

Lola Thompson

BASIC INFORMATION:

Citizenship: United States

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Languages: English (native), Spanish (B2/C1), Dutch (B1), German (A2)

APPOINTMENTS HELD:

Utrecht University

Associate Professor

July 2020 - present

Oberlin College

Associate Professor

July 2019 - April 2020

Assistant Professor

July 2013 - June 2019

The University of Georgia

VIGRE Postdoctoral Fellow

August 2012 - July 2013

Research Mentor: Paul Pollack

RESEARCH VISITS:

Hausdorff Institute for Mathematics

Trimester Program Participant

May 2021

Max-Planck-Institut für Mathematik

Guest/Research Visitor

September 2019 - July 2020

Guest/Research Visitor

August 2016 - December 2016

Mathematical Sciences Research Institute

Research Member

January 2017 - May 2017

Dartmouth College

Shapiro Visitor

May 2015

EDUCATION:

Ph.D. in Mathematics, Dartmouth College

June 2012

Adviser: Carl Pomerance

Thesis: *Products of distinct cyclotomic polynomials*

M.A. in Mathematics, Dartmouth College

June 2009

B.S. in Mathematics, University of Chicago

June 2007

B.A. in Economics, University of Chicago

June 2007

RESEARCH PUBLICATIONS:

23. Sums of proper divisors with missing digits.

Submitted for publication.

Joint with Kübra Benli, Giulia Cesana, Cécile Dartyge, and Charlotte Dombrowsky.

22. Summing $\mu(n)$: a faster elementary algorithm.

Research in Number Theory, **9**, no. 6 (2023), 1–37.

Joint with Harald Andrés Helfgott.

21. Counting Salem numbers of arithmetic hyperbolic 3-orbifolds.

Bulletin of the Brazilian Mathematical Society, New Series, **53** (2022), 553–569.

Joint with Mikhail Belolipetsky, Matilde Lalin, and Plinio G. P. Murillo.

20. The Fourier coefficients of Eisenstein series newforms.

Contemporary Mathematics, **732** (2019), 169 – 176.

Joint with Benjamin Linowitz.

19. Counting and effective rigidity in algebra and geometry.

Inventiones Mathematicae, **213**, no. 2 (2018), 697 – 758.

Joint with Benjamin Linowitz, D. B. McReynolds, Paul Pollack.

18. **Divisor-sum fibers.**
Mathematika, **64**, no. 2 (2018), 330–342.
 Joint with Paul Pollack and Carl Pomerance.
17. **Lower bounds for heights in relative Galois extensions.**
Contributions to Number Theory and Arithmetic Geometry, Springer AWMS **11** (2018), 1–17.
 Joint with Kevser Aktas, Shabnam Akhtari, Kirsti Biggs, Alia Hamieh, and Kathleen Petersen.
16. **A generalization of the practical numbers.**
International Journal of Number Theory, **14**, no. 5 (2018), 1487–1503.
 Joint with Nicholas Schwab.
15. **Systoles of arithmetic hyperbolic surfaces and 3-manifolds.**
Mathematical Research Letters, **24**, no. 5 (2017), p. 1497 – 1522.
 Joint with Benjamin Linowitz, D. B. McReynolds, Paul Pollack.
14. **Bounded gaps between primes and the length spectra of arithmetic hyperbolic 3-orbifolds.**
Comptes Rendus Mathématique, **355**, no. 11 (2017), p. 1121–1126.
 Joint with Benjamin Linowitz, D. B. McReynolds, and Paul Pollack.
13. **On integers n for which $x^n - 1$ has a divisor of every degree.**
Acta Arithmetica **175**, no. 3 (2016), p. 225–244.
 Joint with Carl Pomerance and Andreas Weingartner.
12. **Arithmetic functions at consecutive shifted primes.**
International Journal of Number Theory **11**, no. 5 (2015), p. 1477–1498.
 Joint with Paul Pollack.
11. **Bounded gaps between primes in number fields and function fields.**
Proceedings of the American Mathematical Society **143** (2015), p. 2841–2856.
 Joint with Abel Castillo, Chris Hall, Robert Lemke Oliver, and Paul Pollack.
10. **The sign changes of Fourier coefficients of Eisenstein series.**
The Ramanujan Journal **37**, no. 2 (2015), p. 223–241.
 Joint with Benjamin Linowitz.
9. **Abelian surfaces with prescribed groups.**
Bulletin of the London Mathematical Society **46** (2014), p. 779–792.
 Joint with Chantal David, Derek Garton, Zachary Scherr, Arul Shankar, and Ethan Smith.
8. **Variations on a question concerning the degrees of divisors of $x^n - 1$.**
Journal de Théorie des Nombres Bordeaux. **26**, no. 1 (2014), p. 253–267.
7. **Variations on a theorem of Davenport concerning abundant numbers.**
Bulletin of the Australian Mathematical Society **89**, no. 3 (2014), p. 437–450.
 Joint with Emily Jennings and Paul Pollack.
6. **Distribution of squarefree values of sequences associated with elliptic curves.**
Contemporary Mathematics **606**, Amer. Math. Soc. (2013), p. 171–188.
 Joint with Shabnam Akhtari, Chantal David, and Heekyoung Hahn.
5. **Practical pretenders.**
Publicationes Mathematicae Debrecen **82** (2013), p. 651–667.
 Joint with Paul Pollack.
4. **On the degrees of divisors of $T^n - 1$.**
New York Journal of Mathematics **19** (2013), p. 91–116.
 Joint with Paul Pollack.
3. **On the divisors of $x^n - 1$ in $\mathbb{F}_p[x]$.**
International Journal of Number Theory **9**, no. 2 (2013), p. 421–430.
2. **Polynomials with divisors of every degree.**
Journal of Number Theory **132** (2012), p. 1038–1053.
1. **Heights of divisors of $x^n - 1$.**
Integers **11A**. Proceedings of the Integers Conference 2009 (2011). Article 20, p. 1–9.
0. **Products of distinct cyclotomic polynomials.**
 Ph.D. thesis, Dartmouth College (2012).

