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Academic positions

- 10/2025 – present **Sorbonne Université, IMJ-PRG**, Paris, France.
Directeur de recherche du CNRS
- 12/2017 – 9/2025 **Université Paris-Saclay**, Orsay, France.
Chargé de recherche du CNRS
- 8/2017 – 11/2017 **Mathematical Institute of the University of Bonn**, Bonn, Germany.
Wissenschaftlicher Mitarbeiter
- 8/2014 – 7/2017 **Miller Institute for Basic Research in Science**, Berkeley, USA.
Miller Research Fellow

Visiting positions

- Fall/Spring 23/24 **Institute for Advanced Study**, Princeton, USA.
von Neumann Fellow in the special year on p -adic geometry
- 3/2019 – 5/2019 **Mathematical Sciences Research Institute**, Berkeley, USA.
Research Member in the program Derived Algebraic Geometry
- 7/2012 – 12/2012 **Bernoulli Center at the EPFL**, Lausanne, Switzerland.
Guest in the program Rational Points and Algebraic Cycles

Education

- 9/2020 **Université Paris-Saclay**, Orsay, France.
Habilitation à diriger des recherches
- 9/2010 – 6/2014 **Massachusetts Institute of Technology**, Cambridge, USA.
PhD in Mathematics; thesis advisor: Bjorn Poonen
- 9/2007 – 6/2010 **Jacobs University**, Bremen, Germany.
BSc in Mathematics

Selected awards and honors

- Prix Jacques Herbrand de l'Académie de Sciences**, France, 2023
- Prize of the Lithuanian Mathematical Society**, 2018
- Charles W. and Jennifer C. Johnson Prize**, MIT, 2014
- Praecis Presidential Graduate Fellowship**, MIT, 2010 – 2011

Gold medal, International Mathematical Olympiad 2007, Vietnam

Grants and Funding

- Project website **Simons Collaboration on Perfection in Algebra, Geometry and Topology**, 2023 – 2027 (an \$8M initiative of the Simons Foundation): PI alongside B. Antieau, B. Bhatt, D. Clausen, P. Colmez, T. Gee, A.J. de Jong, M. Emerton, J. Lurie, A. Mathew, W. Nizioł, M. Olsson, P. Scholze
- Project website **Member of the ANR project COLOSS**, 2020 – 2024
- Project overview **European Research Council Starting Grant**, 2019 – 2025

Publications and preprints

- arXiv:2505.00505 **Generically trivial torsors under constant groups**, with Alexis Bouthier and Federico Scavia, *submitted*.
- arXiv:2303.11710 **The analytic topology suffices for the B_{dR}^+ -Grassmannian**, with Alex Youcis, *accepted to the Proceedings of the Simons Symposium on p -adic Hodge theory (2022)*.
- doi:10.4171/... **Unramified Grothendieck–Serre for isotropic groups**, with Roman Fedorov, *accepted to the Journal of the European Mathematical Society (JEMS)*.
- doi:10.5802/... **The affine Grassmannian as a presheaf quotient**, *C. R. Math. Acad. Sci. Paris*, **363** (2025), 523–532.
- doi:10.4310/... **Torsors on the complement of a smooth divisor**, *Camb. J. Math.*, **12** (2024), no. 4, 903–936.
- doi:10.4171/... **The Manin constant and the modular degree**, with Michael Neururer and Abhishek Saha, *J. Eur. Math. Soc. (JEMS)*, **26** (2024), no. 2, 573–637.
- doi:10.4007/... **Purity for flat cohomology**, with Peter Scholze, *Ann. of Math. (2)*, **199** (2024), no. 1, 51–180.
- doi:10.24033/... **Torsors on loop groups and the Hitchin fibration**, with Alexis Bouthier, *Ann. Sci. Éc. Norm. Supér.*, **55** (2022), no. 3, 791–864.
- doi:10.1007/... **Problems about torsors over regular rings (with an appendix by Yifei Zhao)**, *Acta Math. Vietnam.*, **47** (2022), no. 1, 39–107.
- doi:10.1017/... **Grothendieck–Serre in the quasi-split unramified case**, *Forum Math. Pi*, **10** (2022), e9, 30 pp.
- doi:10.24033/... **Reconstructing a variety from its topology**, *Astérisque*, **430**, Séminaire Bourbaki. Vol. 2019/2021. Exposé 1175 (2021), 275–293.
- doi:10.1215/... **Macaulayfication of Noetherian schemes**, *Duke Math. J.*, **170** (2021), no. 7, 1419–1455.
- doi:10.14231/... **Grothendieck–Lefschetz for vector bundles**, *Algebr. Geom.*, **7** (2020), no. 4, 503–511.
- doi:10.1112/... **The A_{inf} -cohomology in the semistable case**, with Teruhisa Koshikawa, *Compos. Math.*, **155** (2019), no. 11, 2039–2128.
- doi:10.1215/... **Purity for the Brauer group**, *Duke Math. J.*, **168** (2019), no. 8, 1461–1486.
- doi:10.1112/... **The Manin constant in the semistable case**, *Compos. Math.*, **154** (2018), no. 9, 1889–1920.

