

# SIMON TELEN

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## EMPLOYMENT

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### Max Planck Junior Research Group Leader

April 2023 - ...

Max Planck Institute for Mathematics in the Sciences, Leipzig  
I lead a research group entitled ‘Numerical nonlinear algebra’

### Veni postdoc fellow

June 2022 - April 2023

Centrum Wiskunde & Informatica, Amsterdam  
NWO Veni project ‘New frontiers in numerical nonlinear algebra’

### Postdoctoral researcher in applied mathematics

August 2021 - May 2022

Max Planck Institute for Mathematics in the Sciences, Leipzig  
Supervisor: Michael Joswig

### Postdoctoral researcher in applied mathematics

October 2020 - July 2021

Max Planck Institute for Mathematics in the Sciences, Leipzig  
Supervisor: Bernd Sturmfels

## EDUCATION

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### Doctor in engineering science

2016 - 2020

KU Leuven, Department of Computer Science  
Supervisor: Marc Van Barel  
Dissertation title: *Solving Systems of Polynomial Equations*

### M.Sc. summa cum laude

2014 - 2016

KU Leuven  
Mathematical Engineering  
Master’s thesis title: *Solving Systems of Polynomial Equations*

### B.Sc. magna cum laude

2011 - 2014

KU Leuven  
Major in Electrical Engineering  
Minor in Mathematical Modelling of Living Systems

## AWARDS AND GRANTS

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**Veni grant awarded by the Dutch Research Council (NWO Talent Programme)** December 2021  
*for my research proposal entitled ‘New frontiers in numerical nonlinear algebra’ (€280.000).*

### Thematic Einstein Semester on Algebraic Geometry

October 2019 - January 2020

*A four month scholarship to participate in a research semester at TU Berlin.*

### Best poster award at the MEGA 2019 Conference

June 2019

Universidad Complutense de Madrid, Spain  
*for our poster ‘Robust Numerical Path Tracking for Polynomial Homotopies’ with Marc Van Barel and Jan Verschelde.*

### Best poster presentation award at the ISSAC 2018 conference

July 2018

City University of New York, USA  
*for our poster ‘Truncated Normal Forms for Solving Polynomial Systems’ with Bernard Mourrain and Marc Van Barel.*

### Erasmus program at Politecnico di Torino

September 2014 - June 2015

*A ten month scholarship to follow the program ‘Ingegneria Matematica’ in Turin.*

## RESEARCH INTERESTS

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### Numerical nonlinear algebra: methodology and applications.

- Solving systems of polynomial equations
- Discriminants and resultants
- Degenerations
- Toric geometry
- Euler integrals
- Tensors
- Numerical solution of multi-parameter, nonlinear eigenvalue problems
- Applications in particle physics and algebraic statistics

## PUBLICATIONS

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### Publications in international peer reviewed journals

