

## CURRICULUM VITAE

### PERSONAL INFORMATION

Mateusz Michałek



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

### WORK EXPERIENCE

|                   |  |
|-------------------|--|
| 2018.12-...       | Associate Professor<br>Aalto University, Helsinki                                |
| 2017.03-...       | W2 Research Group Leader<br>Max Planck Institute, Leipzig                        |
| 2017.01-2017.02   | Visiting Researcher<br>Max Planck Institute, Leipzig                             |
| 2016.10-2016.12   | Visiting Research Scholar<br>Research Institute for Mathematical Sciences, Kyoto |
| 2016.09-2016.10   | Postdoc<br>Max Planck Institute, Leipzig   |
| 2016.02-2016.06   | Postdoc<br>Freie Universität Berlin  |
| 2014.08-2016.01   | Postdoc<br>UC Berkeley   |
| 2014.02 – 2014.08 | Postdoc<br>Freie Universität Berlin  |
| 2012.09 – 2021.09 | Assistant Professor<br>Polish Academy of Sciences                                |
| 2013.09 – 2013.11 | Postdoc<br>Barcelona University, Centre de Recerca Matemàtica                    |
| 2013.07-2013.08   | Leibniz Fellow<br>Mathematisches Forschungsinstitut Oberwolfach                  |
| 2012.07 - 2013.07 | Postdoc<br>Max Planck Institute, Bonn  |
| 2012.04 - 2012.07 | Assistant<br>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](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)
- 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](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)
- Student's representative at the Faculty Board at the Jagiellonian University during master studies

**ADDITIONAL INFORMATION**

Editorial Work Associate editor of **Collectanea Mathematica**

|                    |             |   |  |
|--------------------|-------------|---|--|
| Projects           | <b>2017</b> | Grant NCN (Polish National Science Center Grant director (902 650 PLN ≈ 214 760 EUR) – main science funding body in Poland) | (financing for PI, two postdocs and one PhD student)   |
| Grants             |             | 2016/22/E/ST1/00574 SONATA BIS  |  |
| Honours and awards |             | <b>2016</b>   | START Scholarship  |
|                    |             | <b>2015</b>   | Member of the Polish Mathematical Society Members of the Polish Mathematical Society are nominated |
|                    |             | Kuratowski Award  | Most prestigious award in Poland for young mathematicians  |
|                    |             | <b>2015-2017</b>  |  |

Grant luventus Plus 0301/IP3/2015/73 (given by Polish Ministry of Science and Higher Education) Grant director (300 000 PLN  $\approx$  72 290 EUR) (financing for PI and four postdocs)

Maestro Grant Participant

PRIME DAAD fellow

**2014**

Prize for the Young Mathematicians of the Polish Mathematical Society

**2013 – 2016**

Grant NCN 2012/05/D/ST1/01063 SONATA Grant director (280 800 PLN  $\approx$  67 660 EUR) (financing for PI and two postdocs)

**2012-2014**

European Postdoctoral Institute Fellow

**2012-2013**

Grant NCN 2011/01/N/ST1/05424 Grant director (80 000 PLN  $\approx$  17 570 EUR) (financing for PI)

PRELUDIUM Participant

Grant luventus Plus

**2011-2012**

Grant MNiSW (Polish Ministry of Science and Higher Education) N N201 413539 PI (50 000 PLN  $\approx$  12 600 EUR) (financing for PI)

Grant luventus Plus Participant

**2009 – 2012**

Doctus Scholarship Programme for PhD Students

**2009**

Contest for the Best Student of the Jagiellonian University First place

**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 Grand First Prize

**2004**

45<sup>th</sup> International Mathematical Olympiad Silver medal

Polish-Czech-Slovak Competition First place

Polish Mathematical Olympiad First place

**2019**

Konstanz, Germany University of Konstanz

Bern, Switzerland SIAM AG

Madrid, Spain MEGA19 (plenary speaker)

Braunschweig, Germany Workshop on Applied Algebra

Helsinki, Finland Aalto University

Kraków, Poland Jagiellonian University

Copenhagen, Denmark University of Copenhagen

Oberwolfach, Germany Singularities and Homological Aspects of Commutative Algebra

Warwick, UK University of Warwick

Lectures presented at  
Conferences and Seminars

USA

**2018**Wroclaw, Poland  
Levico Terme, ItalyKaiserslautern, Germany  
Siegen, Germany  
Cracow, Poland  
Helsinki, Finland**2017**Osnabrueck, Germany  
Osnabrueck, Germany  
Berlin, Germany  
Hannover, Germany  
Oberwolfach, GermanyMagdeburg, Germany  
Barcelona, Spain  
Konstanz, Germany  
Magdeburg, Germany  
Leipzig, Germany**2016**Daejeon, Korea  
Kyoto, Japan  
Kyoto, Japan  
Kyoto, Japan  
Leipzig, Germany  
Kyoto, JapanBrno, Czech  
Berlin, Germany  
Daejeon, Korea  
Daejeon, Korea  
Osnabrueck, Germany  
Oberwolfach, Germany  
Cracow, Poland  
Cracow, Poland**2015**Barcelona, Spain  
Osnabrueck, GermanyCollege 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, USAFrankfurt, Germany  
Trento, Italy

Duke University

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 UniversityAlgebraic 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)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  
KAIST (2 talks)  
University of Osnabrueck  
Toric Geometry Workshop  
Jagiellonian University  
TCS Jagiellonian UniversityAlgebra 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 UniversitaetAMS Session on Polyhedral Number Theory  
SF State University  
"Geometric complexity theory" Simons  
Institute  
Goethe Universität  
„Interdisciplinary approach to tensor  
decomposition"

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  
 Warsaw, Poland  
 Grenoble, France  
 Lodz, Poland

**2008**

Bedlewo, Poland  
 Poznan, Poland

**2007**

Cracow, Poland

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 Politechnique  
 „Geometrique Algebrique en Liberte”  
 Warsaw University  
 Universite Joseph Fourier  
 „Workshop in Analitic and Algebraic  
 Geometry”

„Second Polish Combinatorial Conference”  
 University of Poznan

10-th International Workshop for Young  
 Mathematicians -Combinatorics

- Referring 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
  - 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
  - Israel Journal of Mathematics
  - SIAM Journal on Matrix Analysis and Applications
  - Mathematical Reviews (>2015)
- Reviewing for
- Zentralblatt (<2016)

## 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>
- Current 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)
  - Martin Vodicka
- Master students
- Max Kölbl