

Jan Vonk

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ACADEMIAE	Ghent University / University of Iceland University of Cambridge University of Oxford CRM / McGill University , Montréal University of Oxford Institute for Advanced Study , Princeton University of Leiden	BSc in Mathematics 2010 MASt in Mathematics 2011 DPhil in Pure Mathematics 2015 Postdoc 2015 – 2018 Postdoc 2018 – 2019 Postdoc 2019 – 2020 Assistant Professor (UD) 2020 – 2022 Associate Professor (UHD) 2022 – 2023 Professor (Hoogleraar) 2023 –
AWARDS	ERC Starting Grant 101076941 VIDI Grant 213.084 Gianturco Junior Research Fellowship Leathersellers' Scholarship Light Senior Scholarship Braithwaite-Batty Scholarship	<i>European Research Council, €1.5M</i> 2023 <i>NWO Netherlands, €800K</i> 2022 <i>Linacre College, Oxford</i> 2018 <i>St. Catherine's College, Oxford</i> 2013 <i>St. Catherine's College, Oxford</i> 2012 <i>Emmanuel College, Cambridge</i> 2010
SUPERVISION	PhD <ol style="list-style-type: none">1. Felix Kalker Leiden 2025 –2. Mateo Crabit Nicolau (joint w. P. Charollois) Paris / Leiden 2024 –3. Paolo Bordignon Leiden 2023 –4. Antigona Pajaziti (joint w. A. Perucca) Luxemburg / Leiden 2023 –5. Alex Braat (joint w. P. Stevenhagen) Leiden 2022 –6. Håvard Damm-Johnsen (joint w. J. Newton) <i>Diagonal restrictions of Hilbert modular forms</i> Oxford 2020 – 20247. Mike Daas Leiden 2020 – 2024 <i>CM values of p-adic theta functions</i> Master <ol style="list-style-type: none">1. Jorre The current <i>Gauss composition and $fppf$ cohomology</i>2. Shenqi Fan (main supervisor: Lennart Meier) current <i>Equivariant elliptic genera</i>3. Bart van Kootwijk current <i>Rank heuristics for Diophantus' family of elliptic curves</i>4. Felix Kalker current <i>The Knopp cocycle and cycle integrals of the j-function</i>5. Emre Karayalçın current <i>Torsion in the homology of Bianchi groups and Galois representations</i>6. Maarten Stremler Leiden 2024 <i>Smooth differences of singular moduli</i>	

7. Mateo Crabit Nicolau	Paris	2024
<i>Holomorphic projections and Shimura curves</i>		
8. Michelle Jacobs	Leiden	2024
<i>Jacobi uniformisation over the p-adic numbers</i>		
9. David van der Vorm	Leiden	2024
<i>Torsion points on elliptic curves over \mathbf{Q}</i>		
10. Niels Ketelaars	Leiden	2023
<i>An effective version of Iwasawa's theorem</i>		
11. Sam Van Buuren	Leiden	2022
<i>Spectra of supersingular isogeny graphs</i>		
12. Giacomo Santato (ALGANT)	Leiden	2021
<i>Zeros of p-adic L-functions: the Ellenberg–Jain–Venkatesh conjecture</i>		
13. Giuditta Bellosi (ALGANT)	Leiden	2021
<i>From Pell's equation to Gross–Stark units</i>		
14. Emiel Haakma	Leiden	2021
<i>Heegner points and the Shimura correspondence</i>		
15. Jesse Freeman (Part C, Williams–Exeter Programme)	Oxford	2014
<i>L-functions and modular symbols</i>		

Bachelor

1. Rik van der Linde		current
<i>Congruentieklassen van Apolloniaanse netten</i>		
2. Thomas Chen	Leiden	2021
<i>The Leech lattice: Sphere packings and the Conway groups</i>		
3. Kevin Watmough (NSERC)	McGill	2017
<i>p-Adic torsors and statistics of the Hilbert symbol</i>		
4. David Marcil (NSERC)	McGill	2017
<i>Elkies' models for towers of modular curves</i>		
5. Isaac Loh (Williams–Exeter Programme)	Oxford	2014
<i>Pell-type equations and Mordell equations</i>		
6. Christopher Huffaker (Williams–Exeter Programme)	Oxford	2014
<i>Fermat's last theorem for regular primes</i>		
7. Jesse Freeman (Williams–Exeter Programme)	Oxford	2013
<i>Class field theory of \mathbf{Q}</i>		
8. Christopher Higgins (Williams–Exeter Programme)	Oxford	2012
<i>The friendship theorem and extensions</i>		
9. Zane Martin (Part B, Williams–Exeter Programme)	Oxford	2012
<i>Dirichlet's theorem on primes in arithmetic progressions</i>		

Pre-university

Lower Sixth students at Magdalen College School (Oxford), Waynflete Studies		
. Tom Daggitt:	<i>Mathematics using origami</i>	2014
. Stephen Jones:	<i>The properties of perfect numbers (Best essay prize)</i>	2014

