### **Personal information**

Name:	Rami Luisto, PhD	e-mail:	rami.luisto@gmail.com
Date of Birth:	November 19th 1986	Homepage:	https://luisto.fi

### **Current employment**

**2018–2020:** Data Scientist at Digital Workforce Services ltd.

## **Previous employments**

2018–2020:	Postdoctoral researcher at the University of Jyväskylä.	
2017-2018:	Postdoctoral researcher at the Charles University in Prague.	
Spring 2017:	Postdoctoral researcher at the University of Jyväskylä.	
Fall 2016:	Visiting assistant professor at the UCLA.	

# Education and theses (University of Helsinki)

Summer 2016:	Doctor of Philosophy. The title of the thesis was "Interactions between quasiregular- and BLD-mappings".	
Spring 2014:	Licentiate of Philosophy, containing 10 cr. of university pedagogics.	
Winter 2011:	Master of Science in Mathematics. Minor subjects in theoretical physics and methodological sciences.	

#### Grants

2017 & 2018:	A travel grant from the Finnish Academy of Science and Letters for a research visit to universities of Stony Brook and Connecticut.
2018:	Six month grant from the Association of Finnish Non-fiction Writers. Meant towards writing a general audience book on mathematics.
2017 & 2018:	Postdoc pool grant from the Finnish Academy of Science and Letters for a one year postdoc position at the Charles University in Prague.
2014 & 2015:	Väisälä foundation scholarship from the Finnish Academy of Sciences for two years starting from September of 2014. The scholarship was for full-time work on completing a PhD.
2015:	University of Helsinki Chancellor's travel grant for a five week research visit to the ICMAT <i>Research Term on Analysis and Geometry in Metric Spaces</i> in Madrid.

### **Professional activities**

2013-2015:	PhD student representative of the executive board of the Doctoral Programme of Mathematics and Statistics (DoMaSt). (University of Helsinki)
2012-2013:	PhD student member of the departmental council. (University of Helsinki)
2011-2013:	Co-organiser of the students' seminar. (University of Helsinki)
2007-2008:	Treasurer of the mathematics student union Matrix ry.

### Selected research merits

Seven accepted publications in peer-reviewed journals and four submitted preprints. For a more detailed list see https://luisto.fi/research.shtml.

## Selected scientific presentations at international conferences

15.7.2018	Geometric Function Theory in Fluid Mechanics, Barcelona.
9.7.2018	Nonlinear Analysis, Function Spaces and Applications, Prague.
3.7.2018	New Developments in Complex Analysis and Function Theory, Heraklion.
13.10.2017:	Leipzig-Prague weekend meeting, Labská Stráň, Czech Republic.
11.7.2016:	Geometric analysis on Riemannian and singular metric spaces, Como, Italy
15.10.2015:	IMPAN, Warsaw, GFT meets GGT -conference.
6.5.2015:	ICMAT, Madrid, Research Term on Analysis and Geometry in Metric Spaces.

# Selected seminar presentations

2017-2018:	Several talks at the Charles University in Prague Function Spaces Seminar.
24.4.2018	UCLA participating analysis seminar.
19.4.2018:	Analysis seminar at UIUC, USA.
8.12.2017:	Analysis seminar at UIUC, USA.
8.&15.11.2016:	UCLA participating analysis seminar.
27.4.2016:	École Polytechnique Féderalé de Lausanne, Seminar.
11.2.2016:	Analysis & PDE seminar at Pittsburgh University, USA.
4.2.2016:	Analysis seminar at UIUC, USA.

Besides these, a frequent speaker in the following seminars since 2013: University of Jyväskylä Analysis & Geometry Seminars, Aalto University Analysis and Geometry seminar and Helsinki University seminar of geometric analysis.

## **Selected public lectures**<sup>1</sup>

9.11.2019:	FysikerFest 2019. <i>Mathematical information in nature and popular culture.</i>
13.3.2018:	SIAM SC seminar at the Charles University. A gentle introduction to (persistent) homology.
1.4.2016:	HIIT Kumpula Seminar. Making things the hard way – Turing complete interior design.
17.9.2015:	StS. Probability theory is nothing but common sense reduced to calculus.
4.12.2014:	StS. Detecting forged data with mathematics.
12.12.2013:	Askola HS science days. Sharing passwords and Mathematical robotics.
28.9.2013:	Lecture in the Night of Mathematics in the Heureka science center. <i>Joukkoäly (The wisdom of crowds)</i>
25.4.2013:	StS. Why is it hard to define a good product in the euclidean space?
15.11.2012:	Askola HS science days. <i>Mathematical cryptography</i> and <i>Tic-Tac-Toe on a torus</i> .
22.9.2012:	A short appearance in a Finnish TV show called Puoli Seitsemän to calculate some probabilities connected to sports.
13.10.2011:	StS. Monistojen perusryhmistä (On the fundamental groups of manifolds).
19.10.2010:	Summammutikka-club. Alkuluvut ja salaus (Prime numbers and cryptography).
21.10.2009:	StS. Quasihyperbolic metric.