- Daniele Agostini, Claudia Fevola, Anna-Laura Sattelberger, and Simon Telen. “Vector spaces of generalized Euler integrals”. In: *Communications in Number Theory and Physics* 18.2 (2024), pp. 327–370. DOI: <https://dx.doi.org/10.4310/CNTP.2024.v18.n2.a2>
- Claudia Fevola, Sebastian Mizera, and Simon Telen. “Principal Landau determinants”. In: *Computer Physics Communications* 303 (2024), p. 109278. ISSN: 0010-4655. DOI: <https://doi.org/10.1016/j.cpc.2024.109278>
- Barbara Betti, Marta Panizzut, and Simon Telen. “Solving equations using Khovanskii bases”. In: *Journal of Symbolic Computation* 126 (2025), p. 102340. ISSN: 0747-7171. DOI: <https://doi.org/10.1016/j.jsc.2024.102340>
- Claudia Fevola, Sebastian Mizera, and Simon Telen. “Landau Singularities Revisited: Computational Algebraic Geometry for Feynman Integrals”. In: *Phys. Rev. Lett.* 132 (10 Mar. 2024), p. 101601. DOI: [10.1103/PhysRevLett.132.101601](https://doi.org/10.1103/PhysRevLett.132.101601)
- Saiei-Jaeyeong Matsubara-Heo, Sebastian Mizera, and Simon Telen. “Four lectures on Euler integrals”. In: *SciPost Phys. Lect. Notes* (2023), p. 75. DOI: <https://scipost.org/10.21468/SciPostPhysLectNotes.75>
- Rob Claes, Karl Meerbergen, and Simon Telen. “Contour Integration for Eigenvector Nonlinearities”. In: *SIAM Journal on Matrix Analysis and Applications* 44.4 (2023), pp. 1619–1644. DOI: [10.1137/22M1497985](https://doi.org/10.1137/22M1497985)
- Dmitrii Pavlov, Bernd Sturmfels, and Simon Telen. “Gibbs manifolds”. In: *Information Geometry* (2023). DOI: <https://doi.org/10.1007/s41884-023-00111-2>
- Timothy Duff, Simon Telen, Elise Walker, and Thomas Yahl. “Polyhedral homotopies in Cox coordinates”. In: *Journal of Algebra and Its Applications* (2023), p. 2450073. DOI: <https://doi.org/10.1142/S0219498824500737>
- Bernd Sturmfels, Simon Telen, François-Xavier Vialard, and Max von Renesse. “Toric geometry of entropic regularization”. In: *Journal of Symbolic Computation* 120 (2024), p. 102221. ISSN: 0747-7171. DOI: <https://doi.org/10.1016/j.jsc.2023.102221>
- Daniele Agostini, Taylor Brysiewicz, Claudia Fevola, Lukas Kühne, Bernd Sturmfels, Simon Telen, and Thomas Lam. “Likelihood degenerations”. In: *Advances in Mathematics* 414 (2023), p. 108863. ISSN: 0001-8708. DOI: <https://doi.org/10.1016/j.aim.2023.108863>

- Michael Borinsky, Anna-Laura Sattelberger, Bernd Sturmfels, and Simon Telen. “Bayesian Integrals on Toric Varieties”. In: *SIAM Journal on Applied Algebra and Geometry* 7.1 (2023), pp. 77–103. DOI: <https://doi.org/10.1137/22M1490569>
- Simon Telen and Nick Vannieuwenhoven. “A Normal Form Algorithm for Tensor Rank Decomposition”. In: *ACM Trans. Math. Softw.* 48.4 (Dec. 2022). ISSN: 0098-3500. DOI: <https://doi.org/10.1145/3555369>
- Sebastian Mizera and Simon Telen. “Landau discriminants”. In: *Journal of High Energy Physics* 2022.8 (2022), pp. 1–57. DOI: [https://doi.org/10.1007/JHEP08\(2022\)200](https://doi.org/10.1007/JHEP08(2022)200)
- Matías R Bender and Simon Telen. “Toric eigenvalue methods for solving sparse polynomial systems”. In: *Mathematics of Computation* 91.337 (2022), pp. 2397–2429. DOI: <https://doi.org/10.1090/mcom/3744>
- Bernd Sturmfels and Simon Telen. “Likelihood equations and scattering amplitudes”. In: *Algebraic Statistics* 12.2 (2021), pp. 167–186. DOI: <https://doi.org/10.2140/astat.2021.12.167>
- Simon Telen, Marc Van Barel, and Jan Verschelde. “A Robust Numerical Path Tracking Algorithm for Polynomial Homotopy Continuation”. In: *SIAM Journal on Scientific Computing* 42.6 (2020), A3610–A3637. DOI: [10.1137/19M1288036](https://doi.org/10.1137/19M1288036)
- Simon Telen, Sascha Timme, and Marc Van Barel. “Backward error measures for roots of polynomials”. In: *Numerical Algorithms* 87.1 (2021), pp. 19–39. DOI: <https://doi.org/10.1007/s11075-020-00956-z>
- Simon Telen. “Numerical root finding via Cox rings”. In: *Journal of Pure and Applied Algebra* 224.9 (2020), p. 106367. ISSN: 0022-4049. DOI: <https://doi.org/10.1016/j.jpaa.2020.106367>
- Bernard Mourrain, Simon Telen, and Marc Van Barel. “Truncated normal forms for solving polynomial systems: Generalized and efficient algorithms”. In: *Journal of Symbolic Computation* 102 (2021), pp. 63–85. ISSN: 0747-7171. DOI: <https://doi.org/10.1016/j.jsc.2019.10.009>
- Simon Telen, Bernard Mourrain, and Marc Van Barel. “Solving Polynomial Systems via Truncated Normal Forms”. In: *SIAM Journal on Matrix Analysis and Applications* 39.3 (2018), pp. 1421–1447. DOI: <https://doi.org/10.1137/17M1162433>
- Simon Telen and Marc Van Barel. “A stabilized normal form algorithm for generic systems of polynomial equations”. In: *Journal of Computational and Applied Mathematics* 342 (2018), pp. 119–132. ISSN: 0377-0427. DOI: <https://doi.org/10.1016/j.cam.2018.04.021>

