

Marta Pieropan

Heinrich Heine Universität Düsseldorf
 Universitätsstr. 1
 40225 Düsseldorf, Germany
 ☎ +49 (0)211 81 10536
 ✉ marta.pieropan@hhu.de
 🌐 reh.math.uni-duesseldorf.de/~pieropan

Personal

Date of birth: 11 February 1988

Place of birth: Zevio (VR), Italy

Nationality: Italian

Education

- 06/2015 **PhD**, *Leibniz Universität Hannover*, Thesis: *Torsors and generalized Cox rings for Manin's conjecture*, Advisor: Prof. Dr. U. Derenthal
- 07/2012 **Master ALGANT**, *Concordia University - Université Paris-Sud 11* (double degree), Thesis: *On the unirationality of Del Pezzo surfaces over an arbitrary field*, Advisor: Prof. C. Gasbarri
- 07/2010 **Laurea Triennale in Matematica**, *Università degli Studi di Padova*, Thesis: *Teoremi di Mordell e Lutz-Nagell. Relazioni con due classici problemi aritmetici*, Advisor: Prof. M. Candilera

Employment

- Since 08/2026 Juniorprofessor at Heinrich Heine Universität Düsseldorf, Germany.
- Since 04/2026 Associate professor at Utrecht University, Netherlands.
- 07/2020–03/2026 Assistant professor at Utrecht University, Netherlands.
- 09/2017–06/2020 Post-doc in the Algebraic Geometry group of Z. Patakfalvi at EPFL, Lausanne, Switzerland.
- 09/2015–08/2017 Wissenschaftliche Mitarbeiterin (post-doc) in the Arithmetic Geometry group of H. Esnault at Freie Universität Berlin, Germany.
- 04/2014–08/2015 Wissenschaftliche Mitarbeiterin (PhD student) at Leibniz Universität Hannover, Germany.
- 09/2012–03/2014 Wissenschaftliche Mitarbeiterin (PhD student) at LMU Munich, Germany.

Research visits

- 2019 (1 month) Trimester program *Reinventing Rational Points*, April 15 – July 12, 2019, at IHP, Paris, France.
- 2026 (3 months) Thematic program *Universal Statistics in Number Theory*, March 2 – July 3, 2026, at CRM, Montreal, Canada.
- 2026 (2 weeks) Research in Paris at IHP, Paris, France.

Grants

- 2024 Lorentz Center workshop subsidy, 6.875 Euros + ca. 23.000 Euros in-kind support.
- 2024 Foundation Compositio Mathematica workshop subsidy, 3.000 Euros.
- 2024 DIAMANT cluster workshop subsidy, 2.000 Euros.

- 2024 GQT cluster workshop subsidy, 1.500 Euros.
- 2023–2027 NWO VIDI 2021, *Fano varieties: rational points and beyond*, personal grant, 800.000 Euros.
- 2023–2028 NWO Open Competition ENW-XL 2021, *Rational points: new dimensions*, consortium grant (with M. Bright, V. Karemaker, R. van Luijk, S. Müller, C. Salgado), 2.970.529 Euros.
- 2010–2012 Erasmus Mundus scholarship for ALGANT master, 15.000 Euros.
- 2007–2010 INDAM scholarship for undergraduate studies, 12.000 Euros.