 $<sup>^{1}</sup>$ StS. := Student seminar of the department of mathematics and statistics at Helsinki University.

# Teaching

Have supervised one master's thesis two bachelor's theses. Was the second reader in further two master's theses.

### Pedagogical training and expertise

2012-2019:	Basic studies in university pedagogics (25 ECTS credits), University of Jyväskylä.
2019:	Pedagogical peer-reviewed article, joint with Juulia Lahdenperä, <i>Using dia-</i> <i>logue teaching to popularise university mathematics</i> . (In preparation)
Fall 2016:	Pedagogical article in a magazine for STEM teachers, joint with Juulia Lahden- perä, based on the experiences gained in the experimental co-lectured course "Getting familiar with mathematics". <i>Dimensio</i> 4/2016, p.53.
8.6.2016:	Conference presentation on Mathematical pedagogigs at ISSE and LUMA days 2016, Lahti.

#### Books

- **2017:** *MAB4 Matemaattisia Malleja* (An e-book for high school mathematical models, in finnish.) Joint with Hanna Hellsten, Lauri Hellsten and Kai Nurmi.
- **2016:** *MAB3 Geometria* (An e-book for high school geometry, in finnish.) Joint with Hanna Hellsten, Lauri Hellsten and Pia Vikberg.

### Miscellaneous skills

Using Ubuntu, LATEX and emacs on a daily basis, with pictures prepared with PyX, Metapost, TikZ or Gimp. Most programming and scripting needs are satisfied with Python, experience also with Java and Matlab/Octave. Rudimentary knowledge of HTML, CSS and PHP. Geogebra and Desmos are used in almost all teaching, with familiarity with the STACK system in Moodle. Native in Finnish, fluent in English, basic conversational skills in Swedish and German, and basics of Czech. An amateur safe-cracker and locksporter.

# Academical excursions

11.54.6.2019:	Research visit to SBU, University of Pittsburgh and UCONN
12.42.5.2018:	Research visit to UIUC, Illinois and UCLA, California
2628.4.2016:	Research visit to École Polytechnique Féderalé de Lausanne, Switzerland
29.115.2.2016:	Research visit to UIUC, Illinois and University of Pittsburgh
3.55.6. 2015:	Research term on Analysis and Geometry in Metric Spaces, ICMAT, Madrid
1330.5.2013:	Interactions Between Analysis and Geometry -program. IPAM, Los Angeles
18.31.6.2012:	Research visit to universities in Ann Arbor, Urbana-Champaign and Purdue

# Selected attended conferences

2529.11.2019	Professor Koskela's 59th birthday conference, Bedlewo.
1620.7.2018	Geometric Function Theory in Fluid Mechanics, Barcelona.
914.7.2018	Nonlinear Analysis, Function Spaces and Applications, Prague.
26.7.2018	New Developments in Complex Analysis and Function Theory, Heraklion.
1820.6.2018:	Seppo Rickman Memorial Conference, Helsinki
48.6.2018:	Geometric Measure theory and its connections, Helsinki
13.10.2017:	Leipzig-Prague weekend meeting, Labská Stráň, Czech Republic.
2629.6.2017:	10:th School on Analysis and Geometry in Metric Spaces, Trento, Italia
1216.6.2017:	Rolf Nevanlinna Colloquium, Zürich
11.715.7.2016:	Geometric analysis on Riemannian and singular metric spaces, Como, Italy
1518.3.2016:	27:th Nordic Congress of Mathematicians, Stockholm
1013.12.2015:	Quasiweekend II - Ten years after, Helsinki (Technical assistant)
1417.10.2015:	GFT meets GGT, IMPAN, Warsaw
1721.8.2015:	25:th Jyväskylä summer school
2131.5.2015:	Conference on Modern Trends in Complex Analysis, Würzburg, Germany
1117.1.2015:	Young Geometric Group Theory IV, Spa, Belgium
1122.8.2014:	24:th Jyväskylä summer school
1620.6.2014:	Eighth School on Analysis and Geometry in Metric Spaces, Trento, Italia
2428.3.2014:	Asymptotic Properties of Infinite Groups, IHP Paris
2731.1.2014:	Random walks on groups, IHP, Paris
910.1.2014:	FinEst Math 2014, Helsinki
30.94.10.2013:	School in Geometric Analysis, Como, Italy
1112.8.2013:	Fred Gehring Memorial Conference, Helsinki (Technical assistant)
59.8.2013:	Rolf Nevanlinna Colloquium, Helsinki (Technical assistant)
1324.8.2012:	22:nd Jyväskylä summer school
27.7.2012:	6th European Congress of Mathematics, Krakow
1115.6.2012:	Pisa summer school, Pisa
59.3.2012:	Harmonic and Complex Analysis and its Applications, Tenerife.
45.1.2012:	Finnish mathematical days, Lappeenranta, Finland
2024.6.2011:	Seventh School on Analysis and Geometry in Metric Spaces, Trento, Italia