EXPOSITORY PAPERS, SURVEY ARTICLES, OTHER MATHEMATICAL WRITING:

6. Lola Thompson, **(Mind the) gaps between primes.**
Nieuw Archief voor Wiskunde, 5/22 no. 4, December 2021, p. 212 - 218.
5. Lola Thompson, **Changing the center of gravity of mathematics conferences.**
Book chapter in *Practices and Policies: Advocating for Students of Color in Mathematics*, edited by Pamela E. Harris and Aris Winger, 2021.
4. Lola Thompson, **Counting and effective rigidity in algebra and geometry.**
Mathematisches Forschungsinstitut Oberwolfach. Report No. 50/2019, pp. 55–58.
DOI: 10.4171/OWR/2019/50.
3. Lola Thompson, **Nowhere to go but up.**
Living Proof: Stories of Resilience Along the Mathematical Journey. Edited by A. Henrich, E. Lawrence, M. Pons, and D. Taylor. Jointly published by the American Mathematical Society and the Mathematical Association of America, 2019, pp. 21–23.
2. Lola Thompson, **An Euler φ -for-all.**
Girls' Angle Bulletin, June 2013.
1. Lola Thompson, **On the divisors of $x^n - 1$.**
Electron. Notes Discrete Math. **43** (2013), 141–149.

PERSONAL GRANTS/FELLOWSHIPS/AWARDS:**Selfridge Prize**, 2022.

Awarded for the best contributed paper at ANTS XV (shared with Harald Andrés Helfgott)

Max Planck Institute for Mathematics Research Fellowship, 2019.

Awarded €28,000 to support my research during the 2019-2020 academic year.

Oberlin College Curriculum Development Grant, 2018.

Awarded \$3500 to develop a new course on mathematics and the arts.

AMS ICM Travel Grant, 2018.

Awarded \$3300 for travel to the International Congress of Mathematicians in Rio de Janeiro in August 2018.

Mathematical Sciences Research Institute Fellowship, 2017.

Awarded \$7,000 to support research during my sabbatical.

Max Planck Institute for Mathematics Research Fellowship, 2016.

Awarded €11,500 to support research during my sabbatical.

AMS Simons Travel Grant, 2014 - 2017.

Awarded \$4,000 by the American Mathematical Society and the Simons Foundation.

AWM-NSF Travel Grant, 2014.

Awarded \$1,670 for travel to the Hausdorff Center for Mathematics in July 2014.

MAA Project NExT Leitzel Fellowship, 2013 - 2014.**MRC Collaboration Grant**, sponsored by AMS / NSF, 2012 - 2013.**NSF VIGRE Postdoctoral Fellowship**, The University of Georgia, August 2012 - July 2013.**NSF GAANN Graduate Fellowship**, September 2011 - June 2012.**Award for Best Poster**, Dartmouth Graduate Poster Session, April 2012.

Chosen from among 45 presenters across scientific disciplines at Dartmouth for giving a clear presentation aimed at non-mathematicians on my thesis research.

CONFERENCE GRANTS:**Banff International Research Station-Casa Matematica Oaxaca.**

Awarded funding to cover lodging, food, and research facilities for a 15-person workshop that will take place at the BIRS-CMO facility in Oaxaca, Mexico (September 8-13, 2024).

Co-PIs: Harald Helfgott, Moubariz Garaev, Plinio Pino Murillo.

Banff International Research Station-Casa Matematica Oaxaca.

Awarded funding to cover lodging, food, and research facilities for a 42-person workshop that took place at the BIRS-CMO facility in Oaxaca, Mexico (August 11-16, 2019).

Co-PIs: Harald Helfgott, Moubariz Garaev.

MSRI Summer Research for Women In Mathematics.

Awarded \$10,000 for a collaboration workshop on Height Functions and Lehmer-type Problems (July 22 - August 2, 2019).

Co-PIs: Keuser Aktaş, Shabnam Akhtari, Kirsti Biggs, Alia Hamieh, and Kathleen Petersen.

Heilbronn Institute Focused Research Group.

Awarded £7,500 for a workshop on Height Functions and Lehmer-type Problems (October 22-26, 2018).

Co-PIs: Keuser Aktaş, Shabnam Akhtari, Kirsti Biggs, Alia Hamieh, and Kathleen Petersen.

Number Theory Foundation Grant.

Awarded \$5,805.20 for the Carl Pomerance 70th Birthday Conference in Athens, GA (June 8-11, 2015).

Co-PIs: Paul Pollack, Robert Rumely, Gang Yu.

NSF Grant DMS1502336.

Awarded \$20,576 for the Carl Pomerance 70th Birthday Conference in Athens, GA (June 8-11, 2015).

Co-PIs: Paul Pollack, Robert Rumely, Gang Yu.

NSF Grant DMS1500710.

Awarded \$19,220 for the 29th Automorphic Forms Workshop in Ann Arbor, MI (March 2-5, 2015).

Co-PIs: Mahesh Agarwal, Benjamin Linowitz.

Number Theory Foundation Grant.

Awarded \$4,920 for the 29th Automorphic Forms Workshop in Ann Arbor, MI (March 2-5, 2015).

Co-PIs: Mahesh Agarwal, Benjamin Linowitz.

NSA Grant #131015.

Awarded \$15,788 for the Carl Pomerance 70th Birthday Conference in Athens, GA (June 8-11, 2015).

Co-PIs: Paul Pollack, Robert Rumely, Gang Yu.

Beatrice Yormark Fund For Women In Mathematics.

Awarded \$5,000 for the Women In Sage 5 workshop in Portland, OR (July 28-August 1, 2014).

Co-PI: Anna Haensch.

Microsoft Research.

Awarded \$5,000 for the Women In Sage 5 workshop in Portland, OR (July 28-August 1, 2014).

Co-PI: Anna Haensch.

CONFERENCES AND SEMINARS ORGANIZED:

Women in Sage Uganda

Scientific Committee (with Betty Kivumbi Nanyonga, Elisa Lorenzo Garcia, Marie Françoise Ouedraogo, David Ssevviiri, Alex Samuel Bamunoba, Olivia Nabawanda, Annet Kyomuhangi)
Makerere University, Uganda, September 4 - 8, 2023.

Intercity Number Theory Seminar

Organizer.
Utrecht University, Netherlands, May 17, 2023.

LENT Seminar (Utrecht University)

Co-organizer with Gunther Cornelissen.
Utrecht University, Netherlands, November 2022 - present.

LatinX in the Mathematical Sciences Conference, Special Session on *Number Theory*

Co-organizer (with Ricardo Conceição).
Institute for Pure and Applied Mathematics, Los Angeles, July 7 - 9, 2022.

