optics, Journal of Biomedical Optics, Physics in Medicine and Biology, Medical Physics, Journal of Optics, Optical Engineering, Biomedical Physics and Engineering Express, Photoacoustics, Applied Physics Letters, IET Image Processing, IEEE Transactions on Computational Imaging, IEEE Transactions on Magnetics, IEEE Photonics Technology Letters, IEEE Journal of Biomedical and Health Informatics, IEEE Sensors Journal, IEEE Access, International Journal of Thermal Sciences, Journal of Mathematical Analysis and Applications, Communications in Computational Physics, Computational Optimization and Algorithms, Journal of Statistical Distributions and Applications, Journal of Selected Topics in Quantum Electronics, Journal of Biophotonics, Journal of Imaging, Quantitative Imaging in Medicine and Surgery, Journal of Micro/Nanolithography MEMS and MOEMS (JM3), Mechanics of Advanced Materials and Structures, PLOS ONE, Physica Scripta, Chemical Engineering Research and Design, Advances in Mechanical Engineering

Administrative or working group positions in institutes of higher education and research organisations

| 2019– | Member of the board of the Institute of Photonics, University of Eastern Finland |
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| 2010- | Member of the board of the Department of Applied Physics, University of Eastern Finland |
| 2013-2021 | Member of the teaching work group of the Department of Applied Physics, University of |
| | Eastern Finland |
| 2013-2018 | Organiser of the Department of Applied Physics Seminar Series on Computational Physics, |
| | University of Eastern Finland |
| 2014- | Founder of the network of female researchers of the Finnish Inverse Problems Society |
| 2008- | Founder of the network of female researcher of the Department of Applied Physics, |
| | University of Eastern Finland |

ORGANISING SCIENTIFIC CONFERENCES

Organising scientific meetings

| 2023 | The Isaac Newton Institute for Mathematical Sciences programme "Rich and nonlinear |
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| | tomography - a multidisciplinary approach", Cambridge, UK |
| 2019 | Summer school "Finnish Summer School on Inverse Problems", June 3-7, 2019, Helsinki, |
| | Finland |
| 2019 | Workshop "Finnish Workshop on Radiative Transfer", May 6-7, 2019, Helsinki, Finland |
| 2012 | Summer school "Summer School on Computational Methods for Inverse Problems in |
| | Imaging", June 11-15, 2012, Kuopio, Finland |

Memberships in scientific committees of scientific conferences

| Memberships i | in scientific committees of scientific comercines |
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| 2022 | Optica Biomedical Optics Congress, April 24-27, 2022, Fort Lauderdale, Florida, U.S.A. |
| 2022 | SIAM Conference on Uncertainty Quantification, April 12-15, 2022, Atlanta, Georgia, U.S.A. |
| 2021 | Opto-Acoustic Methods and Applications conference at the European Conferences on |
| | Biomedical Optics, June 20-24, 2021, Munich, Germany |
| 2020 | OSA Biomedical Optics Congress, Optical Tomography and Spectroscopy meeting, April 20- |
| | 23, 2020, Organised as an all-virtual web conference format due to COVID-19 |
| 2019 | OSA Imaging and Applied Optics Congress, Mathematics in Imaging topical meeting, June 24 |
| | – 27, 2019, Munich, Germany |
| 2018 | Mathematics in Imaging, part of OSA Imaging and Applied Optics Congress, June 25 - 28, |
| | 2018, Orlando, Florida, USA |

Organising mini-symposia in scientific conferences

2022 Uncertainty Quantification and Diffusion Driven Tomography, together with Kim Knudsen and Tapio Helin, in *SIAM Conference on Imaging Science*, March 21-25, 2022, Virtual conference.