Preprints and publications

12. **Log geometry and lifting rational points**, (with L. Herr, S. Mehidi, T. Poirlet), Forum Math. Sigma, to appear. arXiv:2509.12167
11. **On rational points on classifying stacks and Malle’s conjecture**, (with S. Akhtari, J. Park, S. Sankar), Women in Numbers VI—Research Directions in Number Theory, Assoc. Women Math. Ser. 39, pp. 1-35, Springer, Cham., 2026
10. **Points of bounded height on certain subvarieties of toric varieties**, (with D. Schindler), Algebra Number Theory 19, no. 11, pp. 2281-2306, 2025
9. **Campana points on diagonal hypersurfaces**, (with F. Balestrieri, J. Brandes, M. Kaesberg, J. Ortmann, R. Winter), Women in Numbers Europe IV—Research Directions in Number Theory, Assoc. Women Math. Ser. 32, pp. 63-92, Springer, Cham., 2024
8. **Hyperbola method on toric varieties**, (with D. Schindler), J. Éc. polytech. Math. 11, pp. 107-157, 2024
7. **On rationally connected varieties over C_1 fields of characteristic 0**, Algebra Number Theory 16, no. 8, pp. 1811-1844, 2022
6. **Campana points of bounded height on vector group compactifications**, (with A. Smeets, S. Tanimoto and A. Varilly-Alvarado), Proc. Lond. Math. Soc. 123, no. 3, pp. 57-101, 2021
5. **On Galois descent of complete intersections**, Math. Res. Lett. 28, no. 4, pp. 1243-1254, 2021
4. **The split torsor method for Manin’s conjecture**, (with U. Derenthal), Trans. Amer. Math. Soc. 373, no. 12, pp. 8485–8524, 2020
3. **Cox rings over nonclosed fields**, (with U. Derenthal), J. Lond. Math. Soc. 99, no. 2, pp. 447-476, 2019
2. **O-minimality on twisted universal torsors and Manin’s conjecture over number fields**, (with C. Frei), Ann. Sci. Éc. Norm. Supér. (4) 49, no. 4, pp. 757-811, 2016
1. **Imaginary quadratic points on toric varieties via universal torsors**, Manuscripta Math. 150, no. 3, pp. 415-439, 2016

Conference Reports

- Campana points on Fano varieties**, ZAG Handbook of Algebraic Geometry, pp. 622-625, Chapman and Hall/CRC, 2025
- O-minimality and Manin’s conjecture**, Oberwolfach Rep. 14, no. 2, pp. 1366-1368, 2017

Invited talks

- 04/2026 Essener Seminar für Algebraische Geometrie und Arithmetik, Essen, Germany.
- 03/2026 Quebec-Vermont Number Theory Seminar, Montreal, Canada.
- 03/2026 Cox rings and applications, CIRM Luminy, France.
- 01/2026 Geometry, arithmetic & cohomology of higher dimensional varieties, Bologna, Italy.
- 10/2025 Definability in Number Theory and Arithmetic Geometry, Bonn, Germany.
- 07/2025 Oberseminar Algebra, Zahlentheorie und Diskrete Mathematik, Hannover, Germany.
- 06/2025 Giornate di Geometria Algebraica e Argomenti Correlati XVII, Palermo, Italy.
- 05/2025 Heilbronn Number Theory Seminar, Bristol, UK.
- 04/2025 Netherlands Mathematical Congress, Soesterberg, Netherlands.
- 03/2025 Diophantine and Rationality Problems, Sofia, Bulgaria.
- 10/2024 Dutch Analytic Number Theory Symposium, Utrecht, Netherlands.
- 09/2024 Ricercatori in Algebra e Geometria 2024, Milan, Italy.
- 07/2024 ICMS Seminar, Sofia, Bulgaria.
- 07/2024 The Mordell conjecture 100 years later, MIT Cambridge, USA.
- 02/2024 Algebra seminar, Groningen, Netherlands.
- 01/2024 New Directions in Rational Points, BIRS Chennai, India.
- 10/2023 ALGANT Alumni Network Symposium, Saint Jacut de La Mer, France.
- 08/2023 Queer In Number Theory and Geometry, Norfolk, UK.
- 06/2023 Oberseminar Zahlentheorie und Arithmetische Geometrie, Hannover, Germany.
- 06/2023 Geometric and Arithmetic Frontiers of Orbifolds II - Arithmetic and hyperbolicity, Strasbourg, France.
- 03/2023 Women in Number Theory 6, BIRS Banff, Canada.
- 03/2023 ANR FRACASSO workshop, Bordeaux, France.
- 11/2022 Arithmetic and Algebraic Geometry Seminar at UvA, Amsterdam, Netherlands.
- 10/2022 Intercity Number Theory Seminar, Leiden, Netherlands.
- 09/2022 O-minimality and Diophantine Geometry, CMI Oxford, UK.
- 06/2022 Séminaire d'Arithmétique et de Géométrie Algébrique, Paris, France.
- 04/2022 Rational points on higher-dimensional varieties, ICMS Edinburgh, UK.
- 04/2022 General Mathematics Colloquium at UvA, Amsterdam, Netherlands.
- 11/2021 Workshop on birational geometry, HSE Moscow, Russia (online).
- 09/2021 Arithmetic Statistics and Local-Global Principles, Vienna, Austria.
- 05/2021 Zoom Algebraic Geometry Seminar (online).
- 04/2021 VaNTAGe Seminar (online).
- 01/2021 GQT Colloquium, Netherlands (online).
- 11/2020 DIAMANT Symposium, Leiden, Netherlands (online).
- 11/2020 Séminaire Théorie des Nombres, Bordeaux, France (online).
- 11/2020 Utrecht Geometry Centre Seminar, Utrecht, Netherlands (online).
- 09/2020 DMV Jahrestagung 2020, Chemnitz, Germany (online).
- 09/2020 Modern Breakthroughs in Diophantine Problems, BIRS Banff, Canada (online).
- 10/2019 Workshop on Birational Geometry, HSE Moscow, Russia.
- 10/2019 Seminar of Geometry at Università Roma Tre, Rome, Italy.
- 09/2019 Topics in Rational and Integral Points, Basel, Switzerland.
- 07/2019 Rational points 2019, Schney, Germany.