Online Number Theory Lunch Seminar

Co-organizer (with Pieter Moree).
Bonn, Germany, July 1 - 31, 2020.

BIRS-CMO Workshop on *Number Theory In the Americas*

Co-organizer (with Moubariz Garaev and Harald Helfgott).
Oaxaca, Mexico, August 11 - 16, 2019.

AMS Special Session on *A Showcase of Number Theory at Undergraduate Institutions*

Co-organizer (with Adriana Salerno).
Joint Mathematics Meetings, Baltimore, January 16, 2019.

AMS Special Session on *A Showcase of Number Theory at Liberal Arts Colleges*

Co-organizer (with Adriana Salerno).
Joint Mathematics Meetings, San Diego, January 10, 2018.

Carl Pomerance 70th Birthday Conference

Co-organizer (with Paul Pollack, Robert Rumeley and Gang Yu).
University of Georgia, June 9 - 11, 2015.

Automorphic Forms Workshop

Co-organizer (with Benjamin Linowitz and Mahesh Agarwal).
University of Michigan, March 2 - 5, 2015.

Cleveland Area Number Theory Seminar

Founder and Co-organizer (with Gang Yu). Cleveland, OH, March 2015 - May 2019.

Sage Days 62: Women in Sage 5

Co-organizer (with Anna Haensch).
Portland, OR, July 28 - August 1, 2014.

Panel Discussion on *Tried and true practices for IBL and active learning*

Panel Moderator and Co-organizer (with Susan Crook, William Lindsey and Taylor Martin).
Project NExT, AMS/MAA Joint Mathematics Meetings (2014).

Sage Days 42: Women in Sage 3

Co-organizer (with Jennifer Balakrishnan and Alyson Deines).
University of Washington, July 15 - 19, 2012.

Dartmouth College Number Theory Seminar

Organizer, September 2008 - June 2010.

RESEARCH WORKSHOPS ATTENDED:**Workshop on Analytic Number Theory**

Mathematisches Forschungsinstitut Oberwolfach (Oberwolfach, Germany), November 6 - 12, 2022.

ESI Workshop on Arithmetic Statistics and Local-Global Principles

Erwin Schrödinger Institute (Vienna, Austria), September 20 - 24, 2021.

MSRI Introductory Workshop: Random and Arithmetic Structures in Topology

Mathematical Sciences Research Institute (virtually), August 25 - September 11, 2020.

Workshop on Analytic Number Theory

Mathematisches Forschungsinstitut Oberwolfach (Oberwolfach, Germany), November 3 - 9, 2019.

Sarnak's Conjecture

American Institute of Mathematics (San Jose, CA, USA), December 10 - 14, 2018.

Aritmética, Grupos y Analisis III

Academia Nacional de Ciencias (Cordoba, Argentina), July 9-20, 2018.

MSRI Recent Developments in Analytic Number Theory

Mathematical Sciences Research Institute, May 2017.

Workshop on Efficient Congruencing and Translation-invariant Systems

Fields Institute (Toronto, ON, Canada), March 2017.

MSRI Introductory Workshop: Analytic Number Theory

Mathematical Sciences Research Institute, February 2017.

MSRI Connections for Women: Analytic Number Theory

Mathematical Sciences Research Institute, February 2017.

Women in Numbers Europe 2

Lorentz Center (Leiden, Netherlands), September 2016.

re:boot Number Theory 2016

Duke University, March 2016.

Bounded gaps between primes

American Institute of Mathematics, November 2014.

Sage Days 62: Women in Sage 5

Co-organizer (with Anna Haensch), Portland, OR, July 2014.

ELEFANT: Emerging Leaders and Evolving Frontiers in Analytic Number Theory & ENFANT: Exciting New Faces in Analytic Number Theory

Hausdorff Center for Mathematics (Bonn, Germany), July 2014.

Workshop on Polynomials Over Finite Fields

Centre de Recerca Matemàtica (Barcelona, Spain), May 2014.

Arithmetic Statistics Over Finite Fields and Function Fields

American Institute of Mathematics, January 2014.

AWM Workshop, Joint Mathematics Meetings, January 2013.

One of six recent Ph.D. recipients funded to present a talk at the annual AWM Workshop.

Sage Days 42: Women in Sage 3

Co-organizer (with Jennifer Balakrishnan and Alyson Deines),
University of Washington, July 2012.

Arithmetic Statistics

AMS Mathematics Research Communities, June 2012.

Women In Numbers 2

Banff International Research Station (Banff, Canada), November 2011.

Sage Days 33: Women in Sage 2

University of Washington, September 2011.

AMS MRC Workshop on The Pretentious View of Analytic Number Theory

AMS Mathematics Research Communities, June 2011.

MSRI Introductory Workshop: Arithmetic Statistics

Mathematical Sciences Research Institute, February 2011.

MSRI Connections for Women: Arithmetic Statistics

Mathematical Sciences Research Institute, January 2011.

Sage Days 26: Women in Sage

Microsoft Research & University of Washington, December 2010.

PLENARY TALKS, PUBLIC LECTURES, AND INVITED LECTURE SERIES:

Integers Conference

University of Georgia (Athens, GA, USA), May 17-20, 2023.
Plenary talk.
Talk title: “Summing $\mu(n)$: an even faster elementary algorithm”

Novenas Jornadas de Teoría de Números

Universidad de La Rioja (Logroño, Spain), June 29, 2022.
Plenary talk.
Talk title: “Sumar $\mu(n)$: un algoritmo elemental más rápido”

Congreso Multidisciplinario de Matemáticas UNI 2021

Universidad Nacional de Ingeniería (Lima, Peru), March 16, 2021.
Plenary talk.
Talk title: “Sumar $\mu(n)$: un algoritmo elemental más rápido”

Winter Symposium of the Dutch Royal Mathematics Society

Utrecht University (Utrecht, Netherlands), January 9, 2021.
Public Lecture.
Talk title: “(Mind the) gaps between primes.”

Number Theory Down Under 2020

University of Melbourne (Melbourne, Australia), October 8, 2020.
Plenary Talk.
Talk title: “Summing $\mu(n)$: an even faster elementary algorithm.”

Integers Conference 2020

Augusta University (Augusta, Georgia, USA), October 1 - 4, 2020.
Plenary talk.
Talk title: “Summing $\mu(n)$: a faster elementary algorithm.”
Cancelled due to pandemic.

