Mateusz Michałek

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Current Position

- 2020–present Full Professor (W3), University of Konstanz

Previous Positions

- 2024–2025 Member, Institute for Advanced Study, Princeton
- 2018–2019 Associate Professor, Aalto University, Helsinki
- 2017–2020 W2 Research Group Leader, Max Planck Institute for Mathematics in the Sciences, Leipzig
- 2012–2019 Assistant Professor, Polish Academy of Sciences, Warsaw
- Sep 2016–Dec 2016 Visiting Research Scholar, Research Institute for Mathematical Sciences, Kyoto
- Aug 2016–Sep 2016 Postdoc, Max Planck Institute for Mathematics in the Sciences, Leipzig
- Feb 2016–Jun 2016 Postdoc, Freie Universität Berlin
- Aug 2014–Jan 2016 Postdoc, University of California, Berkeley
- Feb 2014–Jul 2014 Postdoc, Freie Universität Berlin
- Sep 2013–Nov 2013 Postdoc, University of Barcelona and Centre de Recerca Matemàtica, Barcelona
- Jul 2013–Aug 2013 Leibniz Fellow, Mathematisches Forschungsinstitut Oberwolfach
- Jul 2012–Jun 2013 Postdoc, Max Planck Institute for Mathematics, Bonn
- Apr 2012–Jul 2012 Postdoc, Polish Academy of Sciences, Warsaw

Education

- 2008 M.Sc. in pure mathematics, graduation with honours, Jagiellonian University, Cracow
- 2012 Ph.D. in Mathematics, Université Joseph Fourier, Grenoble (cotutelle)
  Advisor: Laurent Manivel
- 2012 Ph.D. in Mathematics, Polish Academy of Sciences, Warsaw (cotutelle)
  Advisor: Jarosław Wiśniewski

Honors and Awards

- 2024–2025 Member at IAS (Special Year – Charles Simonyi Endowment)

- 2016 START Scholarship of the Foundation for Polish Science
- 2015 Kuratowski Award
- 2014 Prize for the Young Mathematicians of the Polish Mathematical Society
- 2012 European Postdoctoral Institute Fellow
- 2009 Contest for the Best Student of the Jagiellonian University, first place
- 2008 Franciszek Leja's Prize for Young Mathematicians
- 2006–2011 Scholarships including: Sapere Auso, Scholarship of the Polish Ministry MNiSW, Scholarship of the French Government, Scholarship of the City of Cracow for most talented students, Scholarship Mobilité International Rhône-Alpes

Competitive Research Funding

- 2026-2028 DFG individual grant, EUR 225,944
- 2024–2028 TENORS grant, PI (financing for one PhD student, Horizon Europe's Marie Skłodowska-Curie Actions grant in cooperation with other universities; total financing: EUR 4,049,582.40)
- 2022–2025 DFG individual grant, EUR 209,400
- 2017 Grant Sonata Bis from the Polish National Science Center, 2016/22/E/ST1/00574, PI (PLN 902,650)
- 2015 Grant Iuventus Plus from the Polish Ministry of Science, 0301/IP3/2015/73, PI (PLN 300,000)
- 2015 PRIME DAAD fellow under Europe's Marie Skłodowska-Curie Actions
- 2013 Grant Sonata from the Polish National Science Center, 2012/05/D/ST1/01063, PI (PLN 280,800)
- 2012 Grant Preludium from the Polish National Science Center, 2011/01/N/ST1/05424, PI (PLN 80,000)
- 2011 Grant of the Polish Ministry of Science and Higher Education, N N201 413539, PI (PLN 50,000)

Doctoral and Master's Supervision

Completed Ph.D. students:

- Martin Vodicka, 2022 (Airbus Claude Dornier PhD Research Award)
- Tim Seynnaeve, 2020
- Paul Görlach, 2020 (with Bernd Sturmfels)

Current Ph.D. students:

- Matej Dolezalek, since 2024 (with Giorgio Ottaviani)
- Mario Bauer, since 2023 (with Claus Scheiderer)

Completed master's theses: two at the University of Konstanz and one at Leipzig University (while at MPI MiS); all three authors continued to doctoral studies.

