

# Boaz Moerman

PhD graduate

-  Born in Nieuwegein, the Netherlands on April 21st 1998
-  <https://boazmoerman.github.io/>
-  [boazmoerman@gmail.com](mailto:boazmoerman@gmail.com)

## References

- Marta Pieropan,  
Assistant Professor,  
Utrecht University,  
E-mail: [m.pieropan@uu.nl](mailto:m.pieropan@uu.nl)
- Per Salberger,  
Professor, Chalmers University  
of Technology,  
E-mail:  
[salberg@chalmers.se](mailto:salberg@chalmers.se)
- Sho Tanimoto,  
Professor, Nagoya University,  
E-mail: [sho.tanimoto@math.nagoya-u.ac.jp](mailto:sho.tanimoto@math.nagoya-u.ac.jp)
- Daniel Loughran,  
Professor, University of Bath,  
E-mail: [dt132@bath.ac.uk](mailto:dt132@bath.ac.uk)

## Employment

- |             |   |                    |
|-------------|---|--------------------|
| 2021 – 2025 | <b>PhD</b><br>Thesis: <i>Generalized Campana points and toric varieties</i> in arithmetic geometry, with emphasis on generalizations of Campana points and toric varieties. Defended on 16 September 2025. Advisor: Dr. M. Pieropan | Utrecht University |
| 2017 – 2021 | <b>Tutorial assistant</b><br>Taught and graded students in 10 courses   | Radboud University |

## Education

- |             |  |                    |
|-------------|--|--------------------|
| 2019 – 2021 | <b>Master in Mathematics, cum laude</b><br>Thesis: <i>Genus 2 fibrations</i> , Advisor: Prof. Dr. B. Moonen  | Radboud University |
| 2017 – 2019 | <b>Honours program</b><br>Two year extracurricular program of 48 ECTS<br>First year project: wrote research proposal for planetesimal formation. Joint with J. de Kleuver, J. Nieuwveld, C. ten Dam<br>Second year project: greatly extended bachelor thesis (see below) | Radboud University |
| 2016 – 2019 | <b>Bachelor in Mathematics, cum laude</b><br>Thesis: <i>Eisenstein series and periods</i> , Advisor: Prof. Dr. W. Zudilin. Expanded on during my masters program and published as <i>L-values for conductor 32</i> .   | Radboud University |

## Publications

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|------|--|
| 2025 | <b>M-points of bounded height on toric varieties</b><br><i>Preprint</i><br>arXiv:2512.16746                            |
| 2025 | <b>M-points of bounded height</b><br><i>Preprint</i><br>arXiv:2512.07654   |
| 2024 | <b>Generalized Campana points and adelic approximation on toric varieties</b><br><i>Preprint</i><br>arXiv:2407.03048   |
| 2022 | <b>L-values for conductor 32</b><br><i>Journal of Number theory</i><br>DOI: 10.1016/j.jnt.2021.09.013, ISSN: 0022-314X |

## Research visits

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|---------|--|-------------------------------|
| 09/2024 | <b>Visit Dr. V. Mitankin</b><br>Visit to discuss approximation properties for M-points and the associated Brauer-Manin obstruction, 9 September – 13 September | Bulgarian Academy of Sciences |
| 02/2024 | <b>Workshop Campana points on toric varieties II</b><br>Small scale meeting to discuss counting Campana points on toric varieties, 19 February – 23 February   | University of Bristol         |
| 04/2019 | <b>Visit Dr. M. Neururer</b><br>For discussing bachelor thesis (for honours program), 1 April – 5 April  | TU Darmstadt                  |
| 03/2019 | <b>Visit Dr. F. Brunault (and R. Pengo)</b><br>For discussing bachelor thesis (for honours program), 21 March – 27 March                                       | ENS Lyon                      |