### Publications in conference proceedings

- Simon Telen, Bernard Mourrain, and Marc Van Barel. “Truncated normal forms for solving polynomial systems”. In: *ACM Communications in Computer Algebra* 52.3 (2019), pp. 78–81. DOI: <https://doi.org/10.1145/3313880.3313888>

### Book chapters

- Simon Telen. “Systems of polynomial equations: theory and practice”. In: *Polynomial Optimisation, Moments, and Applications, Springer Optimization and Its Applications, edited by Michal Kočvara, Bernard Mourrain and Cordian Riener* (2023). DOI: <https://doi.org/10.1007/978-3-031-38659-6>

### Preprints

- Simon Telen and Maximilian Wiesmann. “Euler Stratifications of Hypersurface Families”. In: *arXiv:2407.18176* (2024)
- Dmitrii Pavlov and Simon Telen. “Santaló Geometry of Convex Polytopes”. In: *arXiv:2402.18955* (2024)

- Kristian Ranestad, Rainer Sinn, and Simon Telen. “Adjoints and Canonical Forms of Tree Amplituhedra”. In: *arXiv:2402.06527* (2024)
- Zaineb Bel-Afia, Chiara Meroni, and Simon Telen. “Chebyshev Varieties”. In: *arXiv:2401.12140* (2024)
- Fulvio Gesmundo, Leonie Kayser, and Simon Telen. “Hilbert Functions of Chopped Ideals”. In: *arXiv:2307.02560* (2023)
- Kemal Rose, Bernd Sturmfels, and Simon Telen. “Tropical Implicitization Revisited”. In: *arXiv:2306.13015* (2023)
- Saiei-Jaeyeong Matsubara-Heo and Simon Telen. “Twisted Cohomology and Likelihood Ideals”. In: *arXiv:2301.13579* (2023)
- Paul Breiding, Mateusz Michałek, Leonid Monin, and Simon Telen. “The Algebraic Degree of Coupled Oscillators”. In: *arXiv:2208.08179* (2022)
- Simon Telen. “Introduction to Toric Geometry”. In: *arXiv:2203.01690* (2022)
- Kathlén Kohn, Ragni Piene, Kristian Ranestad, Felix Rydell, Boris Shapiro, Rainer Sinn, Miruna-Stefana Sorea, and Simon Telen. “Adjoints and Canonical Forms of Polypols”. In: *arXiv:2108.11747* (2021)
- Matías R Bender and Simon Telen. “Yet Another Eigenvalue Algorithm for Solving Polynomial Systems”. In: *arXiv:2105.08472* (2021)

## SELECTED COLLOQUIA AND SEMINAR TALKS

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For a complete list, see <https://simontelen.webnode.com/publications/>.