Postdoctoral Mentoring

- 2020–2025, 2026–2027 Rodica Dinu (habilitation in Bucharest, 2026)
- 2020–2025 Hanieh Keneshlou (habilitation done at Uni Konstanz)
- 2022–2023 Austin Conner
- 2017 Emanuele Ventura
- 2017–2020 Emre Sertoz
- 2018 Laura Colmenarejo
- 2026–2027 Maciej Gałązka

Complete Invited Talks and Academic Travel

- 2027 SIAM Conference on Applied Algebraic Geometry (AG27), Osnabrück, Germany, 19–23 July (plenary speaker)
- 2026 AGSTA Conference on Tensors and Related Topics, Pusan National University, Busan, South Korea
- 2026 Focused Workshop on Asymptotic Tensor Parameters, Erdős Center, Rényi Institute, Budapest, Hungary
- 2026 Algebraic Geometry 2026, Vason, Italy
- 2025 TENORS Workshop, Konstanz, Germany (2 talks)
- 2025 Max Planck Institute for Mathematics in the Sciences, Leipzig, Germany
- 2025 Series of 5 lectures at Pusan National University and the AGSTA Workshop, Busan, South Korea
- 2025 FPSAC 2025, Sapporo, Japan (plenary speaker)
- 2025 Institute of Mathematics of the Polish Academy of Sciences, Cracow, Poland (3 talks)
- 2025 ITCS 2025, New York, USA
- 2025 Special Year Seminar, Institute for Advanced Study, Princeton, USA
- 2024 Series of 3 talks at the Institute for Advanced Study, Princeton, USA
- 2024 Geometry of Matroids Workshop, Princeton, USA
- 2024 Polish Academy of Sciences, Cracow, Poland
- 2024 Intercity Seminar, Bern, Switzerland
- 2024 Jagiellonian University, Cracow, Poland
- 2024 Combinatorial Coworkspace, Austria
- 2024 University of Fribourg, Switzerland

- 2023 University of Neuchâtel, Switzerland
- 2023 Technische Universität Berlin, Germany
- 2023 Pedagogical University, Cracow, Poland
- 2022 Lahore University of Management Sciences, Pakistan (online)
- 2022 Combinatorial, Computational and Applied Algebraic Geometry, Seattle, USA
- 2022 155 Years of Commutative Algebra, Osnabrück, Germany
- 2022 Geometry and Complexity Theory, Toulouse, France
- 2022 AMS Western Sectional Meeting, USA (online)
- 2022 Jagiellonian University, Cracow, Poland
- 2022 Max Planck Institute for Mathematics in the Sciences, Leipzig, Germany
- 2022 University of Bern, Switzerland
- 2021 University of Seville, Spain (online)
- 2021 Polish Academy of Sciences, Cracow, Poland (online)
- 2021 Max Planck Institute for Mathematics in the Sciences, Leipzig, Germany
- 2021 SIAM Conference on Applied Algebraic Geometry (online)
- 2021 IMPANGA 20, Będlewo, Poland (online)
- 2020 University of Trieste, Italy (online)
- 2020 University of Konstanz, Germany (online)
- 2020 IMPANGA, Polish Academy of Sciences, Warsaw, Poland (online)
- 2020 Technische Universität Berlin, Germany (online)
- 2020 Jagiellonian University, Cracow, Poland (online)
- 2020 Facets of Combinatorial and Applied Algebraic Geometry, Mumbai, India (online)
- 2020 Texas A&M University, College Station, USA (online)
- 2020 Pedagogical University of Cracow, Poland (online)
- 2020 University of Fribourg, Switzerland
- 2020 Max Planck Institute for Mathematics in the Sciences, Leipzig, Germany
- 2019 Texas A&M University, College Station, USA
- 2019 Texas Geometry and Topology Conference, College Station, USA
- 2019 University of Chicago, USA
- 2019 Toric Geometry Workshop, Oberwolfach, Germany
- 2019 University of Konstanz, Germany
- 2019 SIAM Conference on Applied Algebraic Geometry, Bern, Switzerland
- 2019 MEGA 2019, Madrid, Spain (plenary speaker)
- 2019 Workshop on Applied Algebra, Braunschweig, Germany