INVITED TALKS	The Eisenstein ideal and Galois representations, Simons Foundation, New York	18–22 May 2026
	International Workshop on Automorphic Forms, SwissMAP	1–5 September 2025
	Modular forms in Bielefeld, Bielefeld	23–26 June 2025
	Rencontres Arithmétiques de Caen	18–20 June 2025
	Seminar on Arithmetic and Algebraic Geometry, München	22 January 2025
	Arithmetic and p -adic geometry in Chile, Santiago	2–14 December 2024

Swiss Number Theory Days, Brig	11–12 October 2024
Recent progress on Hilbert’s 12th problem, ICMS Edinburgh	24–29 June 2024
Simons Symposium on Periods and L-values of Motives, Schloss Elmau	9–15 June 2024
Arithmetic theta series and p -adic modular forms, Cetraro	3–7 June 2024
Periods in Physics, Number Theory and Algebraic Geometry, Bonn	22–26 March 2024
Arithmetic and Algebraic Geometry Seminar, Strasbourg	21 March 2024
Algebraic and Arithmetic Geometry Seminar, Bielefeld	13 February 2024
Rational points symposium, Leiden	23 January 2024
Eisenstein cocycles and their applications, UCL	18–20 December 2023
ALGANT Student Seminar, Milan	28 November 2023
Arithmetic Geometry Seminar, Milan	27 November 2023
Rational points on modular curves, ICTS Bangalore	11–22 September 2023
Y-RANT 2023, Cambridge	6–8 September 2023
Department Colloquium, Tor Vergata, Rome	20 July 2023
Workshop on Chabauty–Kim, Montserrat	28–30 June 2023
Number Theory Seminar, Gothenburg	7 June 2023
Edixhoven memorial conference, Leiden	30 May – 2 June 2023
Mini-course CM theory, Luminy	8–12 May 2023
Mathematics Colloquium, Darmstadt	3 May 2023
Colloque des sciences mathématiques, Montréal	11 November 2022
Modular forms in number theory and beyond, Bielefeld	22–26 August 2022
Mordell 2022 – A centenary of elliptic curves, Cambridge	15–19 August 2022
Mini course “Torsion points”, Baskerville Hall, Wales	8–12 August 2022
Mini course “Rigid cocycles and RM singular moduli”, PCMI Utah	1–5 August 2022
30 ^e Rencontres Arithmétiques, Caen	23–27 May 2022
Workshop Stark’s conjectures, Bristol	21–25 March 2022
Iwasawa theory and p -adic L-functions (II), Zhuhai	9 March 2022
Iwasawa theory and p -adic L-functions (I), Zhuhai	2 March 2022
Fields Institute Seminar, Toronto	28 February 2022
Graduation seminar Enis Kaya, Groningen	30 September 2021
CMS 75th Anniversary Meeting, Ottawa	7–11 June 2021
Number Theory Seminar (III), Seoul National University	26 April 2021
Séminaire Arithmétique et Géométrie Algébrique, Orsay	20 April 2021
Number Theory Seminar (II), Seoul National University	19 April 2021
Number Theory Seminar (I), Seoul National University	12 April 2021
Algebra Seminar, Brown University	8 March 2021
Algebra, Geometry & Number Theory Seminar, Leiden	1 March 2021
Number Theory Seminar, Warwick University	8 February 2021
AIM Workshop on Arithmetic intersection theory on Shimura varieties	4–8 January 2021
Luxembourg Number Theory Day	14 December 2020
DIAMANT Symposium, Leiden	26–27 November 2020
Representation Theory and Automorphic Forms, Vienna	24 November 2020
Algebra and NT Seminar, University College Dublin	27 October 2020
Connecticut Summer School in Number Theory (CTNT)	14 June 2020
ICERM Workshop on Arithmetic Geometry, Project leader (with N. Dogra)	1–5 June 2020
Number Theory Seminar, MIT	5 May 2020
Number Theory Seminar, Rutgers University	28 April 2020
Algebra/NT Seminar, Rochester	22 April 2020
International Seminar on Automorphic Forms, Darmstadt/ETH Zürich/Cologne	22 April 2020
Basic Notions seminar, IAS Princeton	2 April 2020
Arizona Winter School, Project assistant	7–11 March 2020
Johns Hopkins Number Theory Seminar, Baltimore	20 November 2019
NYU–CUNY–Columbia Number Theory Seminar, New York	14 November 2019
Automorphic p -adic L-functions and regulators, Lille	14–18 October 2019
IAS Members’ Seminar, Princeton	2 October 2019
Mini-course, Iwasawa 2019 Conference, Bordeaux	19–22 June 2019