## Research talks given

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|---------|---|--|
| 01/2026 | <b>Geometry, arithmetic &amp; cohomology of higher dimensional varieties</b><br><i>M-points of bounded height</i> | Università di Bologna                                  |
| 09/2025 | <b>MI talk</b><br><i>Counting special points of bounded height</i>  | Utrecht University                                     |
| 06/2025 | <b>Journées Arithmétiques</b><br><i>M-points of bounded height</i>  | Université du Luxembourg, Esch-sur-Alzette, Luxembourg |
| 04/2025 | <b>LENT seminar</b><br><i>M-points of bounded height</i>  | Utrecht University                                     |
| 02/2025 | <b>Bath Arithmetic Geometry Seminar</b><br><i>Generalized Campana points and adelic approximation</i>             | University of Bath, Bath, England                      |

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11/2024	<b>Oberseminar Diophantische Geometrie (online)</b> <i>M-points and adelic approximation on toric varieties</i>	Georg-August Universität Göttingen, Germany
10/2024	<b>Intercity number theory seminar</b> <i>M-points and adelic approximation on toric varieties</i>	Leiden University, Leiden, the Netherlands
09/2024	<b>ICMS seminar</b> <i>Generalized integral points and strong approximation</i>	Bulgarian Academy of Sciences, Sofia, Bulgaria
07/2024	<b>The Mordell conjecture 100 years later</b> <i>Generalized Campana points and adelic approximation</i>	MIT, Cambridge, United States
04/2024	<b>Campana points seminar</b> <i>M-approximation on toric varieties</i>	Utrecht University
04/2024	<b>Campana points seminar</b> <i>M-points</i>	Utrecht University
11/2023	<b>Junior AG day</b> <i>Generalized integral points and strong approximation</i>	Utrecht University
08/2023	<b>GQT school and colloquium</b> <i>Adelic approximation of generalized integral points</i>	Groesbeek, the Netherlands
06/2023	<b>Journées Arithmétiques</b> <i>Approximation for generalized Campana points</i>	Université de Lorraine, Nancy, France
06/2023	<b>Geometric and Arithmetic Frontiers of Orbifolds II: Arithmetic and hyperbolicity</b> <i>Approximation for generalized Campana points</i>	Université de Strasbourg
04/2023	<b>DIAMANT symposium</b> <i>Approximation for generalized Campana points on projective space</i>	Utrecht
03/2023	<b>LENT seminar</b> <i>Approximation for generalized Campana points on toric varieties</i>	Utrecht University

## Posters presented

04/2025	<b>Nederlands Mathematisch Congres</b> <i>Counting special points on toric varieties</i>	Soesterberg, the Netherlands
11/2024	<b>Instructional workshop on rational points</b> <i>M-points and adelic approximation</i>	Groningen, the Netherlands
06/2024	<b>GAeL XXXI</b> <i>M-points and adelic approximation</i>	Turin, Italy
03/2024	<b>Enumerative Geometry and Arithmetic</b> <i>M-points and adelic approximation</i>	Lorentz Center, Leiden

## Seminars organized

05/2024	<b>Gong show</b> Series of lighting talks by PhD students at the Utrecht Geometry Centre	Utrecht University
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## Learning seminar talks given

11/2024	<b>Learning seminar on log stacks</b> <i>Log schemes 1</i>	Utrecht University
06/2024	<b>Learning seminar on stacks</b> <i>Deligne-Mumford stacks and examples</i>	Online
03/2024	<b>Rational points consortium</b> <i>Arakelov theory: arithmetic curves</i>	Utrecht University
02/2024	<b>Campana points seminar</b> <i>Darmon points and root stacks</i>	Utrecht University
09/2022	<b>Algebraic Geometry seminar</b> <i>Weak approximation and the Hilbert property for Campana points</i>	Utrecht University
02/2022	<b>Algebraic Geometry seminar</b> <i>Cox coordinates for toric varieties</i>	Utrecht University
11/2021	<b>Mazur seminar</b> <i>Jacobians and criteria for the rank</i>	Utrecht University
10/2021	<b>Circle method seminar</b> <i>Introduction to the Circle method and Waring's problem</i>	Online

