PhD student

- Born in Nieuwegein, the Netherlands on April 21st 1998
- Budapestlaan 6, Utrecht, the Netherlands
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About Me -

I am doing a PhD studying special subsets of rational points on algebraic varieties. These points, called \mathcal{M} -points generalize integral, Campana, and Darmon points. Currently I am working on adelic approximation for \mathcal{M} -points as well as an analogue for Manin's conjecture for such points, particularly on toric varieties. Alongside this, I am working on connections between stacks and such points.

Employment

2021 – 2025	PhD Utrecht University
	Currently ongoing thesis in arithmetic geometry, with emphasis on Cam-
	pana points and toric varieties. Advisor: Dr. M. Pieropan

Tutorial assistantRadboud University
Taught and graded students in 10 courses

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Education

2017 - 2021

2010 2021

2019 – 2021	Master in Mathematics, cum laude	Radboud University
	Thesis: Genus 2 fibrations, Advisor: Prof. Dr. B. Mooner	า
2017 – 2019	Honours program	Radboud University
	Two year extracurricular program of 48 ECTS	
	First year project: wrote research proposal for planete Joint with J. de Kleuver, J. Nieuwveld, C. ten Dam	esimal formation.
	· · · · · · · · · · · · · · · · · · ·	(b-l)
	Second year project: greatly extended bachelor thesis	(see below)
2016 – 2019	Bachelor in Mathematics, cum laude	Radboud University
	Thesis: Eisenstein series and periods, Advisor: Prof. D	r. W. Zudilin. Ex-
	panded on during my masters program and published	d as L -values for
	conductor 32.	

Master in Mathematics, sum laude

Publications

2025	Generalized Campana points of bounded height
	In preparation
2024	Generalized Campana points and adelic approximation on toric vari-
	eties
	Preprint
	arXiv:2407.03048
2022	L-values for conductor 32
	Journal of Number theory
	DOI: 10.1016/j.jnt.2021.09.013, ISSN: 0022-314X

Research visits

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

Research talks given

02/2025	Bath Arithmetic Geometry Seminar	, , ,
	Generalized Campana points and adeli	c approximation
11/2024	Oberseminar Diophantische	g-August Universitat Göttingen, Germany
•	Geometrie (online) M-points and adelic approximation on a	toric variaties
40/0004		
10/2024	Intercity number theory seminar L	eiden University, Leiden, the Netherlands
	M-points and adelic approximation on a	toric varieties
09/2024	ICMS seminar Bulgar	rian Academy of Sciences, Sofia, Bulgaria
	Generalized integral points and strong	approximation
07/2024	The Mordell conjecture 100 years late	
	Generalized Campana points and adeli	c approximation
04/2024	Campana points seminar	Utrecht University
,	M-approximation on toric varieties	-
04/2024	Campana points seminar	Utrecht University
- ,	M-points	
11/2022	,	Ukon alak Ulukonakan
11/2023	Junior AG day	Utrecht University

Generalized integral points and strong approximation

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08/2023	GQT school and colloquium Groesbeek, the Netherlands	
06/2023	Adelic approximation of generalized integral points Journées Arithmétiques Université de Lorraine, Nancy, France	
06/2023	Approximation for generalized Campana points Geometric and Arithmetic Frontiers of Orbifolds Université de Strasbourg	
04/2023	II: Arithmetic and hyperbolicity Approximation for generalized Campana points DIAMANT symposium Utrecht	
03/2023	Approximation for generalized Campana points on projective space	
03/2023	LENT seminar Utrecht University Approximation for generalized Campana points on toric varieties	

Posters presented

11/2024	Instructional workshop on rational points	Groningen, the Netherlands
	M-points and adelic approximation	
06/2024	GAeL XXXI	Turin, Italy
	M-points and adelic approximation	
03/2024	Enumerative Geometry and Arithmetic	Lorentz Center, Leiden
	M-points and adelic approximation	

