Michael Alexander Daas

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Born: August 30, 1997—Zaandijk, The Netherlands
Nationality: Dutch

Current position

Postdoctoral researcher in Number Theory, Max Planck Institute for Mathematics, Bonn

Work Experience

2024-2026	Max Planck Institute for Mathematics, Bonn - *Postdoctoral researcher in Number Theory under mentorship of Don Zagier*
2020-2024	Leiden University - *PhD candidate in Number Theory under supervision of Jan Vonk*
2018-2020	University of Amsterdam - *Teaching assistant for various bachelor level courses*

Education

2018-2020	MSc in Mathematics, University of Amsterdam - *Cum Laude, 187 EC, GPA: 9.3/10*
2015-2018	BSc in Mathematics, and Physics and Astronomy, University of Amsterdam - *Double Honours Program, Double Cum Laude, 320 EC, GPA: 9.3/10*
2015	CAMBRIDGE ENGLISH Level 3 Certificate of Profiency, Amsterdam
2009-2015	High School Diploma St. Michaël College, Zaandam - *GPA: 9.0/10*

Publications

2023	Daas, Michael A. "CM-values of p-adic Θ-functions", arXiv:2309.17251.

Supervision

2024	Lars Pos. "De Jacobson-commutativiteitsstelling", bachelor thesis.

Invited talks

2024   Recent Progress on Hilbert's 12th Problem, ICMS Edinburgh.
2024   Junior Number Theory Seminar, Warwick.
2024   Leiden-Luxembourg PhD Away Days, Luxembourg.
2024   Intercity Number Theory Seminar, Leiden.
2024   Number Theory Seminar, University of Bristol.
2024   Number Theory Seminar, Ohio State University (online).
2023   Number Theory Seminar, Copenhagen University (online).
2023   Diamant Symposium, Eindhoven.
2023   Algebra, Geometry and Number Theory Seminar, Leiden.
2023   Leiden-Luxembourg PhD Away Days, Leiden.
2023   Mathematics Research Group Seminar, Groningen.
2023   Density problems in Arithmetic, CIRM Luminy.
2022   Leiden-Luxembourg PhD Away Days, Luxembourg.
2022   Seminar on abelian varieties, Leiden.
2022   Seminar on algorithmic number theory, Leiden.
2021   Diamant Symposium, Utrecht.
2021   Hendrik Lenstra number theory seminar, Leiden.
2021   Seminar on étale cohomology, Leiden.
2021   Seminar on étale cohomology, Oxford (online).
2021   Junior Algebra and Representation Theory Seminar, Oxford (online).
2021   Seminar on the local Langlands program, Amsterdam.
2020   Seminar on deformation theory, Amsterdam.
2020   Seminar on derived categories, Nijmegen.
2019   Seminar on étale cohomology, Amsterdam.

Attended Conferences

2024   Conference on "Arithmetic Geometry" in Honour of Gerd Faltings' 70th Birthday, MPIM Bonn.
2024   Galois representations, automorphic forms and their L-functions, GALF Luxembourg.
2024   Recent Progress on Hilbert's 12th Problem, ICMS Edinburgh.
2024   Eigenvarieties and Bloch–Kato Selmer Groups, Copenhagen.
2024   Leiden-Luxembourg PhD Away Days, Luxembourg.
2024   Diamant Symposium, Utrecht.
2023   Eisenstein Days at UCL 2023, University College London.
2023   Modular Curves and their Arithmetic, Warwick.
2023   Diamant Symposium, Eindhoven.
2023   Leiden-Luxembourg PhD Away Days, Leiden.
2023   An Expedition into Arithmetic Geometry, Leiden.
2023   Arithmetic Statistics, CIRM Luminy.
2023   Spring school in Arithmetic Statistics, CIRM Luminy.
2023   Density problems in Arithmetic, CIRM Luminy.
2023   Symposium on Arithmetic Geometry and its Applications (SAGA), CIRM Luminy.
2023   Introduction to SAGA, CIRM Luminy.
2022   Mordell 2022, Cambridge.
2022   Elliptic Curves Graduate School, Wales.

2022	Leiden-Luxembourg PhD Away Days, Luxembourg.
2022	Diamant Symposium, Utrecht.
2021	Diamant Symposium, Utrecht.
2021	RSVP: Rendez-vous on special values and periods (online).
2020	Diamant Symposium (online).
2019-2024	Intercity Number Theory Seminar, Leiden and Utrecht.

Grants, honours & awards

2021	Award for best contributed talk at the Diamant symposium - *a biannual Dutch mathematics conference featuring speakers from many different research fields;*
2016-2019	Gold medal IMC 2019 - *An annual mathematics competition for university students;* Silver medal IMC 2018; Gold medal IMC 2017; Bronze medal IMC 2016
2018	Winner LIMO - *the LIMO is an annual mathematics competition where students from all over the Netherlands compete in groups of four;*
2016	Jong Talent Aanmoedigingsprijs 2016, The Netherlands - *a prize for the best first year mathematics student from the University of Amsterdam;*
2015	Certificate of participation IMO 2015, Thailand - *the IMO is an annual mathematics competition for high school students from all around the world;*
2015	Bronze Medal BxMO 2015, Luxembourg - *the BxMO is an annual mathematics competition for high school students from the BeNeLux;*
2012	Bronze medal international IJSO, Iran - *IJSO is an olympiad for physics, biology and chemistry;* First prize IJSO Netherlands.

Teaching

Ever since I was fifteen years old, I have worked at a personal maths tutor for high school students, both at my local high school and as a freelance tutor. Currently, I am active within the Dutch mathematics olympiad as a personal tutor for talented high school students. I have organised a training for the International Mathematics Competition (IMC) in Leiden to prepare students for this competition. Academically:

2023	TA for Diophantine Approximation - *master level course taught nation-wide (MasterMath);*
2023	TA for Topics in Number Theory - *master level course in Leiden;*
2022	TA for Modular Forms and Analytic Number Theory - *MasterMath;*
2021	TA for Algebraic Number Theory - *MasterMath;*
2021	TA for Topics in Number Theory - *master level course in Leiden;*
2020	TA for Analytic Number Theory - *MasterMath;*
2020	TA for Galois Theory and IMC Training - *bachelor level courses at the University of Amsterdam;*
2019	TA for Representation Theory and IMC Training - *bachelor level courses at the UvA;*
2018	TA for Linear Algebra 2 - *bachelor level course at the UvA.*

Languages

Dutch (native language) — English (fully proficient) — German (intermediate)

Last updated: August 2, 2024