- doi:10.1017/... **The ℓ -parity conjecture over the constant quadratic extension**, *Math. Proc. Cambridge Philos. Soc.*, **165** (2018), no. 3, 385–409.
- doi:10.2140/... **A modular description of $\mathcal{X}_0(n)$** , *Algebra & Number Theory*, **11** (2017), no. 9, 2001–2089.
- doi:10.14231/... **Coarse base change fails for some modular curves**, *Algebr. Geom.*, **4** (2017), no. 4, 444–451.
- doi:10.1112/... **p -Selmer growth in extensions of degree p** , *J. Lond. Math. Soc.*, **95** (2017), no. 3, 833–852.
- doi:10.1112/... **The remaining cases of the Kramer–Tunnell conjecture**, with Naoki Imai, *Compos. Math.*, **152** (2016), 2255–2268.
- doi:10.1515/... **The p -parity conjecture for elliptic curves with a p -isogeny**, *J. reine angew. Math.*, **719** (2016), 45–73.
- jrms:2016-031... **Selmer groups as flat cohomology groups**, *J. Ramanujan Math. Soc.*, **31** (2016), no. 1, 31–61.
- doi:10.1142/... **Local factors valued in normal domains**, *Int. J. Number Theory*, **12** (2016), no. 1, 249–272.
- doi:10.4310/... **Poitou–Tate without restrictions on the order**, *Math. Res. Lett.*, **22** (2015), no. 6, 1621–1666.
- doi:10.1017/... **Topology on cohomology of local fields**, *Forum Math. Sigma*, **3** (2015), e16, 55 pp.
- doi:10.1112/... **Selmer groups and class groups**, *Compos. Math.*, **151** (2015), no. 3, 416–434.

Editorial positions

- 2026 – present **Annales scientifiques de l'École normale supérieure**, *editor*.
- 2020 – present **Lithuanian Mathematical Journal**, *editor*.

Students

- 2023 – present **Qixiang Wang**, *PhD student*, Université Paris-Saclay.
- 2021 – 2024 **Shang Li**, *PhD student*, Université Paris-Saclay.
- 2020 – 2023 **Arnab Kundu**, *PhD student*, Université Paris-Saclay.
- 2022 **Yuchen Wu**, *master student*, Université Paris-Saclay.
- 2018 – 2021 **Ning Guo**, *PhD student*, Université Paris-Saclay.
- 2016 **Lukas Melninkas**, *master student*, Université Paris-Sud.

Postdocs

- 2026 – present **Anis Zidani**, Sorbonne Université.
- 2026 – present **Marta Benozzo**, Sorbonne Université.
- 2024 – present **Jason Kountouridis**, Université Paris-Saclay / Sorbonne Université.
- 2024 – 2025 **Daniel Kriz**, Université Paris-Saclay.
- 2021 – 2023 **Zhouhang Mao**, Université Paris-Saclay.
- 2022 – 2023 **Siddharth Mathur**, Université Paris-Saclay.
- 2021 **Kazuhiro Ito**, Université Paris-Saclay.
- 2020 – 2022 **Hiroki Kato**, Université Paris-Saclay.