## Teaching experience

Teaching assistant

Summer/Fall 2024	Commutative Algebra	Utrecht University
Spring 2024	Probability Theory	Utrecht University
Summer/Fall 2023	Commutative Algebra	Utrecht University
Spring 2023	Probability Theory	Utrecht University

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Winter 2023	Analysis	Utrecht University
Summer/Fall 2022	Commutative Algebra	Utrecht University
Winter 2022	Analysis	Utrecht University
Summer 2021	Linear Algebra and Infinitesimal Calculus 1	Utrecht University
Winter/Spring 2021	Complex Analysis	Radboud University
Summer/Fall 2020	Analysis 2	Radboud University
Spring 2020	Elementary Number Theory	Radboud University
Winter 2020	Introduction to Fourier Theory	Radboud University
Summer/Fall 2019	Calculus A	Radboud University
Winter/Spring 2019	Topology	Radboud University
Summer/Fall 2018	Analysis 2	Radboud University
Spring 2018	Linear Algebra B	Radboud University
Winter 2018	Famous Problems in Mathematics	Radboud University
Fall 2017	Kepler and Newton in Historical Perspective	Radboud University

## Conferences attended

11/2025	<b>From 0 to p and back: A symposium in honour of Frans Oort's 90th birthday</b> <i>Link to site</i>	Utrecht University, the Netherlands
06/2025	<b>Journées Arithmétiques</b> <i>Link to site</i>	Université du Luxembourg, Esch-sur-Alzette, Luxembourg
04/2025	<b>Nederlands Mathematisch Congres</b> <i>Link to site</i>	Soesterberg, the Netherlands
03/2025	<b>Diophantine and Rationality Problems</b> <i>Link to site</i>	ICMS, Sofia, Bulgaria
11/2024	<b>Instructional workshop on rational points</b> <i>Link to site</i>	Groningen, the Netherlands
07/2024	<b>The Mordell conjecture 100 years later</b> <i>Link to site</i>	MIT, Cambridge, United States
06/2024	<b>GAeL XXXI</b> <i>Link to site</i>	Turin, Italy
04/2024	<b>Diamant symposium</b>	Utrecht, the Netherlands
03/2024	<b>Enumerative Geometry and Arithmetic</b> <i>Link to site</i>	Lorentz Center, Leiden, the Netherlands
11/2023	<b>Diamant symposium</b>	Eindhoven, the Netherlands
08/2023	<b>GQT school and colloquium</b> School and conference on geometry and topology.	Groesbeek, the Netherlands
08/2023	<b>ENTR23</b> <i>Link to site</i>	Bielefeld University
06/2023	<b>Journées Arithmétiques</b> <i>Link to site</i>	Université de Lorraine, Nancy, France
06/2023	<b>Geometric and Arithmetic Frontiers of Orbifolds II: Arithmetic and hyperbolicity</b> <i>Link to site</i>	Université de Strasbourg, France
05/2023	<b>An Expedition into Arithmetic Geometry</b> <i>Link to site</i>	Lorentz Center, Leiden, the Netherlands
04/2023	<b>Diamant symposium</b>	Utrecht, the Netherlands
03/2023	<b>FRACASSO</b> Workshop on rationally connected varieties. <i>Link to site</i>	Université de Bordeaux, France
02/2023	<b>SAGA</b> Conference on arithmetic geometry. <i>Link to site</i>	CIRM, Marseille, France
02/2023	<b>intro to SAGA</b> Winter school on arithmetic geometry. <i>Link to site</i>	CIRM, Marseille, France
11/2022	<b>DIAMANT symposium</b>	Leiden, the Netherlands
08/2022	<b>GQT school and colloquium</b> School and conference on geometry and topology.	Zeist, the Netherlands
07/2022	<b>Meeting on GDR singularities</b> Conference on singularities of algebraic varieties. <i>Link to site</i>	Aussois, France
06/2022	<b>Geometric and Arithmetic Frontiers of Orbifolds</b> Workshop on orbifolds and stacks. <i>Link to site</i>	UQAM, Montreal, Canada
04/2022	<b>Rational Points on Higher-Dimensional Varieties</b> Conference on Diophantine geometry. <i>Link to site</i>	ICMS, Edinburgh, Scotland