Uncertainty quantification in imaging, together with Tapio Helin and Nuutti Hyvönen, in International Congress on Industrial and Applied Mathematics, July 15-19, Valencia, Spain Imaging with light and sound, together with Felix Lucka, in SIAM Conference on Imaging Science, June 5-8, 2018, Bologna, Italy
 Optical Imaging using light: from theory to application, together with Teresa Correia, in Applied Inverse Problems conference, May 25-29, 2015, Helsinki, Finland
 Tomography Based on the Radiative Transfer Equation, together with Simon Arridge and Arnold D Kim, in Applied Inverse Problems conference, July 1-5, 2013, Daejon, Korea

INVITED LECTURES

Invited plenary and keynote lectures

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| 2021 | "Tomography using light and sound" in <i>Optics and Photonics Days</i> , December 1-3, 2021, |
| | Turku, Finland |
| 2019 | "Modelling of errors in photoacoustic tomography" in CIRM Conference on Mathematical and Numerical Approaches for Multi-Wave Inverse Problems, April 1-5, 2019, Marseille, |
| | France |
| 2017 | "Bayesian approach to photoacoustic tomography", in IMA Conference on Inverse Problems |
| | from Theory to Application, September 19-21, 2017, Cambridge, UK |
| 2016 | "Bayesian approach to quantitative photoacoustic tomography" in New trends in Hybrid |
| | Ultrasonic Imaging, March 7-10, 2016, Orléans, France |
| 2014 | "A Bayesian approach to quantitative photoacoustic tomography" in <i>Distinguished Lectures</i> |
| | on Inverse Problems, August 4-8, 2014, Helsinki, Finland |

Invited minicourses

2015 "Computational inverse problems with applications in optical tomography" in *International Summer School on Inverse Problems*, May 25-29, 2015, Helsinki, Finland

Invited lectures in international conferences and workshops

| 2021 | "Helicing the Dedictive Transfer Founties in Ontical Imaging" in Capital Competer |
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| 2021 | "Utilising the Radiative Transfer Equation in Optical Imaging" in <i>Special Semester Tomography Across the Scales Prequel Workshop</i> , virtual & Linz, Austria, October 11-15, 2021 |
| 2021 | "Photoacoustic tomography", in Virtual Symposium on Multimodal Medical Engineering, |
| | Kuopio University Hospital, September 23, 2021 |
| 2021 | "Bayesian approach to quantitative photoacoustic tomography" in ESI workshop on |
| | Tomographic Reconstructions and their Startling Applications, Virtual workshop of the Erwin |
| | Schrödinger International Institute for Mathematics and Physics (ESI), March 15-25, 2021 |
| 2018 | "Bayesian approach to photoacoustic tomography" in INdAM workshop Reconstruction |
| | Methods for Inverse Problems, arranged by E. Beretta, M. de Hoop, E. Francini, O. Scherzer |
| | and A. Aspri, Istituto Nazionale di Alta Matematica, Rome, Italy, May 28 – June 1, 2018 |
| 2018 | "Quantitative photoacoustic tomography" in Trends in Hybrid Data Tomography, arranged |
| | by K. Knudsen and T. Brander, Technical University of Denmark, Lyngby, Denmark, January |
| | 24, 2018 |
| 2017 | "Imaging and uncertainty quantification in photoacoustic tomography" in Bayesian and |
| | Nonlinear Inverse Problems, arranged by F. Dunker, T. Hohage, E. Mammen, J. Schmidt- |
| | Hieber and A. van der Vaart, Leiden, the Netherlands, August 28 – September 1, 2017 |
| 2017 | "Quantitative photoacoustic tomography using transport and diffusion models" in |
| | Quantitative Tomographic Imaging – Radon meets Bell and Maxwell, arranged by M. |
| | Bergounioux, U. Langer and O. Scherzer, Linz, Austria, July 10-14, 2017 |
| 2017 | "Image Reconstruction and Uncertainty Quantification in Photoacoustic Tomography" in |
| | Mathematics in Imaging, OSA Imaging and Applied Optics Congress, San Francisco, |
| | California, USA, June 26-29, 2017 |
| 2017 | "Bayesian approach to quantitative photoacoustic imaging" in Oberwolfach workshop on |
| | Computational Inverse Problems for Partial Differential Equations, arranged by L. Borcea, T. |
| | , |