p -Adic modular forms and p -adic L-functions, Lake Como	20–24 May 2019
SGA Seminar, Heidelberg/Darmstadt	26 April 2019
Number Theory Seminar, MPIM Bonn	24 April 2019
Number Theory Seminar, IAS/Princeton University	4 April 2019
Number Theory Seminar, University of Exeter	28 March 2019
London Number Theory Seminar, UCL	13 March 2019
Intercity Number Theory Seminar, University of Groningen	1 March 2019
Heilbronn Seminar, University of Bristol	20 February 2019
Séminaire de Théorie des Nombres à Paris 6/7, IMJ–PRG	4 February 2019
Joint Meeting AMS, Number Theory, Arith. Geom., and Comp., Baltimore	19 January 2019
Joint Meeting AMS, New directions in Complex Multiplication, Baltimore	16 January 2019
Number Theory Seminar, Boston University	3 December 2018
North Meets South Colloquium, University of Oxford	30 November 2018
Number Theory Seminar, University of Cambridge	27 November 2018
Oberseminar Zahlentheorie, University of Cologne	6 November 2018
London Number Theory Seminar, Imperial College	7 August 2018
Chabauty–Kim Workshop, Fondation Des Treilles	23–28 July 2018
Bellairs Workshop on Unitary Shimura Varieties, Barbados	3 May 2018
Number Theory and Algebraic Geometry Seminar, Boston College	19 April 2018
Colloquium, University of Manitoba	6 April 2018
Number Theory Seminar, Université Laval	23 March 2018
Number Theory Seminar, UCLA	5 March 2018
Number Theory Seminar, Caltech	2 March 2018
Montréal–Toronto Workshop on Unitary Shimura Varieties	13–14 January 2018
BAANTAG Conference, UC Berkeley	2 December 2017
Number Theory Seminar, University of Chicago	21 November 2017
Number Theory Seminar, Northwestern University	20 November 2017
Québec–Maine Number Theory Conference, Maine University	14 October 2017
Number Theory Seminar, UPC Barcelona	June 2017
Number Theory Seminar, Harvard University	12 April 2017
Québec–Vermont Number Theory Seminar, McGill University	9 February 2017
Québec–Maine Number Theory Conference, Université Laval	8–9 October 2016
Number Theory Seminar, University of Nijmegen	11 June 2016
Workshop on Serre’s Uniform Boundedness Conjecture, Toronto	12–13 May 2016
PIMS Abelian Varieties Seminar, PIMS Vancouver	4 March 2016
Number Theory Seminar, Simon Frasier University	3 March 2016
Colloquium, Cornell University	12 February 2016
Number Theory Seminar, Cornell University	12 February 2016
CMS Winter Meeting, Montréal	4 December 2015
Number Theory Seminar, Université Laval	13 November 2015
Québec–Vermont Number Theory Seminar, McGill University	22 October 2015
Québec–Maine Number Theory Conference, University of Maine	3–4 October 2015
Number Theory Seminar, Warwick University	9 March 2015
Intercity Number Theory Seminar, Leuven University	30 May 2014
Algebra and Geometry Seminar, Newcastle University	22 November 2012

CONFERENCES

- Arithmetic cycles, modular forms and L-functions**, CRM Montréal 18–22 August 2025
 I am co-organising, with Castella, Pozzi, Iovita, Dasgupta, Rosso, and Lei, a conference on the theme of p -adic methods in number theory, in honour of Henri Darmon’s 60th birthday.
- Arithmetic, Geometry, Space, and Time**, ICMS Edinburgh 25–29 November 2024
 Co-organised, with Dogra, Kim, and Kwon, a workshop in honour of Minhyong Kim’s 61st birthday dedicated to reciprocity laws and the nascent field of arithmetic quantum field theory.
- Archimedean and non-archimedean Kudla programmes**, Cetraro 3–7 June 2024
 Co-organised, with Disegni, Nicole, and Pati, a conference on the theme of the classical and p -adic Kudla programmes, and their many interactions and differences.

- Arithmetic Statistics**, CIRM Luminy 15–19 May 2023
 Co-organised, with Samuele Anni, Elisa Lorenzo Garcia, and Peter Stevenhagen (Jean Morlet Chair), a conference on the theme of discovering and proving randomness in number theory.
- Density Problems in Arithmetic**, CIRM Luminy 3–7 April 2023
 Co-organised, with Samuele Anni, and Peter Stevenhagen (Jean Morlet Chair), a workshop on recent progress on density problems in number theory.
- Deformation week**, Oxford 16–19 April, 2013
 Co-organised, with Emily Cliff and Kristian Strømme, a workshop on deformation theory, funded by the Mathematical Institute in Oxford.
- Rational points on curves**, Oxford 24–28 September, 2012
 Co-organised, with Alan Lauder, Minhyong Kim and Henri Darmon, a conference financed by the ERC, with a focus on p -adic and computational aspects of rational points on curves.

VISITING

University of Chicago	Chicago	May – Sep 2015
Max Planck Institute for Mathematics	Bonn	Apr 2019
CRM–Simons Fellowship	Montréal	Oct – Nov 2022
MSRI / Simons–Laufer Institute	Berkeley	Mar – Apr 2023