MSRI Introductory Workshop on Random and Arithmetic Structures in Topology

Mathematical Sciences Research Institute (Berkeley, CA, USA), August 31 - September 4, 2020.
Series of invited lectures (3 hours).
Talk titles: “Tools for counting quaternion algebras,” “Quantitative questions in spectral geometry,” and “Bounded gaps between volumes of orbifolds.”

Workshop on advances in the geometry and isospectrality of locally symmetric spaces

Korea Institute of Advanced Study (Seoul, South Korea), April 15 - 19, 2019.
Series of invited lectures (3 hours).
Talk titles: “Counting techniques in number theory, with applications to spectral geometry” and “Counting and effective rigidity in algebra and geometry.”

MAA Ohio Section Meeting

Sinclair College (Dayton, OH), March 31 - April 1, 2017.
Series of 2 plenary lectures.
Talk titles: “Twin primes and their kin” and “Bounded gaps between primes.”

Southeastern Conference For Undergraduate Women In Mathematics

Clemson University (Clemson, SC), November 16, 2014.
Plenary talk.
Talk title: “Twin primes and their kin.”

RESEARCH TALKS:

Summing $\mu(n)$: a faster elementary algorithm

Luxembourg Number Theory Day December 10, 2022.

Salem numbers and short geodesics

Arithmétique en plat pays/Getaltheorie in het Vlakke land September 23, 2022.

Summing $\mu(n)$: a faster elementary algorithm

Algorithmic Number Theory Symposium (ANTS) XV August 10, 2022.

Summing $\mu(n)$: an even faster elementary algorithm

University of Kent Mathematics Colloquium May 27, 2022.

Summing $\mu(n)$: an even faster elementary algorithm

Heilbronn Seminar, University of Bristol May 25, 2022.

- Summing $\mu(n)$: an even faster elementary algorithm**
Warwick Number Theory Seminar May 23, 2022.
- Summing $\mu(n)$: an even faster elementary algorithm**
Nancy-Metz Number Theory Seminar May 12, 2022.
- Summing $\mu(n)$: an even faster elementary algorithm**
University of Göttingen Oberseminar in Number Theory November 22, 2021.
- Summing $\mu(n)$: an even faster elementary algorithm**
Rencontre de théorie analytique des nombres, Institut Henri Poincaré October 18, 2021.
- Summing $\mu(n)$: an even faster elementary algorithm**
Séminaire Théorie des Nombres, Institut de Mathématiques de Bordeaux October 8, 2021.
- Summing $\mu(n)$: an even faster elementary algorithm**
Kansas State University Number Theory Seminar April 19, 2021.
- Summing $\mu(n)$: an even faster elementary algorithm**
Webinar in Additive Combinatorics April 12, 2021.
- Summing $\mu(n)$: an even faster elementary algorithm**
DIAMANT session, Nederlands Mathematisch Congres April 6, 2021.
- Sumar $\mu(n)$: un algoritmo elemental más rápido**
LaTeN: Seminario Latinoamericano de Teoría de Números March 11, 2021.
- Summing $\mu(n)$: an even faster elementary algorithm**
AMS/MAA Joint Meetings (virtual) January 6, 2021.
AMS Special Session on A Showcase of Number Theory at Undergraduate Institutions
- Summing $\mu(n)$: an even faster elementary algorithm**
MIT Number Theory Seminar (Cambridge, MA, USA) December 8, 2020.
- Counting quaternion algebras, with applications to spectral geometry**
Vanderbilt Number Theory Seminar (Nashville, TN, USA) December 1, 2020.
- Counting quaternion algebras, with applications to spectral geometry**
Number Theory seminar of Saint Petersburg State University and
Euler International Mathematical Institute (St. Petersburg, Russia) November 12, 2020.
- Counting quaternion algebras, with applications to spectral geometry**
Utrecht Geometry Center Seminar, Utrecht University (Utrecht, Netherlands) October 27, 2020.
- Summing $\mu(n)$: a faster elementary algorithm**
Nancy-Metz Number Theory Seminar, Institut Élie Cartan (Nancy, France) April 2, 2020.
Cancelled due to pandemic.
- Bounded gaps between primes and volumes of manifolds**
Arithmetic groups and 3-manifolds conference,
University of Hagen (Hagen, Germany) – cancelled due to pandemic March 23 - 27, 2020.
- Summing $\mu(n)$: a faster elementary algorithm**
Recontres de théorie analytique et élémentaire des nombres,
Institut Henri Poincaré (Paris, France) – cancelled due to pandemic March 16, 2020.
- Summing $\mu(n)$: a faster elementary algorithm**
Number Theory Lunch Seminar,
Max Planck Institute for Mathematics (Bonn, Germany) February 19, 2020.
- Bounded gaps between primes and volumes of manifolds**
Colloquium, UC Santa Cruz (Santa Cruz, CA, USA) January 30, 2020.
- Summing $\mu(n)$: a faster elementary algorithm**
AMS/MAA Joint Meetings (Denver, CO, USA) January 18, 2020.
- Bounded gaps between primes and volumes of manifolds**
Max Planck Institute for Mathematics (Bonn, Germany) December 5, 2019.
- Counting quaternion algebras with applications to spectral geometry**
N-cube days XI (Göteborg, Sweden) November 15, 2019.
- Counting and effective rigidity in algebra and geometry**
Mathematisches Forschungsinstitut Oberwolfach (Oberwolfach, Germany) November 7, 2019.
- Counting quaternion algebras with applications to spectral geometry**
Seminar ABKLS (Köln, Germany) September 11, 2019.
- Sumas de divisores** (delivered in Spanish)
XXIII Coloquio Latinoamericano de Álgebra (Mexico City, Mexico) August 9, 2019.
- Bounded gaps between primes and volumes of manifolds**
Invited Talk, Utrecht University (Utrecht, Netherlands) April 10, 2019.

