

CONTACT	Mathematical Institute Gorlaeus Building Einsteinweg 55 2333 CC Leiden (Netherlands)	Date of birth: 28 June, 1989 Citizenship: Belgian pub.math.leidenuniv.nl/~vonkjb/ j.b.vonk@math.leidenuniv.nl
EDUCATION	Ghent University / University of Iceland University of Cambridge University of Oxford	BSc in Mathematics 2010 MASt in Mathematics 2011 DPhil in Pure Mathematics 2015
APPOINTMENTS	CRM / McGill University , Montréal University of Oxford Institute for Advanced Study , Princeton University of Leiden	Postdoc 2015 – 2018 Postdoc 2018 – 2019 Postdoc 2019 – 2020 Assistant Professor (UD) 2020 – 2022 Associate Professor (UHD) 2022 – 2023 Professor (Hoogleraar) 2023 –
GRANTS	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 1. Felix Kalker (joint w. E. Sertöz) Leiden 2025 – 2. Beatrice Ostorero Vinci (joint w. S. Vigni) Genova / Leiden 2024 – 3. Mateo Crabit Nicolau (joint w. P. Charollois) Paris / Leiden 2024 – 4. Paolo Bordignon Leiden 2023 – 5. Alex Braat (joint w. P. Stevenhagen) Leiden 2022 – 6. Antigona Pajaziti (joint w. A. Perucca) Luxembourg / Leiden 2023 – 2026 <i>From Kummer theory to modular curves</i> 7. Håvard Damm-Johnsen (joint w. J. Newton) Oxford 2020 – 2024 <i>Diagonal restrictions of Hilbert modular forms</i> 8. Mike Daas Leiden 2020 – 2024 <i>CM values of p-adic theta functions</i> Master 1. Shenqi Fan (main supervisor: Lennart Meier) Utrecht current <i>Equivariant elliptic genera</i> 2. Rafaël Houkes (co-supervisor: Peter Bruin) Leiden 2026 <i>Stark units and SIC-POVMs</i> 3. Bart van Kootwijk Leiden 2025 <i>Ranks in Diophantus' family of elliptic curves</i> 4. Jorre The Leiden 2025 <i>Quadratic forms as fppf-torsors</i>	

5. Felix Kalker	Leiden	2025
<i>The Knopp cocycle and cycle integrals of the j-function</i>		
6. Emre Karayaçın	Leiden	2025
<i>Torsion in homology of Bianchi groups and Galois representations</i>		
7. Maarten Stremmer	Leiden	2024
<i>Smooth differences of singular moduli</i>		
8. Mateo Crabit Nicolau	Paris	2024
<i>Holomorphic projections and Shimura curves</i>		
9. Michelle Jacobs	Leiden	2024
<i>Jacobi uniformization over the p-adic numbers</i>		
10. David van der Vorm	Leiden	2024
<i>Torsion points on elliptic curves over $\mathbf{Q}$</i>		
11. Niels Ketelaars	Leiden	2023
<i>A Journey Through Iwasawa Theory</i>		
12. Sam van Buuren	Leiden	2022
<i>Spectra of supersingular isogeny graphs</i>		
13. Giacomo Santato (ALGANT)	Leiden	2021
<i>Zeros of p-adic L-functions: the Ellenberg–Jain–Venkatesh conjecture</i>		
14. Giuditta Bellosi (ALGANT)	Leiden	2021
<i>From Pell’s equation to Gross–Stark units</i>		
15. Emiel Haakma	Leiden	2021
<i>Heegner points and the Shimura correspondence</i>		
16. Jesse Freeman (Part C, Williams–Exeter Programme)	Oxford	2014
<i>L-functions and modular symbols</i>		

Bachelor

1. Rik van der Linde	Leiden	current
<i>Congruentieklassen van Apolloniaanse netten</i>		
2. Sibrand op de Beek	Leiden	2026
<i>De homologie van $\mathrm{SL}_3(\mathbf{Z})$</i>		
3. Anne van der Bijl	Leiden	2026
<i>On (non-)congruence subgroups of $\mathrm{SL}_2(\mathbf{Z})$</i>		
4. Mozes Marcus	Leiden	2025
<i>De Artin–Hasse machtreken</i>		
5. Sjors Verduin (joint w. E. Studnia)	Leiden	2025
<i>Perfectoid fields and Fontaine–Wintenberger’s theorem</i>		
6. Thomas Chen	Leiden	2021
<i>The Leech lattice: Sphere packings and the Conway groups</i>		
7. Kevin Watmough (NSERC)	McGill	2017
<i>p-Adic torsors and statistics of the Hilbert symbol</i>		
8. David Marcol (NSERC)	McGill	2017
<i>Elkies’ models for towers of modular curves</i>		
9. Isaac Loh (Williams–Exeter Programme)	Oxford	2014
<i>Pell-type equations and Mordell equations</i>		
10. Christopher Huffaker (Williams–Exeter Programme)	Oxford	2014
<i>Fermat’s last theorem for regular primes</i>		
11. Jesse Freeman (Williams–Exeter Programme)	Oxford	2013
<i>Class field theory of $\mathbf{Q}$</i>		

- | | | |
|---|--------|------|
| 12. Christopher Higgins (Williams–Exeter Programme) | Oxford | 2012 |
| <i>The friendship theorem and extensions</i> | | |
| 13. 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</i> (Best essay prize) | 2014 |

CONFERENCES

Algorithmic Number Theory Symposium (ANTS XVII), Groningen 6–10 July 2026

Co-organised, with Hess, Kılıçer, Lange, Müller, Özman, Streng, Top, Trimoska, a conference devoted to computational number theory and its applications.

Arithmetic cycles, modular forms and L-functions, CRM Montréal 18–22 August 2025

Co-organised, 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.

Arithmetic theta series and p -adic modular forms, Cetraro 3–7 June 2024

Co-organised, with Bruinier, 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