

CURRICULUM VITAE

PERSONAL INFORMATION

Mateusz Michałek



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Sex Male | Date of birth 19/05/1986 | Nationality Polish

WORK EXPERIENCE

| | |
|-------------------|--|
| 2020.10- | W3 Full Professor University of Konstanz, Germany |
| 2018.12-2019.10 | Associate Professor Aalto University, Helsinki |
| 2017.03-2020.09 | W2 Research Group Leader Max Planck Institute, Leipzig |
| 2017.01-2017.02 | Visiting Researcher Max Planck Institute, Leipzig |
| 2016.10-2016.12 | Visiting Research Scholar Research Institute for Mathematical Sciences, Kyoto |
| 2016.09-2016.10 | Postdoc Max Planck Institute, Leipzig |
| 2016.02-2016.06 | Postdoc Freie Universität Berlin |
| 2014.08-2016.01 | Postdoc UC Berkeley |
| 2014.02 – 2014.08 | Postdoc Freie Universität Berlin |
| 2012.09 – 2019.12 | Assistant Professor Polish Academy of Sciences |
| 2013.09 – 2013.11 | Postdoc Barcelona University, Centre de Recerca Matematica |
| 2013.07-2013.08 | Leibniz Fellow Mathematisches Forschungsinstitut Oberwolfach |
| 2012.07 - 2013.07 | Postdoc Max Planck Institute, Bonn |
| 2012.04 - 2012.07 | Assistant Polish Academy of Sciences |

EDUCATION AND TRAINING

- 03.2012 Phd degree in mathematics
Universite Grenoble I
Polish Academy of Sciences, Warsaw
- 06.2008 M.Sc. degree in pure mathematics, graduation with honors
Jagiellonian University, Cracow

Organisational / managerial skills

- Grant management (supervised 4 finished grants – details in the next section)
- Organisation of conferences
 - one of the organisers of IMPANGA 2015 - <https://www.impan.pl/~impanga15/>
 - session organiser of Algebraic Statistics and Symbolic Computation, (main organizer: Prof. Takayama) - <http://www.math.kobe-u.ac.jp/cm/koen/2016-07-25.html>
 - organiser (together with Maria Donten-Bury) of Lukecin 2017 workshop 'Binomial Ideals' <https://www.mimuw.edu.pl/~marysia/Lukecin17.html>
 - organizer of Chow Lectures 2017 (with K. Adiprasito, C. Lehn, M. Schwarz) <http://www.mis.mpg.de/calendar/conferences/2017/chow2017.html> and 2018 (with C. Lehn) <https://www.mis.mpg.de/calendar/conferences/2018/chow2018.html> and 2020 (with C. Haase and B. Sturmfels) <https://www.mis.mpg.de/calendar/conferences/2020/chow2020.html>
 - organizer of the Northern German Algebraic Geometry Seminar NoGAGS 2018 <https://www.mis.mpg.de/calendar/conferences/2018/nogags2018.html>
 - organizer of the session Geometry of Tensors at SIAM Annual meeting 2018 (with Yang Qi) http://meetings.siam.org/sess/dsp_programsess.cfm?SESSIONCODE=64833
 - organizer of the workshop on Theoretical Computer Science and Algebraic Geometry 2019 (with C. Ikenmeyer) <http://people.mpi-inf.mpg.de/~cikenmey/tcsag/>
 - organizer of MEGA2022 (with P. Pokora, J. Szpond, T. Szemberg) and member of the executive committee <https://mega2022.up.krakow.pl/>
- Editor of „Vector bundles, Schubert varieties, equivariant cohomology and characteristic classes” EMS Series of Congress Reports https://www.ems-ph.org/books/book.php?proj_nr=226
- Member of W2 MPI MiS selection committee, fixed-term research position in Trento and several postdoc committees
- Referee for PhD thesis of Roser Homs (Barcelona) and Arthur Bik (Bern)
- Student's representative at the Faculty Board at the Jagiellonian University during master studies

ADDITIONAL INFORMATION

Editorial Work Associate editor of **Collectanea Mathematica**
Editor of **Linear and Multilinear Algebra**
Guest editor of **Le Matematiche** special volume on linear spaces of symmetric matrices