Hohage and B. Kaltenbacher, Oberwolfach, Germany, May 14-20, 2017

| 2017 | "Bayesian Approach to Quantitative Photoacoustic Tomography" in Optimal Experimen | | | | | |
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| | Design and Inverse Problems workshop arranged by N. Polydorides, The Alan Turing Institute, | | | | | |
| | London, UK, 14-15 March, 2017 | | | | | |
| 2016 | "Utilising the radiative transfer equation in quantitative photoacoustic tomography" in | | | | | |
| | Quantitative Photoacoustic Imaging Workshop organised by B. Cox, London, UK, 2016 | | | | | |
| 2016 | "Image reconstruction with uncertainty quantification in photoacoustic tomography" in | | | | | |
| | Inverse Problems in the Alps workshop, Obergurgl, Austria, March 15-19, 2016 | | | | | |
| 2015 | "A Bayesian Approach to Quantitative Photoacoustic Tomography" in Workshop on | | | | | |
| | Quantitative Photoacoustic Imaging organised by J. Laufer, Berlin, Germany, 2015 | | | | | |
| 2014 | "Light Models for Quantitative Photoacoustic Tomography" in Quantitative Photoacoustic | | | | | |
| | Imaging Workshop organized by B. Cox, London, UK, 2014 | | | | | |
| 2013 | "Utilising radiative transfer equation in quantitative photoacoustic tomography", in MIRAN | | | | | |
| | Workshop on Inverse Transport Problems organised by O. Dorn, Manchester, UK, 2013 | | | | | |
| 2010 | "Approximation error approach for compensating for modelling errors in optical | | | | | |
| | tomography", in Inverse Transport Theory and Tomography workshop organised by G. Bal, P. | | | | | |
| | Stefanov and G. Uhlmann, Banff, Canada 2010 | | | | | |

| 2013 | "Utilising radiative transfer equation in quantitative photoacoustic tomography", in MIRAN | | | | | |
|--|--|--|--|--|--|--|
| Workshop on Inverse Transport Problems organised by O. Dorn, Manchester, UK, 2013 "Approximation error approach for compensating for modelling errors in compensation for modelling errors in compe | | | | | | |
| Invited lecture | es in mini-symposia of international conferences | | | | | |
| | · | | | | | |
| 2019 | "Image reconstruction and modelling of uncertainties in photoacoustic tomography" in Recent Advances in Tomographic Imaging mini-symposium arranged by M. Haltmeier and R. | | | | | |
| | Kowar, International Congress on Industrial and Applied Mathematics, Valencia, Spain, 15-19 July, 2019 | | | | | |
| 2019 | "Modelling of Uncertainties in Photoacoustic Tomography Using a Bayesian Approach" in | | | | | |
| | Operator Errors in Inverse Problems and PDEs mini-symposium arranged by Y. Korolev and CB. Schönlieb, Applied Inverse Problems conference, Grenoble, France, 8-12 July 2019 | | | | | |
| 2019 | "Image Reconstruction and Model Reduction in Quantitative Photoacoustic Tomography" in | | | | | |
| | Inverse Problems in Elastography and Coupled-physics Imaging mini-symposium arranged by | | | | | |
| | L. Mindrinos and P. Elbau, Applied Inverse Problems conference, Grenoble, France, 8-12 July | | | | | |
| | 2019 | | | | | |
| 2016 | "Bayesian Approach to Quantitative Photoacoustic Tomography" in Inverse Problems mini- | | | | | |
| | symposium arranged by S. Siltanen, Mathdays, Turku, Finland, 2016 | | | | | |
| 2015 | "Model reduction in optical imaging using a Bayesian approach" in Computational learning | | | | | |
| | and model optimization mini-symposium arranged by CB. Schönlieb, M. Chung and J.C. De | | | | | |
| | Los Reyes, International Congress on Industrial and Applied Mathematics, Beijing, China, | | | | | |
| 2045 | 2015 | | | | | |
| 2015 | "Bayesian approach to image reconstruction in quantitative photoacoustic tomography" in | | | | | |
| | Attenuation and Dispersion in Photoacoustic Imaging mini-symposium arranged by C. Shi and H. Ammari, International Congress on Industrial and Applied Mathematics, Beijing, China, | | | | | |
| | 2015 | | | | | |
| 2015 | "Truncated Fourier-series approximation of the time-dependent radiative transfer equation" | | | | | |
| | in Inverse Transport and Optical Tomography mini-symposium arranged by M. Machida, | | | | | |
| | Applied Inverse Problems Conference, Helsinki, Finland, 2015 | | | | | |
| 2014 | "Bayesian Image Reconstruction in Quantitative Photoacoustic Tomography" in | | | | | |
| | Photoacoustic Tomography mini-symposium arranged by S.R. Arridge and B. Cox, SIAM | | | | | |
| 2012 | Imaging Science Conference, Hong Kong, 2014 "Poverior image reconstruction in quantitative photography" in Inverse | | | | | |
| 2013 | "Bayesian image reconstruction in quantitative photoacoustic tomography", in <i>Inverse</i> Problems with experimental data mini-symposium arranged by M. Lassas, L. Oksanen, and S. | | | | | |
| | Siltanen, Applied Inverse Problems Conference, Daejon, South Korea, 2013 | | | | | |
| 2009 | "Approximation errors in optical tomography", in New developments in optical tomography | | | | | |
| _003 | | | | | | |