- 05/2019 Seminari di Algebra e Geometria Algebrica at Università di Torino, Torino, Italy.
- 02/2019 Higher Dimensional Arithmetic Geometry, Kumamoto, Japan.
- 02/2019 Seminar at KIAS, Seoul, South Korea.
- 02/2019 Seminar at Ajou University, Suwon, South Korea.
- 01/2019 Number Theory Seminar, Grenoble, France.
- 11/2018 Algebraic Geometry and Number Theory Seminar, IST Austria.
- 11/2018 Constructions and obstructions in birational geometry, ICMS Edinburgh, UK.
- 10/2018 Basel–Dijon–EPFL Seminar, Dijon, France.
- 08/2018 Arithmetic and Geometry of cubic hypersurfaces, Hannover, Germany.
- 07/2018 Rational Points on Schiermonnikoog, Schiermonnikoog, Netherlands.
- 05/2018 Rational and Integral Points via Analytic and Geometric Methods, BIRS Oaxaca, Mexico.
- 03/2018 Number Theory Seminar, Utrecht, Netherlands.
- 03/2018 Number Theory Seminar, Basel, Switzerland.
- 10/2017 Seminar of Algebraic Geometry and Number Theory, Lausanne, Switzerland.
- 07/2017 Where Geometry meets Number Theory, Göteborg, Sweden.
- 06/2017 Workshop on O-minimality and Diophantine Applications, Fields Institute, Toronto, Canada.
- 05/2017 Heilbronn Number Theory Seminar, Bristol, UK.
- 05/2017 O-Minimality and its Applications to Number Theory and Analysis, Oberwolfach, Germany.
- 03/2017 Geometry Seminar, Nijmegen, Netherlands.
- 02/2017 Seminar in Algebra, Geometry and Arithmetic, Poznań, Poland.
- 01/2017 NoGAGS, Hamburg, Germany.
- 01/2016 Torsors in Arithmetic and Algebraic Geometry, Nice, France.
- 01/2016 Workshop on Rationality Questions, Bristol, UK.
- 12/2015 Arithmetic Geometry Seminar, FU Berlin, Germany.
- 10/2015 Young Women in Algebraic Geometry, Bonn, Germany.
- 09/2015 5. Jahrestagung DFG-Schwerpunktprogramm 1489, Osnabrück, Germany.
- 06/2015 Rational Points 2015, Schloss Schney, Germany.
- 05/2015 Séminaire “Variétés Rationnelles”, Paris, France.
- 02/2015 Intercity Number Theory Seminar, Leiden, Netherlands.
- 02/2015 2. Göttingen-Hannover Number Theory Workshop, Göttingen, Germany.
- 01/2015 Number Theory Seminar, University of Copenhagen, Denmark.
- 07/2014 ENFANT & ELEFANT, Workshop: Analytic Number Theory, Bonn, Germany.
- 07/2014 Oberseminar IAZD, Leibniz Universität Hannover, Germany.
- 03/2014 4. Jahrestagung DFG-Schwerpunktprogramm 1489, Bad Boll, Germany.
- 01/2014 CARP (Collaboration Around Rational Points), Bellairs Research Institute (McGill University), Barbados.
- 09/2013 Summer School in Algorithmic Mathematics, Hamburg, Germany.
- 02/2013 2nd Swiss-French Workshop in Algebraic Geometry, Enney, Switzerland.