Projects **2021** DFG grant 209400 EUR
2017

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| Grants Honours and awards | <p>Grant NCN (Polish National Science Center – main science funding body in Poland) 2016/22/E/ST1/00574 SONATA BIS 2016 START Scholarship</p> <p>2015 Member of the Polish Mathematical Society</p> <p>Kuratowski Award</p> <p>2015-2017 Grant luventus Plus 0301/IP3/2015/73 (given by Polish Ministry of Science and Higher Education) Maestro Grant PRIME DAAD fellow 2014 Prize for the Young Mathematicians of the Polish Mathematical Society 2013 – 2016 Grant NCN 2012/05/D/ST1/01063 SONATA</p> <p>2012-2014 European Postdoctoral Institute Fellow 2012-2013 Grant NCN 2011/01/N/ST1/05424 PRELUDIUM Grant luventus Plus 2011-2012 Grant MNiSW (Polish Ministry of Science and Higher Education) N N201 413539 Grant luventus Plus 2009 – 2012 Doctus Scholarship Programme for PhD Students 2009 Contest for the Best Student of the Jagiellonian University 2008-2012 Co-tutelle scholarship program between Polish Academy of Sciences and Universite Joseph Fourier 2008 Franciszek Leja's prize for young mathematicians 2007 2006-2011 Scholarships including: Sapere Auso, Scholarship of the Polish Ministry MNiSW (former MEN), Scholarship of the French Government, Scholarship of the City of Cracow for most talented students, Scholarship Mobilite International Rhone-Alpes 2006 XIII International Mathematics Competition for University Students 2004 45th International Mathematical Olympiad Polish-Czech-Slovak Competition Polish Mathematical Olympiad</p> | <p>Grant director (902 650 PLN ≈ 214 760 EUR) (financing for PI, two postdocs and one PhD student)</p> <p>Members of the Polish Mathematical Society are nominated Most prestigious award in Poland for young mathematicians</p> <p>Grant director (300 000 PLN ≈ 72 290 EUR) (financing for PI and four postdocs) Participant</p> <p>Grant director (280 800 PLN ≈ 67 660 EUR) (financing for PI and two postdocs)</p> <p>Grant director (80 000 PLN ≈ 17 570 EUR) (financing for PI) Participant</p> <p>PI (50 000 PLN ≈ 12 600 EUR) (financing for PI) Participant</p> <p>First place</p> <p>Grand First Prize</p> <p>Silver medal First place First place</p> |
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| Lectures presented at Conferences and Seminars | 2021 SIAM AG (online) IMPANGA 20 (online) | Bedlewo |
| | 2020 Trieste, Italy (online) Konstanz, Germany (online) Warsaw, Poland (online) Berlin, Germany (online) Cracow, Poland (online) Mumbai, India (online) College Station (online) Cracow, Poland (online) Fribourg, Switzerland Leipzig, Germany | University of Trieste University of Konstanz IMPANGA, Polish Academy of Sciences Technische Universitaet Jagiellonian University Facets of CACAAG Texas A&M Pedagogical University of Cracow Fribourg University MPI MiS |
| | 2019 College Station College Station Chicago, USA Oberwolfach, Germany Konstanz, Germany Bern, Switzerland Madrid, Spain Braunschweig, Germany Helsinki, Finland Kraków, Poland Copenhagen, Denmark Oberwolfach, Germany | Texas A&M Texas Geometry and Topology Conference University of Chicago Toric Geometry workshop University of Konstanz SIAM AG MEGA19 (plenary speaker) Workshop on Applied Algebra Aalto University Jagiellonian University University of Copenhagen Singularities and Homological Aspects of Commutative Algebra University of Warwick Duke University |
| | Warwick, UK USA | |
| | 2018 Wrocław, Poland Levico Terme, Italy | SIMAI-UMI-PTM Joint Meeting (two talks) Lefschetz Properties and Jordan Type in Algebra, Geometry and Combinatorics University of Kaiserslautern Siegen Universitaet Pedagogical University (four lectures) Aalto University |
| | Kaiserslautern, Germany Siegen, Germany Cracow, Poland Helsinki, Finland | |
| | 2017 Osnabrueck, Germany Osnabrueck, Germany Berlin, Germany Hannover, Germany Oberwolfach, Germany | Algebraic Methods in Statistics University of Osnabrueck NoGAGS 2017 Leibnitz Universitaet Hannover Workshop Lattice Polytopes: Methods, Advances, Applications Interactions with Lattice Polytopes Algebraic and Combinatorial Phylogenetics University of Konstanz Otto von Guericke University MPI MiS (several talks) |
| | Magdeburg, Germany Barcelona, Spain Konstanz, Germany Magdeburg, Germany Leipzig, Germany | |
| | 2016 Daejeon, Korea Kyoto, Japan Kyoto, Japan Kyoto, Japan Leipzig, Germany Kyoto, Japan | KAIST (2 talks) Kyoto University Binomial Ideals and Algebraic Statistics Series of 10 lectures on toric varieties at RIMS MPI MIS (series of 4 talks) Algebraic Statistics and Symbolic Computation, RIMS Differential Geometry and its Applications Technische Universitaet Applied Algebraic Geometry, KSIAM |
| | Brno, Czech Berlin, Germany Daejeon, Korea | |

Daejeon, Korea
 Osnabrueck, Germany
 Oberwolfach, Germany
 Cracow, Poland
 Cracow, Poland

2015

Barcelona, Spain
 Osnabrueck, Germany

College Station, TX, USA
 Berkeley, CA, USA
 Osaka, Japan
 Berlin, Germany
 Trento, Italy
 Berlin, Germany
 College Station, TX, USA
 Monterey, CA, USA
 Berkeley, CA, USA
 Berkeley, CA, USA
 Sevilla, Spain
 Berlin, Germany