The Fourier coefficients of Eisenstein series newforms	33rd Automorphic Forms Workshop, Duquesne University	March 8, 2019.
Counting quaternion algebras with applications to spectral geometry	Number Theory Seminar, The Ohio State University	January 28, 2019.
Counting quaternion algebras	AMS/MAA Joint Meetings, AMS Invited Paper Session on Counting Methods in Number Theory.	January 18, 2019.
Gaps between primes and the length spectra of arithmetic hyperbolic surfaces	AMS/MAA Joint Meetings, AMS Special Session on Number Theory and Hyperbolic Geometry.	January 17, 2019.
Counting quaternion algebras	Canadian Mathematical Society Winter Meeting, CMS Special Session on Distributions in Analytic Number Theory. Geometric and Analytic Number Theory (Goettingen, Germany) Max Planck Institute for Mathematics Number Theory Lunch Seminar International Conference On Mathematics and Statistics (Memphis, TN)	December 9, 2018. November 22, 2018. June 27, 2018. May 8, 2018.
Bounded gaps between primes and the length spectra of arithmetic hyperbolic 2-orbifolds	Heilbronn Number Theory Seminar (Bristol, UK)	October 24, 2018.
Sumas de divisores (delivered in Spanish)	Instituto de Matemática y Ciencias Afines (Lima, Peru)	August 17, 2018.
Counting and effective rigidity in algebra and geometry	University of Goettingen Number Theory Seminar University of Wisconsin – Madison Number Theory Seminar	June 13, 2018. April 5, 2018.
Espacios entre primos (delivered in Spanish)	Universidad Mayor de San Andrés (La Paz, Bolivia) Universidad de La Habana (Havana, Cuba) Instituto de Matemática y Ciencias Afines (Lima, Peru)	July 30, 2018. January 4, 2018. August 21, 2017.
Divisor-sum fibers	Elementare und Analytische Zahlentheorie (ELAZ), Bonn, Germany Combinatorial and Additive Number Theory (CANT), New York, NY University of South Carolina Mid-Atlantic Seminar On Numbers II Number Theory Week 2017 (Poznan, Poland) Vilnius Conference in Combinatorics and Number Theory (Vilnius, Lithuania)	September 4, 2018. May 24, 2018. April 13, 2018. April 7, 2018. September 4, 2017. July 17, 2017.
Bounded gaps between primes and the length spectra of arithmetic hyperbolic 3-orbifolds	University of Georgia Number Theory Seminar Mathematical Congress of the Americas (Montréal, QC, Canada) Georg-August-Universität zu Göttingen Number Theory Seminar Max Planck Institute Number Theory Seminar (Bonn, Germany).	January 24, 2018. July 27, 2017. July 10, 2017. July 5, 2017.
(Mind the) gaps between primes	University of Georgia Graduate Student Seminar. Ross Mathematics Program 60 th Reunion and Conference.	January 23, 2018. June 17, 2017.
Sums of distinct divisors	MSRI Connections for Women: Analytic Number Theory	February 3, 2017.
Counting quaternion algebras	AMS/MAA Joint Meetings, AMS Special Session on Discrete Structures in Number Theory.	January 5, 2017.
Polynomials with divisors of every degree	Max Planck Institute Number Theory Seminar (Bonn, Germany).	December 19, 2016.
Prime gaps	Universität zu Köln Oberseminar Zahlentheorie (Cologne, Germany).	December 12, 2016.
Runs of consecutive primes	Heilbronn Number Theory Seminar (Bristol, UK). Max Planck Institute Number Theory Seminar (Bonn, Germany).	October 12, 2016. August 10, 2016.
Heights of algebraic integers	Women In Numbers Europe 2 Conference (Leiden, Netherlands).	September 30, 2016.
The sign changes of Fourier coefficients of Eisenstein series.	Building Bridges Workshop (Sarajevo, Bosnia and Herzegovina).	July 18, 2016.
On integers n for which $x^n - 1$ has a divisor of every degree	Canadian Number Theory Association Meeting (Calgary, AB, Canada).	June 23, 2016.

Bounded gaps between primes	
University of Oregon Number Theory Seminar.	May 17, 2016.
Central Michigan University Mathematics Department Colloquium.	December 17, 2015.
Dartmouth College Mathematics Department Colloquium.	May 21, 2015.
Kent State University Mathematics Department Colloquium.	April 16, 2015.
North Dakota State University Mathematics Department Colloquium.	March 24, 2015.
Polynomials with divisors of every degree	
Duke University Number Theory Seminar.	November 4, 2015.
Runs of consecutive primes via the Maynard-Tao method	
AMS Special Session on Analytic Methods in Elementary Number Theory.	
AMS Sectional Meeting (Huntsville, AL),	March 28, 2015.
Arithmetic functions at consecutive shifted primes.	
American Institute of Mathematics.	November 20, 2014.
Applications of the Maynard-Tao method.	
AMS Special Session on Interactions between Geometry, Group Theory, and Number Theory.	
AMS Sectional Meeting (East Lansing, MI),	March 15, 2015.
Clemson University Number Theory Seminar.	November 14, 2014.
Exciting New Faces In Analytic Number Theory (Bonn, Germany).	July 12, 2014.
Abelian surfaces over finite fields with prescribed groups.	
AMS/MAA Joint Meetings,	January 16, 2014.
AMS Special Session on Analytic Number Theory.	
AMS Sectional Meeting (Riverside, CA),	November 2, 2013.
Special Session on Heights, Diophantine problems, and lattices.	
Sums of multiplicative arithmetic functions over abundant numbers.	
Integers Conference.	October 27, 2013.
Palmetto Number Theory Series XX.	September 8, 2013.
Statistical questions about arithmetic objects	
University of Georgia Number Theory Seminar.	April 10, 2013.
University of South Carolina Number Theory Seminar.	April 5, 2013.
The sign changes of Fourier coefficients of Eisenstein series.	
27 th Automorphic Forms Workshop (Dublin, Ireland).	March 12, 2013.
AMS Sectional Meeting (Oxford, MS),	March 2, 2013.
Special Session on Modern Methods in Analytic Number Theory.	
How often is $\#E(\mathbb{F}_p)$ squarefree?	
SouthEastern Regional Meeting On Numbers.	April 13, 2013.
AMS/MAA Joint Meetings,	January 12, 2013.
AWM Workshop on Number Theory.	
On the degrees of divisors of $x^n - 1$.	
Max Planck Institute Number Theory Seminar (Bonn, Germany).	June 26, 2013.
Emory University Algebra and Number Theory Seminar.	February 6, 2013.
University of Michigan Group, Lie and Number Theory Seminar.	October 29, 2012.
University of South Carolina Number Theory Seminar.	October 23, 2012.
Québec-Maine Number Theory Conference.	September 29, 2012.
AMS Sectional Meeting (Rochester, NY),	September 23, 2012.
Special Session on Analytic Number Theory	
Sums of distinct divisors.	
West Coast Number Theory Conference.	December 17, 2012.
Palmetto Number Theory Series XIX.	December 1, 2012.
Canadian Number Theory Association Conference XII.	June 17, 2012.
Products of distinct cyclotomic polynomials.	
University of Georgia AGANT Oberseminar.	September 5, 2012.
University of Washington Number Theory Seminar.	May 3, 2012.
PIMS/SFU/UBC Number Theory Seminar.	April 26, 2012.
CRM Analytic Number Theory Seminar.	April 5, 2012.
Brigham Young University Number Theory Seminar.	February 28, 2012.
West Coast Number Theory Conference.	December 16, 2011.
Brown University Number Theory Seminar.	December 2, 2011.
On the divisors of $x^n - 1$.	
Erdős Centennial Conference (Budapest, Hungary). (poster)	July 2, 2013.