Meetings organization

- 11/2025 *Compositio Prize Symposium* at Utrecht University, Netherlands. Co-organiser: A. Javanpeykar.
- 08/2025 *GQT School and Colloquium*, Netherlands. Co-organisers: R. Bocklandt, S. Gnaneakaran Gnanam.
- 07/2025 Scientific committee member for the *Symposium of the ALGANT Alumni Network* in Będlewo, Poland.
- 11/2024 *Instructional workshop on rational points* at the University of Groningen, Netherlands. Co-organisers: M. Bright, V. Karemaker, R. van Luijk, S. Müller, C. Salgado.
- 06/2024 *Intercity Number Theory Seminar* at Utrecht University, Netherlands.
- 03/2024 Workshop *Enumerative Geometry and Arithmetic* at the Lorentz Center in Leiden, Netherlands. Co-organizers: T. Browning, F. Carocci, D. Holmes.
- Since Fall 2023 Monthly meetings of the consortium *Rational Points: New Dimensions*. Co-organizers: M. Bright, V. Karemaker, R. van Luijk, S. Müller, C. Salgado.
- 05/2022 *Intercity Number Theory Seminar* at Utrecht University, Netherlands.
- 05/2018 Workshop *Birational Geometry and Arithmetic* at the Institute for Computational and Experimental Research in Mathematics (ICERM), Brown University, Providence, USA. Co-organizers: A. Auel, S. Tanimoto, Y. Tschinkel, A. Várilly-Alvarado.

Project leadership

- 03/2023 Leader of the project *Campana points of bounded heights on orbifold stacks* at the workshop Women In Number Theory 6 in Banff. Co-leader: J. Park.
- 08/2022 Leader of the project *Campana points and the circle method* at the workshop Women In Numbers Europe - 4 in Utrecht. Co-leader: J. Brandes.

Research seminars organization

- Fall 2025 Reading seminar: Geometric Manin Conjecture, at Utrecht University.
- 2023–2026 National coordinator of the Intercity Number Theory Seminar.
- Fall 2023 Reading seminar: Campana points, for the consortium *Rational Points: New Dimensions*.
- 2022/2023 Algebraic Geometry Seminar, at Utrecht University.
- 2021/2023 AG Preprint seminar: on recent preprints in the algebraic geometry or number theory sections on arXiv.org, at Utrecht University.
- Fall 2021 Reading seminar: The circle method, at Utrecht University.
- 2020/2021 Reading seminar: Logarithmic geometry and Gromov-Witten theory, at Utrecht University.
- 2020–2025 Utrecht Geometry Center Seminar, at Utrecht University.
- Fall 2016 Reading seminar: Berkovich spaces, birational geometry and motivic zeta functions, at FU Berlin.

Postdoc supervision

- Since Fall 2023 Sara Mehidi, at Utrecht University.
- Since Fall 2023 Soumya Sankar, at Utrecht University.
- 2022–2025 Remy van Dobben de Bruyn, at Utrecht University, supported by own NWO Veni grant.

PhD thesis supervision

- Since Fall 2024 Audrey Antoine, at Utrecht University.
- Since Fall 2023 Second supervisor of Victor de Vries, at Leiden University.
- Since Fall 2023 Justin Uhlemann, at Utrecht University.
- 2021–2025 Boaz Moerman, at Utrecht University.

Master thesis supervision

- Spring 2025 René Bruin, at Utrecht University. Co-supervisor: V. Karemaker.
- Fall 2024 Luke van de Kraats, at Utrecht University.
- Fall 2024 Michiel van den Eshof, at Utrecht University.
- Spring 2024 Michiel Horix, at Utrecht University.
- Spring 2023 Giacomo Maletto, at University of Turin.
- Fall 2021 Anouk Greven, at Utrecht University.
- Fall 2019 Grégoire Thomazeau, at EPFL.