- 2019 Aalto University, Helsinki, Finland
- 2019 Jagiellonian University, Cracow, Poland
- 2019 University of Copenhagen, Denmark
- 2019 Singularities and Homological Aspects of Commutative Algebra, Oberwolfach, Germany
- 2019 University of Warwick, UK
- 2019 Duke University, USA
- 2018 SIMAI–UMI–PTM Joint Meeting, Wrocław, Poland (2 talks)
- 2018 Lefschetz Properties and Jordan Type in Algebra, Geometry and Combinatorics, Levico Terme, Italy
- 2018 University of Kaiserslautern, Germany
- 2018 University of Siegen, Germany
- 2018 Pedagogical University, Cracow, Poland (4 lectures)
- 2018 Aalto University, Helsinki, Finland
- 2017 Algebraic Methods in Statistics, Osnabrück, Germany
- 2017 University of Osnabrück, Germany
- 2017 NoGAGS 2017, Berlin, Germany
- 2017 Leibniz Universität Hannover, Germany
- 2017 Lattice Polytopes: Methods, Advances, Applications, Oberwolfach, Germany
- 2017 Interactions with Lattice Polytopes, Magdeburg, Germany
- 2017 Algebraic and Combinatorial Phylogenetics, Barcelona, Spain
- 2017 University of Konstanz, Germany
- 2017 Otto von Guericke University, Magdeburg, Germany
- 2017 Max Planck Institute for Mathematics in the Sciences, Leipzig, Germany (several talks)
- 2016 KAIST, Daejeon, South Korea (2 talks)
- 2016 Kyoto University, Japan
- 2016 Binomial Ideals and Algebraic Statistics, Kyoto, Japan
- 2016 Series of 10 lectures on toric varieties at RIMS, Kyoto, Japan
- 2016 Max Planck Institute for Mathematics in the Sciences, Leipzig, Germany (series of 4 talks)
- 2016 Algebraic Statistics and Symbolic Computation, RIMS, Kyoto, Japan
- 2016 Differential Geometry and its Applications, Brno, Czech Republic
- 2016 Technische Universität Berlin, Germany
- 2016 Applied Algebraic Geometry, KSIAM, Daejeon, South Korea
- 2016 KAIST, Daejeon, South Korea (2 talks)

- 2016 University of Osnabrück, Germany
- 2016 Toric Geometry Workshop, Oberwolfach, Germany
- 2016 Jagiellonian University, Cracow, Poland
- 2016 Theoretical Computer Science Seminar, Jagiellonian University, Cracow, Poland
- 2015 Algebra and Geometry Meeting, Barcelona, Spain
- 2015 Combinatorial and Experimental Methods in Commutative Algebra and Related Fields, Osnabrück, Germany
- 2015 Texas A&M University, College Station, USA
- 2015 University of California, Berkeley, USA
- 2015 Current Trends on Gröbner Bases, Osaka, Japan
- 2015 Technische Universität Berlin, Germany
- 2015 MEGA 2015, Trento, Italy
- 2015 Nonlinear Algebra, Berlin, Germany
- 2015 Texas A&M University, College Station, USA
- 2015 Bay Area Discrete Mathematics Day, Monterey, USA
- 2015 Algebraic Geometry Seminar, University of California, Berkeley, USA
- 2015 GOATS Seminar, University of California, Berkeley, USA
- 2015 Universidad de Sevilla, Spain
- 2015 Freie Universität Berlin, Germany
- 2014 AMS Session on Polyhedral Number Theory, San Francisco, USA
- 2014 San Francisco State University, USA
- 2014 Geometric Complexity Theory, Simons Institute, Berkeley, USA
- 2014 Goethe-Universität Frankfurt, Germany
- 2014 Interdisciplinary Approach to Tensor Decomposition, Trento, Italy
- 2014 Freie Universität Berlin, Germany
- 2014 ARTY 2 Conference, Nürnberg, Germany
- 2014 Horizons in Mathematics, Będlewo, Poland
- 2014 SMUGA Seminar, Institute of Mathematics of the Polish Academy of Sciences, Warsaw, Poland
- 2014 IMPANGA Seminar, Warsaw, Poland
- 2014 University of Warsaw, Poland
- 2013 SIAM Conference on Applied Algebraic Geometry, Fort Collins, USA
- 2013 Otto von Guericke University, Magdeburg, Germany
- 2013 University of Barcelona, Spain