AMS/MAA Joint Meetings,
Special Session on New Perspectives in Multiplicative Number Theory

January 5, 2012.

Polynomials with divisors of every degree.

Integers Conference.
AWM Celebration of Women In Math. (poster)

October 27, 2011.
September 18, 2011.

On the divisors of $x^n - 1$ in $\mathbb{F}_p[x]$.

Maine-Québec Number Theory Conference.

October 2, 2011.

Variations on the practical numbers.

Upstate Number Theory Conference.

April 30, 2011.

Artin's primitive root conjecture.

MIT Seminar on Topics in Arithmetic, Geometry, Etc.

December 3, 2010.

φ -practical numbers.

Québec-Maine Number Theory Conference.
Canadian Number Theory Association Conference XI.

October 3, 2010.
July 13, 2010.

Heights of divisors of $x^n - 1$.

Integers Conference.
Maine-Québec Number Theory Conference.

October 17, 2009.
October 4, 2009.

GENERAL AUDIENCE TALKS:

The work of James Maynard

October 11, 2022. Fields Medal Lecture Series, Utrecht University.

GRADUATE-LEVEL TALKS:

(Mind the) gaps between primes

February 17, 2022. Masterclass, Utrecht University.

The ping-pong lemma

November 22, 2019. Reading group on Geometric Group Theory, Max Planck Institute for Mathematics.

What are modular forms?

March 6, 2019. AFW Graduate Student Bootcamp, Duquesne University.

(Mind the) gaps between primes

January 23, 2018. Graduate Student Seminar, University of Georgia.

UNDERGRADUATE-LEVEL TALKS:

An efficient algorithm for summing values of arithmetic functions

November 2022, Eskwadraat Pub Lecture, Utrecht University.

My (somewhat windy) mathematical journey

May 2022, Women in Science Endeavor, Utrecht University.
August 2017, WADE REU, Wake Forest University.

Reflections on the 2018 ICM

October 2018, Oberlin College. Joint with Benjamin Linowitz.

(Mind the) gaps between primes

January 2020, Swarthmore College.
August 2017, WADE REU, Wake Forest University.

Twin primes and their kin

March 2018, Colloquium, Lake Forest College.
March 2018, Colloquium, Elon University.
April 2017, Pi Mu Epsilon Induction Ceremony at Chico State University.
June 2016, Complexity Across Disciplines REU, Boise State University.
February 2016, AWM Lecture, University of Akron.
October 2015, Colloquium, Butler University.
April 2014, Colloquium, Kenyon College.
March 2014, Colloquium, Oberlin College.
March 2014, Undergraduate Colloquium, University of Georgia.

Are there infinitely many pairs of twin primes?

November 2014, Math Club Lecture, Clemson University.

On the divisors of $x^n - 1$

June 2013, Clemson University REU.

Curious patterns in the divisors of $x^n - 1$

January 2012, Colloquium, Oberlin College.

January 2012, Colloquium, Ursinus College.

January 2012, Colloquium, Whittier College.

November 2011, Colloquium, Goucher College.

Coefficients of Cyclotomic Polynomials

November 2009, Dartmouth Math Society.

Heights of Divisors of $x^n - 1$

September 2009, Women In Math In New England.

TALKS FOR HIGH SCHOOL STUDENTS:

Patterns in the primes

October 2022, IMAGINARY Program, Utrecht University.

Mind the gaps between primes

June 2022, Euler Circle.

Degrees of divisors of $x^n - 1$

September 2016, Max Planck Institute for Mathematics Summer Intern Program.

Twin primes and their kin

July 2014, Ross Mathematics Program.

The Mathematics of SET

June 2013, UGA Math Camp.

Number Theory and Security in the Digital Age

July 2010, Ross Mathematics Program.

Bertrand's Postulate

July 2009, Ross Mathematics Program.

TALKS ON MATH PEDAGOGY:

"Flipping your classroom in an upside down world"

June 2022, Algebra Seminar, University of Seville.

"I did it my way": making undergraduate research work for you

January 2020, Joint Mathematics Meetings, AMS-MAA Special Session on Getting Started in Undergraduate Research: Topics, Tools, and Open Problems.

#quadraticreciprocity: from 140-character tweets to polished student-authored textbooks

January 2018, Joint Mathematics Meetings, MAA Session on Innovative Teaching Practices in Number Theory.

IBL number theory (for large values of n)

January 2015, Joint Mathematics Meetings, MAA/NSF Funded Poster Session (poster).

June 2014, Legacy of R. L. Moore Conference.

Using WeBWork

November 2013, Math Faculty Seminar, Oberlin College.

Flipping the classroom (without turning your life upside down)

October 2013, Ohio Project NExT, MAA Ohio Sectional Meeting.

COURSES TAUGHT:

Associate Professor, Utrecht University

WISL 329: Mastermath course in Analytic Number Theory, Fall 2022.

WISM559: Graduate Seminar on Number Theory and Arithmetic Manifolds, Spring 2022.

UCSCIMAT11: Calculus and Linear Algebra, Spring 2021, Spring 2022.

WISB321: Elementaire Getaltheorie (Elementary Number Theory), Fall 2020, Fall 2021, Fall 2022.

Assistant Professor, Oberlin College

FYSP 008: Form and Formula: the Interplay Between Mathematics and the Arts, Fall 2018.

MATH 133: Calculus I, Fall 2013, Spring 2015, Fall 2017.

MATH 134: Calculus II, Fall 2014 (two sections), Fall 2015, Spring 2018 (two sections).

MATH 220: Discrete Mathematics, Fall 2015, Spring 2016, Spring 2019 (two sections).

MATH 232: Linear Algebra, Fall 2013, Spring 2014, Fall 2014.

