



# Mahya Mehrabdollahei

Postdoc  
Göttingen University

- August 14, 1993
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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.** France  
**Supervisors: Fabrice ROUILLIER, Antonin GUILLOUX**  
Sorbonne University/IMJ-PRG/INRIA/FSMP.
- 2017 – 2018 **Master (M2)** France  
MSc in mathematics, Sorbonne University.
- 2015 – 2017 **Master (M1 and M2)** Iran  
MSc in mathematics, Sharif University of Technology, GPA 19.42.
- 2011 – 2015 **Bachelor** Iran  
BS in mathematics, Shahid Beheshti University, GPA 18.39.

## Teaching Experiences

### University Teaching Experience

- 2024 **Assistant and Teaching assistant of Algebra-Geometry** Germany  
University of Göttingen
- 2023 – 2024 **Assistant and Teaching assistant of Analytic/Algebraic Number theory** Germany  
University of Göttingen
- 2022 – 2023 **Lecturer for a course in  $\text{\LaTeX}$**  Germany  
University of Göttingen
- 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).** France  
Sorbonne University.
- 2019 – 2020 **Teaching assistant in Mathematics (Calculus) (II).** France  
Sorbonne University.
- 2016 – 2017 **Teaching assistant in Linear Algebra.** Iran  
Sharif University of Technology.
- 2014 – 2015 **Teaching assistant in Complex Analysis.** Iran  
Shahid Beheshti University
- 2012 – 2013 **Teaching assistant in Ordinary Differential Equations.** Iran  
Shahid Beheshti University

### School Teaching Experience

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

## Publications and Pre-publications

- 2021 MEHRABDOLLAHEI Mahya, *Mahler measure of  $P_d$  Polynomial*, arXiv:2101.07675v3, Journal de Théorie des Nombres de Bordeaux (To appear).
- 2021 BRUNAUT Francois, GUILLOUX Antonin, MEHRABDOLLAHEI Mahya, PENGU Riccardo, *Limits of Mahler measures in multiple variables*, arXiv:2203.12259 , Annales de l'institut Fourier (To appear).

## Scholarships

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

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## Memberships



Georg-August-Universität  
Göttingen



Sorbonne University



Sharif University of Technol-  
ogy



Shahid Beheshti University



IMJ-PRG



Inria



Ouragan



Animath



Women and Mathematics

## 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 <b>PGSM</b> scholarship of the "Foundation Sciences Mathématiques de Paris" for master 2.	France
2018	A laureate of the <b>FSMP</b> 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 <b>Kovalevskaya</b> 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 <i>Kalaghha</i> Mathematics Competition at Shahid Beheshti University.(2013)
Iran	Translator of the book <i>Circles</i> 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 2020	"Mahler measure of $P_d$ polynomials", OURAGAN seminars.
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.

## Attended conferences, schools, seminars

2018	Masterclass; <i>Mahler measures and special values of L-functions</i> .	University of Copenhagen (DK)
2019	Research school; Spring School in Mathematical Computer Science.	CIRM (FR)
2020	Yearly Maple's conference 'Maplesoft'.	On line (Canada)
2020-2021	Weekly seminars of OURAGAN team of INRIA.	On line (FR)
2022	Conference in Diophantine Geometry and L-functions.	Bordeaux (FR)
2023	Workshop on diophantine geometry, groups and number number theory at Academy Waldschlösschen.	Göttingen (DE)
2023	32nd arithmetic days " Journées Arithmétiques"	Nancy(FR)
2023	Conference on the Recent advances in number theory "Numbers in the Universe"	Warsaw/Kyiv