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-   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

2025-2026	**Assistant for a Course on Analysis and Geometry** University of Göttingen.	Germany
2024–2025	**Teaching Assistant for a seminar on Advanced Topics in Diophantine Geometry and a course on Elliptic Curves** University of Göttingen.	Germany
2024–2025	**Teaching assistant of Algebra** University of Göttingen	Germany
2023–2024	**Teaching Assistant in Algebra and Geometry for trainee university instructors (course taught in German).** 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 the Series and Function series.
- Teaching assistant in Mathematics (Calculus).

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

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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

Publications

2023	Mahya Mehrabdollahei, *Mahler measure of P_d Polynomial*, Journal de Théorie des Nombres de Bordeaux,Volume 35 (2023) no. 3, pp. 795-817.
2024	Francois Brunault, Antonin Guilloux, Mahya Mehrabdollahei, Riccardo Pengo, *Limits of Mahler measures in multiple variables*, Annales de l'institut Fourier, Online first, 44 p.
2025	Marie-José Bertin, Mahya Mehrabdollahei, *An exact family of bivariate polynomials and variants of Chinburg's Conjectures* Annales Mathématiques de Québec, accepted for publication, `https://doi.org/10.48550/arXiv.2407.20634.`

Scholarships

| 2017 | PGSM scholarship from FSMP[1]for master II. | France |
| 2018-2021 | COFUND Doctoral Fellowship from FSMP & European Union, under the Marie Sklodowska-Curie Grant. | 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	Selected as a talented student for the Master's program at Sharif University, admitted without an entrance exam.	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. (Validity period: from 14/02/2023 to 31/12/2027.)	
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).

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[1]FSMP=Fondation Sciences Mathématiques de Paris

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.

England 2025 · *New solutions to Chinburg's conjectures*, PiFORUM25 Confrence, Queen Mary University of London.

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 · Mordell conjecture 100 years later, MIT, Cambridge. — Massachusetts, USA

2024 · Analytic Number Theory and Arithmetic Statistics. — Montréal(Québec), Canada