MATH 317: Number Theory, Spring 2014, Spring 2016, Spring 2018, Fall 2018.

MATH 327: Group Theory, Spring 2015.

MATH 329: Rings and Fields, Fall 2017.

Instructor, The University of Georgia

MATH 2250: Calculus for Science and Engineering I, Fall 2012, Spring 2013.

Instructor, Dartmouth College

MATH 1: Calculus with Algebra, Fall 2009.

MATH 8: Calculus of One and Several Variables, Spring 2012.

MATH 20: Discrete Probability, Fall 2010.

UNSG 100: Graduate Ethics, Fall 2010.

RESEARCH STUDENTS SUPERVISED:

Samira le Grand, PhD Student, Utrecht University (current)

Sebastián Carillo Santana, PhD Student, Utrecht University (current)

David Hokken, PhD Student (co-supervisor: Gunther Cornelissen), Utrecht University (current)

Joël Ganesh, Master's Thesis Student, Utrecht University (current)

Lucas Hoogendijk, Master's Thesis Student, Utrecht University (current)

Bjorn Kiezebrink, Bachelor's Thesis student, Utrecht University (current)

Shuntaro Yamagishi, Postdoctoral Researcher, Utrecht University (2020 - 2022)

Niels van Ee, Master's Thesis Student, Utrecht University '22

Project Title: "Parallels between primes and φ -practical numbers"

Nina Blockland, Bachelor's Thesis Student, Utrecht University '22

Project Title: "Perfect squares as a result of concatenating consecutive integers"

Erin van der Kamp, Master's Thesis Student, Utrecht University '21

Project Title: "Eisenstein series newforms: an investigation of the signs of their Fourier coefficients"

Joppe Stokvis, Bachelor's Thesis Student, Utrecht University '21

Project Title: "Random matrix theory: From Riemann zeros to quantum chaos"

Victor de Vries, Bachelor's Thesis Student, Utrecht University '21

Project Title: "Flat cyclotomic polynomials"

Lennert den Besten, Master's Thesis Student, Utrecht University '21

Project Title: "The integer sides of triangles with a prime side opposite a $\pi/3$ angle"

Ivan Aidun, Honors Bachelor's Thesis Student, Oberlin College '19

Project Title: "A statistical investigation of a divisor-sum function"

Nicholas Schwab, Max Planck Institute Summer Intern, University of Bonn '19

Project Title: "A generalization of the practical numbers"

Leo Gitin, Max Planck Institute Summer Intern, University of Bonn '19

Project Title: "Prime numbers and their 'practical' cousins"

Hannah Pieper, Winter Term Research Student, Oberlin College '18

Project Title: "Nim sums and combinatorial games"

Jad Salem, Winter Term Research Student, Oberlin College '17

Project Title: "Topics in module theory"

Jules Metcalf-Burton, Winter Term Research Student, Oberlin College '15

Project Title: "Problems in analytic number theory"

THESIS COMMITTEES:

Komal Agrawal, External Examiner, PhD Thesis, University of Georgia 2022

Project Title: “On some problems concerning integer recurring sequences”

David Hokken, Second Reader, Master’s Thesis, Utrecht University 2021

Project Title: “Littlewood polynomials with square discriminant”

Robert Slob, Second Reader, Master’s Thesis, Utrecht University 2020

Project Title: “Primitive divisors of elliptic curves over function fields and the Lang-Trotter conjecture over function fields”

Jack Ladd, Second Reader, Honors Bachelor’s Thesis, Oberlin College 2019

Project Title: “Classifying primes of the form $x^2 + ny^2$ ”

PEDAGOGY WORKSHOPS:

AMS webinar on Advocating for Student of Color: There’s More You Can Do, Fall 2020.

Participated in a 6-hour webinar aimed at helping faculty identify actionable ways that they can advocate for students of color.

Mastery Grading Online Conference, June 2020

Participated in a two-day workshop on using Mastery Grading in college-level mathematics courses.

Approaches to Student Mentoring, October 2018.

Oberlin College

Participated in a two-hour workshop on best practices for serving as an effective research mentor to undergraduate students.

Career Development in the Academic Department, October 2018.

Oberlin College

Participated in a one-hour workshop on steps that academic departments can take to help their students prepare for life outside of academia.

Music⁺ Workshop, January 2018.

Oberlin College

Participated in a one day workshop on incorporating music in liberal arts college courses.

“Beautiful Problems”: Designing (and Scaffolding) Writing Assignments to Promote Disciplinary Ways of Thinking and Arguing, January 2016.

Oberlin College

Participated in a two day workshop led by John Bean on designing writing assignments to promote disciplinary ways of thinking.

MAA PREP Workshop on Inquiry-Based Learning, June 2014.

Kenyon College

Partially funded by the NSF to attend a week-long workshop in which participants design a course for the 2014-2015 academic year that will incorporate inquiry-based learning methods.

Sharing Responsibility for Classroom Environments and Learning, February 2014.

Oberlin Center for Teaching Innovation and Excellence

Participated in a three-hour workshop led by Allison Cook-Sather on creating faculty-student partnerships to strengthen teaching and learning in higher education.

IBL Workshop, October 2013.

MAA Ohio Section Meeting, Cleveland State University

Participated in a two-hour introductory workshop led by Carol Schumacher on using inquiry-based learning methods.

Project NExT, August 2013 - August 2014

Hartford, CT; Baltimore, MD; Portland, OR

Participated in Project NExT, a professional development for new or recent Ph.D.s in the mathematical sciences. Project NExT addresses all aspects of an academic career: improving the teaching and learning of mathematics, engaging in research and scholarship, and participating in professional activities.

Legacy of R. L. Moore – IBL Conference, June 2013 & June 2014.

University of Texas at Austin

Funded by the Educational Advancement Foundation to attend a three-day workshop on developing and implementing inquiry-based learning techniques.

Active Learning Institute

Dartmouth Center for the Advancement of Learning, August 2011.

Selected from teaching faculty across disciplines at Dartmouth College to participate in an intensive two-day workshop on creating learner-centered educational experiences in the classroom.

Course Development Series

Dartmouth Center for the Advancement of Learning, June 2011.

Took part in a four session workshop designed to support instructors in creating new courses or revising existing courses.

Mentoring Workshop

Dartmouth Center for the Advancement of Learning, January 2010.