Bachelor thesis supervision

- Spring 2025 Cas Dinnissen, at Utrecht University.
- Spring 2025 Pieter Mantel, at Utrecht University.
- Spring 2025 Mila Subotički, at Utrecht University.
- Spring 2024 Wout van der Meer, at Utrecht University.
- Fall 2023 Andrew Mensing, at Utrecht University.
- Spring 2023 Jonathan Grube, at Utrecht University.
- Fall 2022 René Bruin, at Utrecht University.
- Spring 2022 Sofie Kisjes, at Utrecht University.
- Spring 2022 Rishabh Suresh, at University College Utrecht.
- Fall 2021 Matthijs Holstege, at Utrecht University.
- Spring 2021 Mar van Bokhoven, at Utrecht University.

Supervision of other undergraduate projects

- Fall, 2020–2024 4 times Guiding a group of about five master students in Orientation in Mathematical Research, at Utrecht University.
- Fall 2018 Hector Pelletier, Master’s semester project, at EPFL.
- Fall 2017 Filippo Candia, Bachelor’s semester project, at EPFL.

Teaching experience

Bachelor courses

- Fall 2025 Foundations of Mathematics, at University College Utrecht.
- Spring 2025 Modules and Representations, at Utrecht University.
- Spring, 2021–2024 4 times Introduction to Algebraic Varieties, at Utrecht University.
- Spring, 2021–2022 2 times Advanced Mathematics, at University College Utrecht.
- Fall 2017 Rings and Modules, at EPFL.
- Fall, 2018–2019 2 times Tutor coordination: Analysis I, at EPFL.
- Fall 2014 Exercise sessions: Algebra 1, at Leibniz Universität Hannover.

Master courses

- Fall, 2022–2024 3 times Commutative Algebra (joint with D. Holmes), at Utrecht University.
- Fall 2021 Advanced Algebraic Geometry: Topics in Birational Geometry (joint with D. Martinelli), at Utrecht University.
- Spring 2018 Master/PhD seminar supervision: Sheaf Cohomology, at EPFL.
- Spring 2013 Exercise sessions: Algebraic Geometry 2, at LMU Munich.
- Fall, 2012–2013 2 times Exercise sessions: Algebraic Geometry 1, at LMU Munich.

Minicourses

- Summer 2024 Introduction to geometry of numbers, at the Training School in Algebraic Geometry and Arithmetic in Kigali, Rwanda
- Summer 2023 Geometry of Numbers, at the Summer School on Geometry in Utrecht, Netherlands.

Students tutor

- 2020–2026 Tutor for master students in the Algebraic Geometry and Number Theory track at Utrecht University.

 Outreach activities

- 10/2024 Speaker at the Bachelor's Open Days, Utrecht, Netherlands.
- 08/2023 Speaker and panelist at Queer In Number Theory and Geometry, Norfolk, UK.
- 06/2023 Invited guest at a lunch discussion on Women in Mathematics, Hannover, Germany.
- 04/2023 Fundamental Connections Campaign Interview, Utrecht, Netherlands.
- 03/2023 Speaker at the EWM-NL event Lead by Example, Utrecht, Netherlands.
- 02/2023 Speaker at the Mathematical Science Experience Day, Utrecht, Netherlands.
- 10/2022 Speaker at the Imaginary exhibition, Utrecht, Netherlands.
- 09/2022 Panelist at the roundtable discussion “Women in Mathematics: present and future”, Groningen, Netherlands.
- 04/2022 Speaker at Wiskunde Dagen, Noordwijk, Netherlands.
- 01/2022 Speaker at LGBTQ+ STEMinar 2022, Glasgow, UK (online).
- 11/2021 Local organizer of the *EWM-NL Annual Meeting 2021: The Importance of Networking* at Utrecht University, Netherlands. Co-organizers: P. Salanevich, M. Vlasiov.
- Since 2021 Mentor for the mentor network of EWM-NL.
- 2020–2026 Local EWM-NL representative at Utrecht University.

 Institutional responsibilities

- 2024–2026 Chair of the Bachelor theses committee, at Utrecht University.
- 2024–2026 MI advisory committee, at Utrecht University.
- 2024 Hiring committee for PhD positions, at Utrecht University.
- 2023 Graduate School of Natural Sciences Master's Thesis Award Committee, at Utrecht University.
- 2023–2025 Equality, Diversity & Inclusion Committee Science, at Utrecht University.
- 2023 Hiring committee for PhD positions, at Utrecht University.
- 2022 Hiring committee for postdoc positions, at Utrecht University.