2020 – 2021 **Zijian Yao**, Université Paris-Saclay.

2020 – 2021 **Yifei Zhao**, Université Paris-Saclay.

Conferences coorganized

12/2024 ([website](#)) **Analytic de Rham stacks**, Warsaw, Poland

6/2024 ([website](#)) **Algebraic K-theory and Brauer groups**, Casa Matemática Oaxaca, Mexico

11/2023 ([website](#)) **Workshop on p-adic Arithmetic Geometry**, IAS, Princeton, USA

9/2023 ([website](#)) **Arithmetic and cohomology of algebraic varieties**, Hanoi, Vietnam

6/2023 **Théorie des représentations à Lyon**, Institut Camille Jordan, Lyon, France

Selected invited talks

14/11/2025 **Number Theory Seminar**, ETH Zürich, Switzerland

8/10/2025 **Algebraic Geometry Seminar**, University of Toronto, Toronto, Canada

2/10/2025 ([video](#)) **Arithmetic Geometry and Algebraic Groups**, BIRS, Banff, Canada

1–5/9/2025 **Semaine de géométrie algébrique et arithmétique de Iași**, a minicourse, Iași, Romania

2/6/2025 **p-adic and Characteristic p Methods in Algebraic Geometry**, Bernoulli Center, Lausanne, Switzerland

24/3/2025 **Santiago Number Theory and Algebra Seminar**, Pontificia Universidad Católica de Chile, Chile

10–11/2024 **Selected topics in Arithmetic Algebraic Geometry**, a minicourse and a conference talk, Vietnam Academy of Science and Technology, Hanoi, Vietnam

4/10/2024 **Séminaire d'arithmétique et de géométrie algébrique**, Université Sorbonne Paris Nord, France

13/6/2024 **Algebraic and Arithmetic Geometry Seminar**, Università di Pisa, Pisa, Italy

14/3/2024 ([video](#)) **Workshop on p-adic Arithmetic Geometry**, Institute for Advanced Study, Princeton, USA

9/2/2024 **Algebraic geometry seminar**, Columbia University, New York City, USA

5/12/2023 **Algebraic geometry seminar**, Princeton University, Princeton, USA

27/11/2023 **Number theory and representation theory seminar**, University of Maryland, College Park, USA

31/10/2023 **Number theory seminar**, MIT, Cambridge, USA

24/10/2023 **Algebraic geometry seminar**, NYU Courant, New York, USA

21/7/2023 ([video](#)) **IHES Summer School – Recent Advances in Algebraic K-theory**, Institut des Hautes Études Scientifiques, Bures-sur-Yvette, France

12/6/2023 **Manin memorial meeting of the London–Paris number theory seminar**, Imperial College London, London, UK