- 2013 MEGA Conference, Goethe-Universität Frankfurt, Germany
- 2013 Combinatorial Algebraic Geometry, CIME–CIRM, Levico Terme, Italy
- 2013 Géométrie Algébrique en Liberté, Stockholm, Sweden
- 2013 Université Grenoble I, France
- 2013 University of Genoa, Italy
- 2012 University of Osnabrück, Germany
- 2012 Pedagogical University, Cracow, Poland
- 2012 Max Planck Institute for Mathematics, Bonn, Germany
- 2012 Algebraic Geometry in the Alleghenies, Pennsylvania State University, USA
- 2012 Combinatorial Commutative Algebra and Applications, MSRI, Berkeley, USA
- 2011 Algebraic Geometry in the Sciences, Oslo, Norway
- 2011 Technische Universität Berlin, Germany
- 2010 Barcelona Polytechnic, Spain
- 2010 Géométrie Algébrique en Liberté, Coimbra, Portugal
- 2010 University of Warsaw, Poland
- 2010 Université Joseph Fourier, Grenoble, France
- 2010 Workshop in Analytic and Algebraic Geometry, Łódź, Poland
- 2008 Second Polish Combinatorial Conference, Będlewo, Poland
- 2008 University of Poznań, Poland
- 2007 10th International Workshop for Young Mathematicians – Combinatorics, Cracow, Poland

Selected Conference and Workshop Organization

- 2026 Annual Meeting of the Deutsche Mathematiker-Vereinigung (DMV), Konstanz, 7–10 September (one of the organisers)
- 2026 Oberwolfach mini-workshop on Enumerative Geometry of Matroids, December (with Piotr Pokora)
- 2026 AGSTA Conference on Tensors and Related Topics, Pusan National University, Busan, South Korea
- 2025 Commutative Algebra and Applications at the Fields Institute
- 2025 Oberwolfach Graduate Seminar: Modern Algebraic Geometry in Algebraic Combinatorics and Tensors, Banach Center, Bedlewo, Poland (organizer and lecturer)
- 2022 MEGA 2022, Kraków (organiser with Piotr Pokora, Justyna Szpond and Tomasz Szemberg; member of the executive committee)
- 2022 Geometry in Complexity and Computations (local organiser)

- 2019 Workshop on Theoretical Computer Science and Algebraic Geometry (with Christian Ikenmeyer)
- 2018 Session "Geometry of Tensors" at the SIAM Annual Meeting
- 2018 Northern German Algebraic Geometry Seminar NoGAGS 2018
- 2018 Chow Lectures 2018
- 2017 Chow Lectures 2017
- 2017 40th Autumn School in Algebraic Geometry, "Binomial Ideals", Łukęcin (with Maria Donten-Bury)
- 2016 Session "Algebraic Statistics and Symbolic Computation" (with Prof. Takayama)
- 2015 IMPANGA 2015

Editorial and Refereeing Activity

- Associate Editor, *Collectanea Mathematica*
- 2020–2025 Editor, *Linear and Multilinear Algebra*
- Guest Editor, special volume of *Le Matematiche* on linear spaces of symmetric matrices
- Editor, *Schubert Varieties, Equivariant Cohomology and Characteristic Classes* (IMPANGA 15), EMS Series of Congress Reports, 2018 (with Jarosław Buczyński and Elisa Postinghel)

Journal refereeing (complete recorded list; duplicates removed)