- 2021–2026 Bachelor theses committee, at Utrecht University.
- 2021 Hiring committee for an Assistant Professor position, at Utrecht University.
- 2020–2022 Department advisory committee, at Utrecht University.
- 2020 Hiring committee for a PhD position, at Utrecht University.

Academic services

Refereeing and Reviewing

Referee or quick opinion for the following journals: Acta Arithmetica, Advances in Mathematics, Annales Scientifiques de l'École Normale Supérieure, Algebra Number Theory, Bulletin des Sciences Mathématiques, Canadian Mathematical Bulletin, Compositio Mathematica, Duke Mathematical Journal, European Journal of Mathematics, Institut des Hautes Études Scientifiques. Publications Mathématiques, International Journal of Number Theory, International Mathematics Research Notices, Journal für die Reine und Angewandte Mathematik, Journal of Number Theory, Journal of the London Mathematical Society, Mathematische Zeitschrift, Proceedings of the London Mathematical Society, Research in Number Theory, Transactions of the American Mathematical Society.

- Since 2017 Reviewer for Mathematical Reviews (MathSciNet) and zbMATH.
- 2025 Book review of *What determines an algebraic variety* by Kollár, Lieblich, Olsson, and Sawin, published in Nieuw Archief voor Wiskunde 5/26 no. 4, pp. 253-254, 2025.

Thesis committees

- 14/08/2026 Thesis report for the PhD defence of Gwen Kunde at Leibniz Universität Hannover.
- 15/07/2026 Examiner for the PhD defence of Nicolas Bongiorno at Université Grenoble Alpes.
- 06/07/2026 Examiner and thesis report for the PhD defence of Mathieu Da Silva at Université Paris-Saclay.
- 16/12/2025 Examiner for the Master's thesis defence of Anniek Reuijl at Utrecht University.
- 04/07/2025 Examiner for the Master's thesis defence of Bjorn Kiezebrink at Utrecht University.
- 14/04/2025 Examiner for the PhD thesis defence of Mar Curcó-Iranzo at Utrecht University.
- 27/06/2024 Examiner for the Master's thesis defence of Arjan de Boer at Utrecht University.
- 17/05/2024 Examiner for the PhD thesis defence of Tim Santens at KU Leuven.
- 05/03/2024 Examiner for the PhD thesis defence of Daniël van Gent at Leiden University.
- 05/01/2021 Examiner and thesis report for the PhD thesis defence of Rosa Winter at Leiden University.
- 16/07/2020 Examiner for the Master's thesis defence of Tysger Boelens at Utrecht University.

Other committees

- 2025–2026 NWO consultation committee Tafel Wiskunde.
- 08/2024 Practice interview committee for NWO Vidi grants, at Utrecht University.
- 11/2023 Practice job interview committee, at Utrecht University.
- 06/2023 Practice job interview committee, at Utrecht University.
- 05/2023 Practice interview committee for NWO Veni grants, at Utrecht University.
- 12/2022 Assessment committee for NWO Open Competitie - M grants.

Other academic services

Since 2025 Board member of the Foundation Compositio Mathematica, Netherlands.

Memberships

2025–2026 Royal Dutch Mathematical Society (KWG)

Since 2022 European Women in Mathematics

Since 2020 DIAMANT research cluster

Since 2020 GQT research cluster

Courses attended

2023/2024 5-day leadership training “Westerdijk programme”, at Utrecht University.

2023 7-hour training “Social safety”, at Utrecht University.

2023 2-day course “Intercultural competences in education”, at Utrecht University.

2023 90-min workshop “How to have a difficult conversation”, at Utrecht University.

2022 1-day training “Fire extinguishers”, at Utrecht University.

2021 1-day course “Unconscious bias and inclusive recruitment”, at Utrecht University.

2021 2-day course “Start to Teach”, at Utrecht University.

2021 3-day course “Management Support for Future Leaders”, at Utrecht University.

2020 1-hour course “Active bystander”, at Utrecht University.

2020 Course “Writing successful grant proposals”, at Utrecht University.

Certificates

2023 University Teaching Qualification (UTQ/BKO) at UU.

2025 Senior Research Qualification (SKOz) at UU.

Languages

Italian: mother tongue.

English: fluent.

Dutch: conversational.

French: conversational.

German: conversational.