18/1/2023 **Number theory seminar**, University of Tokyo, Tokyo, Japan

13/1/2023 **Representation theory and geometry of loop spaces**, Orsay, France

6/1/2023 **Séminaire Variétés Rationnelles**, Paris, France

5/12/2022 **Number theory seminar**, The Hebrew University of Jerusalem, Israel

- 26/9/2022 **Clay Research Conference p -adic Hodge Theory and Applications**, Oxford, UK
- 15/9/2022 **Deutsche Mathematiker-Vereinigung Annual Meeting**, Berlin, Germany
- 20–24/6/2022 **Minicourse at the Algebraic Geometry and Singularities Learning Workshop & Conference**, Seattle, USA
- 9/6/2022 **Topology and Arithmetic around the Langlands Program**, Stockholm, Sweden
- 9/5/2022 **Simons symposium: p -adic Hodge theory**, The Gleneagles Hotel, UK
- 4/5/2022 **p -adic Hodge theory and stacks**, Ann Arbor, USA
- 30/3/2022 **Cohomology of varieties**, Warsaw, Poland
- 15–17/3/2022 **Lectures for the strategic partnership project between the University of Tokyo and Paris Grandes Écoles**, online
- 1/3/2022 **Workshop in Arithmetic Geometry**, Rome, Italy
- 15/11/2021 **Seminario Matematico e Fisico di Milano**, Milan, Italy
- 5/11/2021 **Skorobogatov 60 – Conférence à l'honneur d'Alexei N. Skorobogatov**, Institut Henri Poincaré, Paris, France
- 27/10/2021 (video) **2021 Fields Medal Symposium: Peter Scholze**, online
- 9/9/2021 (video) **Arithmetic Geometry – Takeshi 60 (a conference on the occasion of Takeshi Saito's 60th birthday)**, online
- 8/6/2021 (video) **Arithmetic Geometry in honor of Luc Illusie**, Institut des Hautes Études Scientifiques, Bures-sur-Yvette, France
- 17/4/2021 (notes) **Séminaire Bourbaki**, Paris, France
- 21/7/2020 (notes) **Arithmetic Geometry**, Oberwolfach, Germany
- 30/1/2020 **North German Algebraic Geometry Seminar**, Leibniz Universität Hannover, Hannover, Germany
- 7/1/2020 **International Colloquium on Arithmetic Geometry**, Tata Institute of Fundamental Research, Mumbai, India
- 25/12/2019 **Algebra seminar**, Vietnam Academy of Science and Technology, Hanoi, Vietnam
- 6/11/2019 **Number theory seminar**, Harvard University, Cambridge, USA
- 19/9/2019 (video) **p -adic automorphic forms and perfectoid spaces**, International Center for Theoretical Sciences, Bangalore, India
- 12/7/2019 **Perfectoids**, Centre de Mathématiques Henri Lebesgue, Rennes, France
- 5/7/2019 (video) **Journée Gretchen & Barry Mazur**, Institut des Hautes Études Scientifiques, Bures-sur-Yvette, France
- 27/6/2019 (video) **Rational points on irrational varieties**, Institut Henri Poincaré, Paris, France
- 15/5/2019 **Algebraic geometry colloquium**, MSRI, Berkeley, USA
- 2/5/2019 **Simons symposium: p -adic Hodge theory**, Schloss Elmau, Germany
- 8/4/2019 **Joint IAS/Princeton University algebraic geometry seminar**, Institute for Advanced Study, Princeton, USA
- 2/4/2019 **Derived algebraic geometry seminar**, MSRI, Berkeley, USA
- 15/3/2019 **Intercity number theory seminar**, Universiteit Utrecht, Netherlands