Seminars organized

05/2024	Gong show	Utrecht University
	Series of lighting talks by PhD students at the Utrech	it Geometry Centre

Learning seminar talks given

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

Teaching experience

Teaching assistant

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Summer/Fall	Commutative Algebra	Utrecht University
2024 Spring 2024	Probability Theory	Utrecht University
Summer/Fall	Commutative Algebra	Utrecht University
2023 Spring 2023	Probability Theory	Utrecht University
Winter 2023	Analyis	Utrecht University
Summer/Fall	Commutative Algebra	Utrecht University
2022 Winter 2022	Analysis	Utrecht University
Summer 2021	Linear Algebra and Infinitesimal Calculus 1	Utrecht University
Winter/Spring	Complex Analysis	Radboud University
2021 Summer/Fall	Analysis 2	Radboud University
2020	Elementary Newskay Theory	- "
Spring 2020	Elementary Number Theory	Radboud University
Winter 2020	Introduction to Fourier Theory	Radboud University
Summer/Fall	Calculus A	Radboud University
2019 Winter/Spring	Topology	Radboud University
2019 Summer/Fall	Analysis 2	Radboud University
2018 Spring 2018	Linear Algebra B	Radboud University

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Winter 2018 Famous Problems in Mathematics Radboud University Fall 2017 Kepler and Newton in Historical Perspective Radboud University

Conferences attended

03/2025	Diophantine and Rationality Problems	ICMS, Sofia, Bulgaria
11/2024	Link to site Instructional workshop on rational points	Groningen, the Netherlands
07/2024	Link to site The Mordell conjecture 100 years later	MIT, Cambridge, United States
06/2024	Link to site GAeL XXXI	Turin, Italy
04/2024	Link to site Diamant symposium	Utrecht, the Netherlands
03/2024	Arithmetic	Center, Leiden, the Netherlands
11/2023	Link to site Diamant symposium	Eindhoven, the Netherands
08/2023	GQT school and colloquium	Groesbeek, the Netherlands
08/2023	School and conference on geometry and topol ENTR23	Ogy. Bielefeld University
06/2023	·	rsité de Lorraine, Nancy, France
06/2023	Orbifolds II: Arithmetic and hyperbolicity	niversité de Strasbourg, France
05/2023	Geometry	Center, Leiden, the Netherlands
04/2023	Link to site Diamant symposium	Utrecht, the Netherlands
03/2023		Université de Bordeaux, France
02/2023	Workshop on rationally connected varieties. <i>Li</i> . SAGA	CIRM, Marseille, France
02/2023	Conference on arithmetic geometry. Link to sit intro to SAGA	CIRM, Marseille, France
11/2022	Winter school on arithmetic geometry. <i>Link to</i> DIAMANT symposium	site Leiden, the Netherlands
08/2022	GQT school and colloquium	Zeist, the Netherlands
07/2022	School and conference on geometry and topol Meeting on GDR singularities	Aussois, France
06/2022	Conference on singularities of algebraic variet Geometric and Arithmetic Frontiers of Orbifol Workshop on orbifolds and stacks. <i>Link to site</i>	
04/2022	Rational Points on Higher-Dimensional Varieties	ICMS, Edinburgh, Scotland
04/2022	Conference on Diophantine geometry. <i>Link to s</i> DIAMANT symposium	site Utrecht, the Netherlands
11/2021	DIAMANT symposium	Utrecht, the Netherlands

Seminars attended

11/2022 -	LENT seminar	Utrecht University
present 10/2021 - present	Algebraic / Arithmetic Geometry Seminar	Utrecht University
01/2025	Rational points consortium	Leiden University
11/2024 -	Log Stacks seminar Utr	echt University/Leiden University
1/2025		
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

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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 an	d 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	rije Universiteit Amsterdam
09/2022	Curves over finite fields and arithmetic of K3	University of Groningen
	surfaces	. .
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