Curriculum Vitae December 16th 2016

Name and date of birth <u>Teemu</u> Sakari Saksala Citizenship: Finnish

Contact information:

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Education and degrees:

Doctor of Philosophy (Applied mathematics) at University of Helsinki, expected Fall 2017 Master of science (Mathematics) at University of Helsinki, 2013 Bachelor of science (Mathematics) at University of Helsinki, 2011

Pedagogic education:

University pedagogic 1, 5 cr, Teaching and Learning at the University University pedagogic 2, 5 cr, The Planing, Implementation and Evaluation of University level teaching

Language skills:

Finnish: Mother tongue English: Excellent Swedish: Basics

Current position:

Doctoral candidate at University of Helsinki Advisor: Professor Matti Lassas, University of Helsinki

Academic positions:

6/2013 - 12/2017	Doctoral candidate, University of Helsinki,
	Department of mathematics and statistics
1/2012 - 5/2013	Assistant teacher on several courses during master studies
	University of Helsinki, Department of mathematics and statistics
6/2012 - 8/2012	Summer trainee, Finnish meteorological institute,
	Marine research division

Publications and preprints

Lassas M, Saksala T	Determination of a Riemannian manifold
	from the distance difference functions
	submitted, arXiv:1510.06157 preprint
Lassas M, Saksala T	Distance difference representations of subsets
	of Complete Riemannian manifolds
	submitted, Conference paper
Helin T, Lassas M,	Correlation based passive imaging
Oksanen L,	with a white noise source
Saksala T	submitted, arXiv:1609.08022 preprint

Teaching in the University of Helsinki:

Spring 2012	Lebesgue measure and Real analysis (intermediate/advanced studies 12cr),
	study group instructor
Fall 2012	Introduction to university mathematics (basic studies 5cr), teaching assistant
Fall 2012	Linear algebra and matrices (intermediate studies 10cr), teaching assistant
Spring 2013	Topology I (intermediate studies 10cr), teaching assistant
Spring 2014	Inverse problems (advanced studies 10cr), teaching assistant
Spring 2015	Basic course in Functional analysis (advanced studies 10cr), teaching assistant
Fall 2015	Partial differential equations (advanced studies 10cr),
	second lecturer 6h and teaching assistant
Fall 2016	Spectral theory (advanced studies 10cr), teaching assistant

Academic positions of trust:

2010 - 2011	A member of the board of Department of Mathematics and statistics,
	University of Helsinki
2009 -	A member of the academic teaching skill's validation committee,
	Faculty of Science, University of Helsinki
2014 - 2017	A member of the board of Department of Mathematics and statistics,
	University of Helsinki
2016 - 2017	A grad student representative in the steering board of
	the Doctoral school in natural sciences, University of Helsinki
2016	The vice chairman of the Association of Doctoral Students
	at the University of Helsinki
2017	Board member of the Association of Doctoral Students
	at the University of Helsinki

Invited talks

12.05.2015	Inverse problems seminar, University of Helsinki
	"Inverse problem on travel time differences"
27.08.2015	Meeting for young mathematician in Finland 2015-conference,
	Aalto university, Finland
	"Seeing inside the Earth. Riemannian manifolds with boundary
	and distance function."
21.09.2015	Geometry seminar, University of Jyväskylä, Finland
	"Determination of Riemannian manifold from distance difference functions"
27.11.2015	Inverse problems seminar, University College London, UK
	"Determination of Riemannian manifold from distance difference functions"
10.12.2015	Inverse days 2015 -conference, Technical university of Lappeenranta, Finland
	"Determination of Riemannian manifold from distance difference functions"
21.01.2016	RIMS workshop Spectral and Scattering Theory and Related Topics, RIMS
	Kyoto, Japan
	"Determination of Riemannian manifold from distance difference functions"
01.03.2016	Inverse problems seminar, University of Helsinki, Finland
	"How to find a metric tensor from the solution mapping of the wave equation
	on Riemannian manifold?"
26.10.2016	Analysis and geometry seminar, Aalto university, Finland
	"How to find a metric tensor from the solution mapping of the wave equation
	on Riemannian manifold?"
09.12.2016	Inverse Problems, Imaging and Partial Differential Equations, IAS HKUST
	Hong Kong
	"Determination of Riemannian manifold from distance difference functions"

Conference organization:

04.08 08.08.2014	Distinguished lectures in Inverse Problems 2014, Helsinki, Finland
	local organization committee
25.05 29.05.2015	Applied Inverse Problems 2015, Helsinki, Finland
	local organization committee
26.08 - 28.08.2015	Meeting for young mathematician in Finland 2015-conference,
	mini session "What Do the Boundaries Tell Us?" organizer

Conference attendances:

15.09 20.09.2013	Geometry and Inverse Problems, Banff, Canada
10.12 13.12.2013	Inverse days 2013, Inari, Finland
7.04 11.04.2014	Inverse Problems and Imaging, Paris, France
8.12 11.12.2014	Inverse days 2014, Tampere, Finland
8.06 12.06.2015	Geometric Inverse Problems, Paris, France
8.12 10.12.2015	Inverse days 2015, Lappeenranta, Finland
20.01 - 22.01.2016	RIMS workshop Spectral and Scattering Theory and Related Topics,
	Kyoto, Japan
30.5 3.6.2016	Dirichlet-to-Neumann Maps: Spectral Theory, Inverse Problems
	and Applications, Oaxaca, Mexico
9.11 11.11.2016	Carleman estimates, unique continuation and applications
	and Applications, London, UK
5.12 9.12.2016	IAS Workshop on Inverse Problems, Imaging
	and Partial Differential Equations, IAS HKUST, Hong Kong

Other academic visits:

19.08 23.08.2013	The 23 rd Jyväskylä Summer School, Jyväskylä, Finland
11.08 15.08.2014	The 24^{th} Jyväskylä Summer School, Jyväskylä, Finland
13.04 17.04.2015	Summer Pre-school on Inverse Problems, CIRM, Marseille, France
18.05 22.05.2015	Applied Inverse Problems summer school, Helsinki, Finland
15.11 28.11.2015	Research visit to Cambridge and London, UK