- 12/3/2019 **Commutative algebra seminar**, Simion Stoilow Institute of Mathematics of the Romanian Academy, Bucharest, Romania
- 27/2/2019 **Algebra and geometry seminar**, KTH Royal Institute of Technology, Stockholm, Sweden
- 13/2/2019 **Number theory seminar**, University of British Columbia, Vancouver, Canada
- 5/11/2018 **Oberseminar: Algebraische Geometrie**, Universität Zürich, Switzerland
- 20/9/2018 **Belgian-Dutch algebraic geometry seminar**, Nijmegen, Netherlands
- 11/9/2018 **Arithmetic Geometry: ℓ -adic and p -adic aspects**, Tokyo, Japan
- 16/7/2018 **Algebraic geometry seminar**, BICMR, Beijing, China
- 27/6/2018 **London Number Theory Seminar**, London, UK
- 22/6/2018 **Séminaire Variétés Rationnelles**, Paris, France
- 22/5/2018 **Gropes algébriques et Géométrisation du Programme de Langlands**, Lyon, France
- 6/4/2018 (notes) **Arbeitsgemeinschaft Topological Cyclic Homology**, Oberwolfach, Germany
- 13/3/2018 (video) **Hot Topics: The Homological Conjectures**, MSRI, Berkeley, USA
- 30/1/2018 **Number theory seminar**, University of Cambridge, Cambridge, UK
- 25/8/2017 **Algebraic K-theory and arithmetic**, Będlewo, Poland
- 24/5/2017 **University of Tokyo workshop on arithmetic geometry**, Tambara, Japan
- 16/5/2017 **Number theory seminar**, University of Chicago, Chicago, USA
- 20/4/2017 **Quebec–Vermont number theory seminar**, Montreal, Canada
- 27/3/2017 **Elliptic Curves, Torsors, and L-functions**, Charlottesville, USA
- 20/2/2017 **Kyoto Top Global University Mathematics Workshop**, Kyoto, Japan
- 17/2/2017 **RTG Lectures in Arithmetic Geometry at Rice**, Houston, USA
- 9/4/2016 **Bay Area Algebraic Number Theory and Algebraic Geometry Day**, Berkeley, USA
- 5/3/2016 **Special Session on Elliptic Curves**, AMS Sectional Meeting, Athens, USA
- 4/7/2015 **Rational Points 2015**, Franken-Akademie Schloss Schney, Schney, Germany
- 16/6/2015 **Morningside Seminar on Number Theory**, Morningside Center of Mathematics, Chinese Academy of Sciences, Beijing, China
- 12/1/2015 **Special Session on Selmer Groups**, AMS Joint Mathematics Meetings, San Antonio, USA
- 12–14/11/2014 **Invited lecture series**, Kaunas University of Technology, Kaunas, Lithuania
- 4/5/2014 **Atkin memorial workshop**, University of Illinois at Chicago, Chicago, USA
- 25/7/2013 **Rational Points 2013**, Schloss Thurnau, Germany
- 19/7/2013 **Explicit Methods in Number Theory**, Oberwolfach, Germany
- 5/12/2012 **Heilbronn seminar**, University of Bristol, Bristol, United Kingdom

Committee service

- 7/2025 **Thesis committee (referee) for Yicheng Zhou**, Sorbonne Université.
- 10/2023 **Habilitation referee for Johannes Anshütz**, Universität Bonn.
- 3/2023 **Thesis committee (referee) for Guido Bosco**, Sorbonne Université.

- 1/2022 – present **Member of the CCUPS committee**, Université Paris-Saclay.
12/2021 **Thesis committee (referee) for Simon Jacques**, Université de Lorraine.
10/2021 **Thesis committee (referee) for Zhouhang Mao**, Sorbonne Université.
7/2021 **Thesis committee (referee) for Lukas Melninkas**, Université de Strasbourg.
6/2021 **Thesis committee for Amadou Bah**, Institut des Hautes Études Scientifiques.
5/2021 **Hiring committee for Maître de conférences**, Université Paris-Saclay.
10/2020 **Thesis committee for Min Yu**, Sorbonne Université.
9/2020 **Thesis committee for Sally Giles**, École normale supérieure de Lyon.
10/2019 – 6/2022 **Coorganizer of the SAGA seminar**, Université Paris-Saclay.
8/2015 **Thesis committee (referee) for Adam Morgan**, University of Bristol.

Teaching

- Spring 2023 **Immersion into research projects**, Université Paris-Saclay
Supervised four groups of students to write omitted proofs in the Stacks Project
- Spring 2017 **Integral relations between p-adic cohomology theories**
UC Berkeley number theory learning seminar ([plan](#))
- Spring 2013 **18.03 - Differential Equations**, recitation leader, MIT
- Fall 2011 **18.06 - Linear Algebra**, recitation leader, MIT

Other professional experiences

- 3/2015 **Problem session leader at the Arizona Winter School 2015**, [notes](#).
- 6/2011 – 7/2011 **Mentor for the Research Science Institute**, MIT, Cambridge, USA.
Designed and supervised two mathematics research projects for high-school students
- 2008 – 2011 **Lecturer at the IMO training camps**, Lithuania.
- 7/2008 **Author of the problem No. 3**, IMO 2008, Spain.