- *Acta Mathematica*
- *Advances in Applied Mathematics*
- *Advances in Geometry*
- *Advances in Mathematics*
- *Algebra & Number Theory*
- *Algebraic Combinatorics*
- *Algebraic Statistics*
- *Annales de l'Institut Fourier*
- *Annales de l'Institut Henri Poincaré*
- *Annales Polonici Mathematici*
- *Annali della Scuola Normale Superiore di Pisa*
- *Annali dell'Università di Ferrara*
- *Asian Journal of Mathematics*
- *AUPC Studia Mathematica*
- *Bulletin of the London Mathematical Society*
- *Bulletin of Mathematical Biology*
- *Collectanea Mathematica*
- *Combinatorial Theory*
- *Communications in Contemporary Mathematics*
- *Contributions to Algebra and Geometry*
- *Discrete & Computational Geometry*
- *Discrete Mathematics and Theoretical Computer Science*
- *Duke Mathematical Journal*
- *The Electronic Journal of Combinatorics*
- *Épijournal de Géométrie Algébrique*
- *European Journal of Combinatorics*
- *Experimental Mathematics*
- *Filomat*
- *Foundations of Computational Mathematics*
- *Forum of Mathematics: Sigma*
- *Geometriae Dedicata*
- *Georgian Mathematical Journal*
- *Information Geometry*
- *International Mathematics Research Notices*
- *Inventiones Mathematicae*
- *Israel Journal of Mathematics*
- *Journal of Algebra*
- *Journal of Algebra and Its Applications*
- *Journal of Algebraic Combinatorics*
- *Journal of Algebraic Statistics*
- *Journal of the American Mathematical Society*
- *Journal of Combinatorial Algebra*
- *Journal of Combinatorial Theory, Series A*
- *Journal of the London Mathematical Society*
- *Journal of Mathematical Biology*

- *Journal of Pure and Applied Algebra*
- *Journal of Symbolic Computation*
- *Journal de Mathématiques Pures et Appliquées*
- *Journal für die reine und angewandte Mathematik*
- *Le Matematiche*
- *Linear Algebra and its Applications*
- *Linear and Multilinear Algebra*
- *Mathematische Annalen*
- *Mathematische Nachrichten*
- *Mathematika*
- *Mathematics of Computation*
- *Orbita Mathematicae*
- *Proceedings of the American Mathematical Society*
- *Proceedings of the Royal Society of Edinburgh, Section A*
- *Selecta Mathematica*
- *Semigroup Forum*
- *SIAM Journal on Applied Algebra and Geometry*
- *SIAM Journal on Matrix Analysis and Applications*
- *Transformation Groups*
- *Vietnam Journal of Mathematics*

Other reviewing and expert activity

- Conference and programme reviewing: FPSAC 2015, FOCS, MEGA, STOC 2025, and Banff IRS applications
- Book reviewing for Birkhäuser and Cambridge University Press
- Reviewer for *Mathematical Reviews* (MathSciNet; thirteen reviews) and *Zentralblatt MATH* (nine reviews)
- Evaluation of a promotion case for the Academy of Mathematics and Systems Science, Chinese Academy of Sciences (2024)
- Grant and expert review for the National Science Centre of Poland (NCN), the European Science Foundation, the Dutch Research Council (NWO), the Swiss National Science Foundation, the Humboldt Foundation, the International Centre for Mathematical Sciences, and the National Research, Development and Innovation Office of Hungary

Doctoral examinations

- Member of the evaluation committee at the public defence of the doctoral thesis of Lukas Gustafsson, KTH Royal Institute of Technology, Stockholm (8 December 2023)
- Referee of the doctoral dissertations of Roser Homs (Barcelona), Arthur Bik (Bern), Liena Colarte (Barcelona), Julian Vill (Konstanz), Alexander Taveira Blomenhofer (Konstanz), Vincenzo Galgano (Trento), Andreas Blatter (Bern) and Andreas Kretschmer (Magdeburg)

Departmental Service and Committees

- Internationalisation Officer of the Department of Mathematics and Statistics at the University of Konstanz
- Selection committees: three times for W2 research group leader positions at the Max Planck Institute for Mathematics in the Sciences, Leipzig; a permanent position in Konstanz; a fixed-term research position in Trento; several postdoctoral positions
- Member of the advisory board of the MEGA conference series

Membership in Scientific Societies

- Polish Mathematical Society (PTM)

Early Honors

- Silver Medal, International Mathematical Olympiad
- First Place, Polish Mathematical Olympiad
- Grand First Prize, International Mathematics Competition for University Students

Publications

Publication list attached separately.