2014

San Francisco, CA, USA
 San Francisco, CA, USA
 Berkeley, USA

Frankfurt, Germany
 Trento, Italy

Berlin, Germany
 Nürnberg, Germany
 Będlewo, Poland
 Warsaw, Poland

Warsaw, Poland
 Warsaw, Poland

2013

Fort Collins, USA

Magdeburg, Germany
 Barcelona, Spain
 Frankfurt, Germany
 Levico Terme, Italy

Stockholm, Sweden
 Grenoble, France
 Genoa, Italy

2012

Osnabrueck, Germany
 Cracow, Poland
 Bonn, Germany
 State College, PA, USA

Berkeley, CA, USA

2011

Oslo, Norway
 Berlin, Germany

2010

Barcelona, Spain
 Coimbra, Portugal

KAIST (2 talks)
 University of Osnabrueck
 Toric Geometry Workshop
 Jagiellonian University
 TCS Jagiellonian University

Algebra and Geometry Meeting
 Combinatorial and Experimental Methods in
 Commutative Algebra and Related Fields
 A&M Texas University
 UC Berkeley
 Current Trends on Groebner Bases
 Technische Universitaet
 MEGA 2015
 NonLinear Algebra
 A&M Texas University
 Bay Area Discrete Mathematics Day
 UC Berkeley Algebraic Geometry Seminar
 GOATS Seminar
 Universidad de Sevilla
 Freie Universitaet

AMS Session on Polyhedral Number Theory
 SF State University
 "Geometric complexity theory" Simons
 Institute
 Goethe Universität
 „Interdisciplinary approach to tensor
 decomposition"
 Freie Universität
 ARTY 2 Conference
 Horizons in Mathematics
 Mathematical Institute of the Polish Academy
 of Sciences, SMUGA seminar
 IMPANGA seminar
 Warsaw University

"SIAM Conference on Applied Algebraic
 Geometry"
 Otto von Guericke University Magdeburg
 Barcelona University
 "MEGA Conference", Goethe University
 "Combinatorial Algebraic Geometry", CIME-
 CIRM
 "Geometrie Algebrique en Liberte"
 Universite Grenoble I
 University of Genoa

University of Osnabrueck
 Uniwersytet Pedagogiczny
 Max-Planck Institute
 "Algebraic Geometry in Alleghenies" Penn
 State University
 "Combinatorial Commutative Algebra and
 Applications" MSRI

"Algebraic geometry in sciences"
 Technische Universitaet

Barcelona Polytechnique
 „Geometrie Algebrique en Liberte"

Warsaw, Poland
Grenoble, France
Lodz, Poland

Warsaw University
Universite Joseph Fourier
„Workshop in Analitic and Algebraic
Geometry”

2008

Bedlewo, Poland
Poznan, Poland

„Second Polish Combinatorial Conference”
University of Poznan

2007

Cracow, Poland

10-th International Workshop for Young
Mathematicians -Combinatorics

Referring and expert's
opinion for

- Linear Algebra and Applications
- Journal of Algebra
- European Journal of Combinatorics
- Annales de l'Institut Fourier
- Collectanea Mathematica
- Journal of Algebra and Its Applications
- FPSAC 2015
- Experimental Mathematics
- Banff IRS Applications
- Journal of Symbolic Computation
- Journal of Algebraic Combinatorics
- Bulletin of the London Mathematical Society
- Journal of Pure and Applied Algebra
- Mathematische Nachrichten
- Birkhauser (book)
- Advances in Mathematics
- AUPC SM
- Vietnam Journal of Mathematics
- Journal of Algebra and Its Applications
- Foundations of Computational Mathematics
- NWO Dutch Research Council (grant applications)
- Journal of the American Mathematical Society
- Journal of Combinatorial Algebra
- Advances in Geometry
- Zentralblatt (<2016)
- Journal of Algebraic Statistics
- Journal of Mathematical Biology
- Annales Polonici Mathematici
- The Electronic Journal of Combinatorics
- Le Matematiche
- Discrete Mathematics and Theoretical Computer Science
- Algebra & Number Theory
- Linear and Multilinear Algebra
- Duke Mathematical Journal
- SIAM Journal on Applied Algebra and Geometry
- Filomat
- Bulletin of Mathematical Biology
- Journal of Combinatorial Theory A
- Acta Mathematica
- European Science Foundation (professorship applications)
- Israel Journal of Mathematics
- SIAM Journal on Matrix Analysis and Applications
- Annali dell'Universita di Ferrara
- Transformation Groups
- Mathematics of Computation
- Combinatorial Theory
- Journal für die *reine und angewandte Mathematik*
- Mathematical Reviews (>2015)

Reviewing for

Languages

Polish Mother tongue
English Fluent
French Fluent
German Basic

Current and former postdocs

Emanuele Ventura <https://sites.google.com/site/emanueleventurasw/>
Emre Sertoz <https://emresertoz.com/>
Laura Colmenarejo <https://sites.google.com/view/l-colmenarejo/home>
Rodica Dinu

Former PhD students

Tim Seynnaeve <https://www.mis.mpg.de/combag/members/tim-seynnaeve.html>
Paul Görlach <http://personal-homepages.mis.mpg.de/goerlach/> (co-advised with Bernd Sturmfels)

Current PhD students

Martin Vodicka

Master students

Max Kölbl