Mahya Mehrabdollahei

Postdoc
Göttingen University

👤 August 14, 1993 (Iranian-French)

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Languages ———

🇮🇷 Persian	● ● ● ● ● ●
🇫🇷 French	● ● ● ● ● ○
🇬🇧 English	● ● ● ● ● ○
🇩🇪 German	● ● ● ○ ○ ○
🇦🇪 Arabic	● ● ○ ○ ○ ○

Programming Skills

- Maple
- Sage
- C++

Research Interest –

- Number theory
- Diophantine Geometry
- Algebraic Geometry
- Commutative Algebra
- Computational Algebra

Academic positions

2022-2025	Postdoc at Georg-August-Universität Göttingen.

Educations

2018 – 2022	**PhD in Mathematics.** **Supervisors: Fabrice ROUILLIER, Antonin GUILLOUX** Sorbonne University/IMJ-PRG/INRIA/FSMP.	France
2017 – 2018	**Master (M2)** Msc in mathematics, Sorbonne University.	France
2015 – 2017	**Master (M1 and M2)** MSc in mathematics, Sharif University of Technology, GPA 19.42.	Iran
2011 – 2015	**Bachelor** BS in mathematics, Shahid Beheshti University, GPA 18.39.	Iran

Teaching Experiences

University Teaching Experience

2025	**Assistant for a Course on Analysis and Geometry** University of Göttingen.	Germany
2024–2025	**Assistant for a Course on Elliptic Curves** University of Göttingen.	Germany
2024–2025	**Teaching assistant of Algebra** University of Göttingen	Germany
2023–2024	**Assistant and Teaching assistant of Algebra-Geometry** University of Göttingen	Germany
2023 – 2024	**Assistant and Teaching assistant of Analytic/Algebraic Number theory (3)** University of Göttingen	Germany
2022 – 2023	**Lecturer for a course in LaTeX** University of Göttingen	Germany
2021 – 2022	**1-year position as an assistant professor in Mathematics at Sorbonne University** :	France

   • Teaching assistant in Mathematics (Calculus) (II).

   • Teaching assistant in Series and Function series.

2020 – 2021	**Teaching assistant in Mathematics (Calculus) (I).** Sorbonne University.	France
2019 – 2020	**Teaching assistant in Mathematics (Calculus) (II).** Sorbonne University.	France
2016 – 2017	**Teaching assistant in Linear Algebra.** Sharif University of Technology.	Iran
2014 – 2015	**Teaching assistant in Complex Analysis.** Shahid Beheshti University	Iran
2012 – 2013	**Teaching assistant in Ordinary Differential Equations.** Shahid Beheshti University	Iran

School Teaching Experience

	Math professor at High school Instructor of Advanced Mathematics at Rah-e-Roshd High school.	Iran

Publications

2021	MEHRABDOLLAHEI Mahya, *Mahler measure of P_d Polynomial*, Journal de Théorie des Nombres de Bordeaux,Volume 35 (2023) no. 3, pp. 795-817.
2022	BRUNAULT Francois, GUILLOUX Antonin, MEHRABDOLLAHEI Mahya, PENGO Riccardo, *Limits of Mahler measures in multiple variables*, Annales de l'institut Fourier,Online first, 44 p.

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Memberships ————

Georg-August-Universität Göttingen

Sorbonne University

Sharif University of Technology

Shahid Beheshti University

IMJ-PRG

Inria

Ouragan

Animath

Women and Mathematics

Pre-publications

2024	BERTIN Marie-José, MEHRABDOLLAHEI Mahya P_d polynomials and Variants of Chinburg's Conjectures (submitted), Preprint in arXiv: https://doi.org/10.48550/arXiv.2407.20634.

