

Jori Merikoski

Curriculum Vitae

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Education

2013–2016 **Master of Science (M.Sc.)**, *University of Helsinki*, Helsinki, Finland.
Major: Mathematics (Mathematical analysis). 120 credits.

2013–2016 **Bachelor of Science (B.Sc.)**, *University of Helsinki*, Helsinki, Finland.
Mathematics. Minors: Physics, Theoretical physics. 180 credits

Theses

M.Sc. Exponential sums and the distribution of prime numbers, Master's thesis, University of Helsinki. *Accepted 7.6.2016*. Available from: <https://helda.helsinki.fi/handle/10138/163078>

B.Sc. Phragménin-Lindelöfin lause ja Riemannin zeta-funktio, Bachelor's thesis, University of Helsinki. *Accepted 8.3.2015*.

Work experience

1.8.2017 – **PhD candidate**, *University of Turku, Department of Mathematics and Statistics*, Turku, Finland, Supervisor: Prof. Kaisa Matomäki.

1.6.2016 –31.12.2016 **Research assistant**, *University of Helsinki, Department of Mathematics and Statistics*, Helsinki, Finland, Research on Banach space valued functions (under guidance of Prof. Tuomas Hytönen).

Publications

Merikoski, J. *On totally split primes in high-degree torsion fields of elliptic curves*. Under review, 2020.

Merikoski, J. *On the largest prime factor of $n^2 + 1$* . To appear in J. Eur. Math. Soc., 2020.

Merikoski, J. *On the largest square divisor of shifted primes*. Acta Arith., 2020.

Merikoski, J. *Limit points of normalized prime gaps*. J. Lond. Math. Soc. 102(1):99–124, 2020.

Merikoski, J. *Large prime factors on short intervals*. Math. Proc. Cambridge Philos. Soc., 2020.

Hytönen, T. & Merikoski, J. *Vector-valued local approximation spaces*. J. Fourier Anal. Appl. 25(2):299–320, 2019.

Grants

2017 **Magnus Ehrnrooth Foundation**, *For funding PhD studies (23 000 €)*.

2017 **Finnish Cultural Foundation**, *For funding PhD studies (16 000 €).*

Research visits

25.11.2019 – **EPFL Lausanne**.
29.11.2019

5.8.2019 – **NTNU Trondheim**.
9.8.2019

1.9.2018 – **ETH Zürich**, (under supervision of Prof. Emmanuel Kowalski).
20.12.2018

Invited conference talks

9/2020 **MFO Oberwolfach**, *Automorphic Forms and Arithmetic*.

Invited seminar talks

11/2019 **EPFL Lausanne**.

8/2019 **NTNU Trondheim**.

12/2018 **IHP Paris**, *Rencontres de théorie analytique et élémentaire des nombres*.

Conferences and workshops participated

9/2020 **MFO Oberwolfach**, *Automorphic Forms and Arithmetic*.

7/2019 **Cetraro, Italy**, *Second Symposium on Analytic Number Theory*.

6/2019 **Zurich, Switzerland**, *Arithmetic, geometry, and modular forms: a conference in honour of Bill Duke*.

3/2019 **Wako (Riken), Japan**, *ZetaValue2019 — Conference on distribution of values of zeta functions and L-functions*.

1/2019 **Monte Verità, Switzerland**, *Winter school: Trace functions and their applications*.

8/2018 **Bonn, Germany**, *Elementare und Analytische Zahlentheorie (ELAZ)*.

6/2018 **Bristol, UK**, *Perspectives on the Riemann Hypothesis*.

5/2018 **Montreal, Canada**, *Workshop: Probability in Number Theory*.

9/2017 **Poznan, Poland**, *Number Theory Week 2017*.

Language skills

English (fluent)

Finnish (native)

Swedish (basics)