

## Education

- 2017-2021 **Phd Mathematics**, *London School of Geometry and Number Theory*, supervised by Dr. James Newton and Dr. Ana Caraiani.
- 2015-2017 **Master Mathematical Sciences**, *Utrecht University*, Honours programme - Utrecht Geometry Centre, *Cum Laude*.
- 2012-2015 **Bachelor Mathematics**, *Utrecht University*, Utrecht, *Cum Laude*.

## Publications and preprints

- Jun 2019 'A geometric Jacquet-Langlands correspondence for paramodular Siegel threefolds', <https://arxiv.org/abs/1906.04008>, submitted.

## Invited Talks

- Oct 2019 *Supersingular Abelian Varieties and Related Arithmetic*, Nagoya, Japan.
- Jul 2019 *Arithmetic and algebraic geometry seminar*, University of Amsterdam.

## Selected Seminar Talks

- Jun 2019 *Igusa varieties & Mantovan's formula*, London number theory study group.
- Mar 2019 *The derived Hecke algebra and derived deformation theory*, LNTSG.
- Feb 2019 *On Ribet's proof of the epsilon-conjecture*, London junior number theory seminar.
- Oct 2018 *Level lowering for  $GL_n$  via  $p$ -adic uniformisation*, Y-RANT, University of Sheffield.
- Oct 2018 *Perverse sheaves*, London number theory study group.
- Oct 2018 *Introduction to Shimura varieties*, London number theory study group.
- Jun 2018 *Proof of the (derived) direct summand conjecture*, Imperial college reading group.
- Apr 2018 *Perfectoid rings and the pro-étale site*, London number theory study group.
- Jan 2018 *Pure motives*, London number theory study group.
- Jan 2018  *$p$ -divisible groups*, London junior number theory seminar.
- Mar 2017 *Mixed complexes*, Seminar on perverse sheaves, University of Nijmegen.
- Apr 2016 *The Cassels-Tate pairing*, Seminar number theory, Utrecht University.
- Mar 2016 *Descent of morphisms*, Topics in algebraic geometry, University of Leiden.
- Feb 2016 *The étale site*, Topics in algebraic geometry, University of Leiden.

## Seminars Organized

- Winter 2019 *Reading group on derived deformation theory of Galois representations and derived Hecke algebras*, with Carl Wang-Erickson, Ashwin Iyengar and Alice Pozzi.
- Fall 2015 *Seminar on motivic homotopy theory*, with Alexander Gietelink.

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## Conferences/Workshops Attended

- Nov 2019 *Young researchers in algebraic number theory*, 3 days, Warwick, England.  
Oct 2019 *Supersingular Abelian Varieties and Related Arithmetic*, 5 days, Nagoya, Japan.  
Sep 2019 *Hausdorff School on the Emerton-Gee stack*, 5 days, Bonn, Germany.  
Jul 2019  *$p$ -adic modular forms and Galois representations*, 5 days, Sheffield, England.  
Jun 2019 *Serre's conjectures and the  $p$ -adic Langlands program*, 3 weeks, Padova, Italy.  
May 2019 *Workshop on the  $p$ -adic Langlands Programme*, 5 days, London, England.  
Apr 2019 *Hot topics: Recent progress in Langlands program*, 5 days, MSRI, Berkeley.  
Nov 2018 *Young researchers in algebraic number theory*, 2 days, Sheffield, England.  
Jun 2018 *Arithmetic and Algebraic Geometry*, 5 days, Institut des hautes études scientifiques.  
Sep 2017 *British Algebraic Geometry Meeting*, 3 days, Cambridge, England.  
Aug 2017 *Stockholm Master Class in Tropical Geometry*, 2 weeks, KTH, Sweden.  
Mar 2017 *Arizona Winter School 2017: 'Perfectoid Spaces'*, 5 days, United States of America.  
Aug 2016 *Advanced School and Workshop on Moduli Spaces, Mirror Symmetry and Enumerative Geometry*, 3 weeks, ICTP, Italy.  
Jun 2016 *Crash course Shimura Varieties*, 3 days, University of Leiden, The Netherlands.

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## Teaching Experience

- Summer 2019 **Undergraduate research opportunities programme** *Imperial College London*, Jointly with Chris Williams, I supervised Tin Lau's undergraduate summer project on local fields.
- Fall 2018 **Outreach** *London Maths Outreach*, I taught a 4 week course consisting on cryptography to year 11-12 students.
- Fall 2018 **Graduate teaching assistant** *King's College London*, I taught weekly tutorials to 3 groups for introduction to number theory.
- Summer 2018 **Counselor** *Ross mathematics program Asia*, 5 weeks, I was personally responsible for grading and tutoring four students. I taught the thrice-weekly seminars to groups of fifteen students. Moreover I taught a 11-part evening course to some other counselors on local fields and perfectoid fields.
- 2013-2017 **Teaching Assistant** *Utrecht University*.
- Rings and Galois Theory (Spring 2017)
  - Introduction to Probability and Statistics (Winter 2016)
  - Measure Theory (Fall 2016/Fall 2015)
  - Summer School Geometry (August 2016)
  - Lab course optics (Spring 2014). In the summer of 2014 I was involved in redesigning part of the curriculum for this course.
  - Introduction to Special Relativity (Fall 2013)

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## Languages

Dutch **Native Speaker**  
English **Fluent**

*Toefl score 117/120 (99th percentile)*