mini-symposium arranged by S. Arridge and J. Schotland in Applied Inverse Problems Conference in Vienna, Austria, 2009

2008 "Utilising the radiative transfer equation in optical tomography", in *Inverse and Forward Problems in Radiative Transport* mini-symposium arranged by V. Markel, Progress In Electromagnetics Research Symposium, Cambridge, USA, 2008

Invited lectures in seminar series

| 2020 | "Bayesian Approach to Quantitative Photoacoustic Tomography in CUQI seminar, Technical |
|------|---|
| | University of Denmark (virtual), 9.12.2020 |
| 2016 | "Quantitative Photoacoustic Tomography" in Inverse Problems Seminar, University of |
| | Helsinki, Finland, 5.10.2016 |
| 2015 | "Quantitative Photoacoustic Tomography" in Inverse Problems and Imaging seminars, |
| | University of Manchester, School of Mathematics, UK 22.10.2015 |
| 2014 | "A Bayesian Approach to Quantitative Photoacoustic Tomography", in the group seminar of |
| | Biological Physics and Soft Matter Group, Department of Physics, Tampere University of |
| | Technology, Finland, 28.10.2014 |
| 2011 | "Corrections to linear methods for diffuse optical tomography using approximation error |
| | modelling" in Department of Mathematics seminar series, University of Auckland, Auckland, |
| | New Zealand, 2011 |

SOCIETAL IMPACT

| 2021 | Invited | lecture | "Laskennallinen | kuvantaminen" | in | Datahallinnan | ja | laskennan |
|------|----------|------------|-------------------|---------------------|-------|--------------------|--------|------------|
| | kehittän | nisohjelmo | an päätösseminaar | i, Ministry of Educ | atior | n and Culture, CS0 | C — IT | Center for |
| | Science, | Decembe | r 13, 2021 | | | | | |

2021 Research featured in Tekniikka & Talous magazine 26.8.2021

https://www.tekniikkatalous.fi/uutiset/uusi-laaketieteellinen-kuvantamismenetelmayhdistaa-valon-ja-ultraaanen-ja-sopii-jopa-keskosvauvoille-talta-nayttavat-silla-kuvatuthiiren-aivot/d53d9a11-17e7-47ac-9b1e-80d84520b27a