Scholarships

2017	PGSM scholarship for master II.	France
2018-2021	FSMP Cofund scholarship from the European Union for PhD.	France

Honors and Awards

2011	Ranked in the top 1% among participants in the nationwide undergraduate university entrance exam.	Iran
2015	Elected as a talented student at Shahid Beheshti University.	Iran
2015	Elected for a master's program at Sharif University without an entrance exam.	Iran
2015	The best student in Shahid Beheshti's scientific society of math.	Iran
2017	Elected as a talented student at Sharif University of Technology.	Iran
2017	A laureate of the **PGSM** scholarship of the "Foundation Sciences Mathématiques de Paris" for master 2.	France
2018	A laureate of the **FSMP** Cofund scholarship from the European Union for PhD.	France
2021	Accepted in the competitive examination of ATER at Sorbonne University.(Ranked Second)	France
2021	A laureate of the **Kovalevskaya** Grants for participating in the International Congress of Mathematicians 2022 (Saint Petersburg) which was canceled as a consequence of the war.	
2023	Qualified for the position of "maître de conférence" in France, N∘ 23225361285.	
2024	Certificat en "Supervised Machin Learning", cours en ligne de DeepLeaerning.AI et de l'Université de Stanford.	

Scientific and social Activities

Iran	Referee of the 6th national *Kalaghha* Mathematics Competition at Shahid Beheshti University.(2013)
Iran	Translator of the book *Circles* for the 6th national Kalaghha Mathematics Competition at Shahid Beheshti.(2013)
Iran	Member of Shahid Beheshti's math science association for students.(2013-2014)
France	Member of the equip Ouragan in Inria.(2018-2022)
France	Co-organizer of the PhD students seminars in IMJ-PRG, "Séminaire des thésards".(2019-2021)
France	Member of the "BDD" at Sorbonne University.(2019-2021)
France	Volunteer member for Animath Association.(2021– present)
France	Volunteer member for Femmes et Mathématiques ("Women and mathematics") Association.(2021- present)
France	Volunteer at FSMP to guide the laureates of the FSMP scholarship.(2022-present)

Invited expository talks

France 2021	*Mahler measure of P_d polynomials and relations with L-function*, Conference RSVP 'Rendez-vous on Special Values and Periods', ENS Lyon.
Germany 2021	*Mahler measure of P_d polynomials and relations with L-function*, weekly seminar of Topology, Göttingen University.
Denmark 2022	*Limits of Mahler measures in multiple variables*, Nordic Number Theory Network Days XVI, Copenhagen University.
Germany 2022	*The Mahler measure of a family of exact polynomials*, weekly seminar of Diophantine Geometry, Göttingen University.
Spain 2023	*Mahler measures and L-functions (some progress on Chinburg's Conjecture)*, Arithmetic of L-functions Instituto de Ciencias Matemáticas, Madrid .
Netherlands 2023	*The Mahler measure of certain exact polynomial families*, An international conference on Mahler's measure, Radboud University, Nijmegen.
USA 2024	*Some progress regarding Chinburg's conjecture using a family of exact polynomials*, International Conference on L-functions and Automorphic Forms, Vanderbilt University, Nashville, TN.
USA 2024	*Some progress regarding Chinburg's conjecture using a family of exact polynomials*, ANTS XVI, Sixteenth Algorithmic Number Theory Symposium, MIT, Cambridge, Massachusetts.
Germany 2024	*Some progress regarding Chinburg's conjecture*, Gottingen-Hanover Number theory Symposium, Gottingen.
England 2025	*Some progress regarding Chinburg's conjecture*, WINGS 2025: Women In Number theory and Geometry, Haydock.
Germany 2025	*New solutions to Chinburg's conjectures*, Number theory seminar, Max Planck Institute for Mathematics in Bonn.
Luxembourg 2025	*Several new solutions to Chinburg's conjectures*, 33èmes Journées Arithmétiques.

Attended conferences, schools, seminars

2018	Masterclass; *Mahler measures and special values of L-functions.*	Copenhagen, Denmark
2019	Research school; Spring School in Mathematical Computer Science.	CIRM, France
2020	Yearly Maple's conference 'Maplesoft'.	On line
2022	Conference in Diophantine Geometry and L-functions.	Bordeaux, France
2023	Workshop on Diophantine geometry, groups, and number number theory at Academy Waldschlösschen.	Göttingen, Germany
2023	32èmes Journées Arithmétiques.	Nancy, France
2023	Conference on the Recent Advances in Number Theory "Numbers in the Universe".	Warsaw, Poland
2024	Modular Forms, L-functions, and Eigenvarieties, ENS.	Paris, France
2024	Conference on Arithmetic Geometry and Applications, ICTP.	Trieste,Italy
2024	The Mordell conjecture 100 years later, MIT, Cambridge.	Massachusetts, USA
2024	Analytic Number Theory and Arithmetic Statistics.	Montréal(Québec), Canada