04/2022	<b>DIAMANT symposium</b>	Utrecht, the Netherlands
11/2021	<b>DIAMANT symposium</b>	Utrecht, the Netherlands

## Seminars attended

11/2022 - present	LENT seminar	Utrecht University
10/2021 - present	Algebraic / Arithmetic Geometry Seminar	Utrecht University
11/2025 - present	Reading seminar on the Geometric Manin Conjecture	Utrecht University
12/2025	Rational points consortium	Leiden University
11/2025	Rational points consortium	Utrecht University
10/2025	Rational points consortium	Groningen University
06/2025	Rational points consortium	Leiden University
04/2025	Rational points consortium	Utrecht University
01/2025	Rational points consortium	Leiden University
11/2024 - 1/2025	Log Stacks seminar	Utrecht University/Leiden University
12/2024	Flatland Arithmetic	Utrecht University
12/2024	Rational points consortium	Utrecht University
10/2024	Belgian-Dutch Algebraic Geometry Seminar	University of Antwerp, Belgium
10/2024	Intercity number theory seminar	Leiden University
06/2024	Rational points consortium	Utrecht University
06/2024	Intercity number theory seminar	Utrecht University
05/2024–	Learning seminar on stacks	Online
06/2024		
05/2024	Rational points consortium	Leiden University
05/2024	Young KWG day	Utrecht University
05/2024	Intercity number theory seminar	University of Groningen
04/2024	Belgian-Dutch AG day	Utrecht University
04/2024	Rational points consortium	University of Groningen
04/2024	Campana points seminar	Utrecht University
03/2024	Rational points consortium	Utrecht University
02/2024	Campana points seminar	Utrecht University
02/2024	Flatland Arithmetic	KU Leuven
01/2024	Rational points consortium	Leiden University
12/2023	Intercity number theory seminar	University of Amsterdam
12/2023	Rational points consortium	University of Groningen
11/2023	Intercity number theory seminar	Leiden University
11/2023	Junior AG day	Utrecht University
11/2023	Rational points consortium	Utrecht University
10/2023	Belgian-Dutch Algebraic Geometry Seminar	Leiden University
10/2023	Rational points consortium	Utrecht University
09/2023	Intercity number theory seminar	Utrecht University
09/2023–	Seminar on the conjectures of Campana, Lang and Vojta	Radboud University
12/2023	Vojta	
09/2023	Rational points consortium	Utrecht University
06/2023	Junior AG day	University of Amsterdam
03/2023	Belgian-Dutch AG day	Radboud University
03/2023	EWM meeting	Utrecht University
01/2023	Junior AG day	Radboud University
12/2022	Intercity Geometry seminar	Utrecht University
11/2022	Intercity Geometry seminar	Leiden University
10/2022	Intercity number theory seminar	Leiden University
10/2022	Intercity Geometry seminar	Radboud University
10/2022	Junior AG day	Leiden University
10/2022	Intercity Geometry seminar	University of Amsterdam
09/2022	Belgian-Dutch Algebraic Geometry Seminar	KU Leuven, Belgium
09/2022	Getaltheorie in het vlakke land	Utrecht University
09/2022	EWM meeting	Vrije Universiteit Amsterdam
09/2022	Curves over finite fields and arithmetic of K3 surfaces	University of Groningen
05/2022	Intercity number theory seminar	Utrecht University
12/2021	Junior AG day	Online
11/2021	Intercity number theory seminar	Leiden University
10/2021	Intercity number theory seminar	Leiden University