Participated in a four session workshop focused on developing the skills necessary to serve as a research mentor to undergraduate and graduate students. Topics included: designing a research program, interacting effectively with students, writing recommendation letters.

Teaching Seminar

Dartmouth College, Summer 2009.

Participated in an intensive summer-long training course taken by Dartmouth's post-qualifying exam graduate students. The course included reading and discussion of material on the philosophy and science of learning and teaching. Participants also designed and executed two week-long mathematics workshops for high school students and guest-lectured for two class periods in a Dartmouth course (in my case, *Math 31: Abstract Algebra*).

OUTREACH ACTIVITIES:

Project Group Co-Leader

Women In Numbers Europe 4, August 2022.

Will co-lead (with Cécile Dartyge) a group of female postdocs and graduate students on a research project that we designed at the upcoming Women In Numbers 4 workshop.

Tea Time With A Number Theorist

People Online In Number Theory, July 2020 - October 2020.

Co-organized (with Ana Cariani, Jessica Fintzen, and Bianca Viray) a weekly “tea” aimed at junior mathematicians from around the world. Each weekly tea was hosted by a different senior mathematician, who provided informal career advice and mathematical discussion. This was created in response to the covid-19 pandemic, after hearing from many junior mathematicians that their opportunities for informal mentoring had disappeared.

Mathematical Consultant

Stardrop Circus, Spring 2016 - Winter 2020.

Served as mathematical consultant to the Stardrop Circus, a Cleveland-based aerial acrobatics group. Helped circus performers develop a mathematically-correct aerial acrobatics demonstration on principles from physics aimed at middle school students.

Research Mentor

Max Planck Institute for Mathematics Summer Intern Program, September 2016.

Mentored two high school students on mathematics research projects during a month-long internship program.

Invited Faculty Panelist

Nebraska Conference for Undergraduate Women in Math, January 2015.

Provided mentorship to undergraduates interested in pursuing careers in mathematics. Spoke in a panel on “Random bits of advice” and facilitated breakout sessions on “Research in Mathematics” and “Various Teaching Opportunities.”

Invited Faculty Mentor

Southeastern Conference for Undergraduate Women in Math, November 2014.

Provided mentorship to undergraduate women from the Southeastern region of the United States interested in pursuing careers in mathematics. Participated in roundtable discussions and gave a plenary talk on my own research.

Instructor

UGA Math Camp, University of Georgia, June 2013.

Designed a hands-on course in graph theory for local high school students. Gave a plenary talk on the mathematics behind the card game SET.

Panelist

Sonia Kovalevsky Math Day, Dartmouth College, November 2011.

Provided advice to middle school girls on pursuing a career in mathematics.

Calculus Instructor

Summer Institute for the Gifted, Dartmouth College, August 2010.

Designed and taught individualized calculus courses based on the Renzulli learning model.

Lecturer

CTY Odyssey Program In Mathematics, Dartmouth College, May 2010 & May 2011.

Member of the organizing committee (2011). Designed and led exploratory sessions for middle school students on patterns in the prime numbers and cryptography.

Instructor

Exploring Mathematics, Dartmouth College, July 2009

Worked with three other instructors to develop and teach hands-on courses on topics from group theory and combinatorics.

Invited Panelist

Nebraska Conference for Undergraduate Women in Math, January 2009.

Provided mentorship to undergraduate women interested in pursuing graduate studies in mathematics. Chaired a session of undergraduate research talks in number theory.

Teaching Assistant

Cryptography & Security Camp, Dartmouth College, June 2008.

Assisted high school students with cryptography problem sets and programming.

Counselor

Ross Mathematics Program, The Ohio State University, Summer 2007.

Provided individualized instruction in elementary number theory to high school students using the Moore method.

SERVICE TO THE PROFESSION:**MAA Focus**

Associate editor (2022 - present)

Indagationes Mathematicae

Associate editor (2020 - 2025)

AMS-Simons Travel Grant Committee

Committee member (2021 - 2023)

Heidelberg Laureate Forum

Mathematics Reviewing Board (2020, 2022, 2023)

National Science Foundation

Grant proposal reviewer (2020)

Journal Referee

Acta Arithmetica

Colloquium Mathematicum

Finite Fields and Applications

Mathematics of Computation

Mathematical Proceedings of the Cambridge Philosophical Society

Mathematika

Primus

Proceedings of the American Mathematical Society

Proceedings of the National Academy of Sciences

The American Mathematical Monthly

The International Journal of Number Theory

The Journal of Number Theory

Mathematical Reviews

Reviews: MR2904139.

MAA Ohio Committee on Section Activities

Committee Member, Fall 2013 - Spring 2016.

Judge for MAA Student Paper Session 4

MAA MathFest (2013).

SERVICE TO UTRECHT UNIVERSITY:**Springer Chair Selection Committee**

Chair, June 2023 - present.

Education Advisory Committee (Mathematics Department)

Chair, September 2022 - present.

Committee Member, March 2021 - present.

Mastermath Education Committee (OC)

Committee Member, September 2022 - present.

Graduate School of Natural Sciences Education Committee (OC)

Committee Member, September 2021 - present.

Utrecht Geometry Center

Board Member, January 2021 - present.

Utrecht Mathematical Colloquium Committee

Committee Member, October 2020 - present.

Hiring Committees

Committee Member, search for UHD Open Position, Spring 2023.

Academic Skills Committee

Committee Member, March 2022 - June 2022.

SERVICE TO OBERLIN COLLEGE:

Howard Hughes Medical Institute Inclusive Excellence Grant

Co-Director, Fall 2018 - Summer 2019.

Oberlin HHMI Leadership Team

Member, Spring 2018 - Spring 2020.

Sigma Xi, Oberlin Chapter

Vice President, Fall 2015 - Spring 2016.

Mead-Swing Lectureship Committee

Member, Fall 2014 - Spring 2016, Fall 2017 - Spring 2018.

Cognitive Science Committee

Member, Fall 2014 - Spring 2015, Fall 2017 - Spring 2018.

Goldwater Scholarship Nominating Committee

Fall 2014, Fall 2015.

PROFESSIONAL AFFILIATIONS:

American Mathematical Society, 2007 - Present.

Association for Women In Mathematics, 2006 - Present.

European Women in Mathematics, 2020 - Present.

Mathematical Association of America, 2012 - 2014, 2022 - Present.

Dutch Royal Mathematical Society, 2022 - Present.

REFERENCES: Available upon request.