<i>Euler discriminants in physics and statistics</i> Methusalem colloquium, KU Leuven	April 2024
<i>Computational algebraic geometry for Landau analysis</i> Motives and period integrals in quantum field theory and string theory, University of Oxford	January 2024
<i>Tensors, polynomials and applications</i> Chemnitz Mathematical Colloquium, TU Chemnitz	November 2023
<i>Twisted Cohomology and Likelihood Ideals</i> Amplitudes group meeting, IAS Princeton	February 2023
<i>Toric Geometry of Entropic Regularization</i> Oberseminar Osnabrück	November 2022
<i>Toric Geometry of Entropic Regularization</i> Angewandte analysis seminar, MPI MiS Leipzig	May 2022
<i>Landau Discriminants</i> ETH-ITS Zürich, Switzerland	April 2022
<i>Landau Discriminants</i> Amplitudes group meeting, IAS Princeton	November 2021
<i>Likelihood Equations and Scattering Amplitudes</i> HEP seminars at Southampton, University of Southampton	April 2021
<i>Eigenvalue Methods for Solving Polynomial Systems</i> N&O Seminar, CWI, Amsterdam	March 2021

<i>Solving Polynomial Systems via Truncated Normal Forms</i> NumPi Seminar, Università di Pisa	October 2020
<i>Numerical Root Finding via Cox Rings</i> Forschungsseminar Diskrete Mathematic/Geometrie, TU Berlin	January 2020
<i>Truncated Normal Forms</i> Algorithmic Algebra Seminar, TU Berlin	December 2019
<i>Numerical Root Finding via Cox Rings</i> Seminar Algebraische Geometrie, FU Berlin	November 2019
<i>Robust Numerical Path Tracking in Polynomial Homotopies</i> NUMA seminar, KU Leuven	April 2019
<i>Stabilized Algebraic Methods for Multivariate Polynomial Root Finding</i> Research visit with Tomas Pajdla, CIIRC	March 2019
<i>Stabilized Algebraic Methods for Multivariate Polynomial Root Finding</i> Research visit with Bernd Sturmfels, MPI Leipzig	December 2018
<i>Polynomial System Solving through Stabilized Representation of Quotient Algebras</i> Research visit with Tyler Jarvis, BYU, Provo	April 2018
<i>Polynomial System Solving and Numerical Linear Algebra</i> Research visit with Bernard Mourrain, INRIA, Sophia-Antipolis	September 2017

## SELECTED TALKS AND POSTERS AT CONFERENCES

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For a complete list, see <https://simontelen.webnode.com/publications/>.

<i>Introduction to positive geometry</i> Positive Solutions of Polynomial Systems Arising from Real-life Applications, University of Granada	May 2024
<i>Euler discriminants in physics and statistics</i> New Frontiers in Landau Analysis, The Higgs Centre for Theoretical Physics, Edinburgh	April 2024
<i>Santaló geometry of convex polytopes</i> Workshop on Applied and Computational Algebraic Geometry, ISAAC Newton Institute for mathematical sciences, Cambridge	January 2024
<i>Principal Landau Determinants</i> Tropical geometry and infrared divergences, IAS Princeton	October 2023
<i>Chebyshev varieties</i> Workshop on Computational and Applied Mathematics, on the occasion of Marc Van Barel's retirement, Selva di Fasano	September 2023
<i>Twisted cohomology and likelihood ideals</i> ICIAM, Waseda University, Tokyo	August 2023
<i>Structured root finding via eigenvalues: beyond toric varieties</i> Workshop on Hypergeometric Functions, Kobe University	August 2023
<i>Structured root finding via eigenvalues: beyond toric varieties</i> SIAM Conference on Applied Algebraic Geometry, TU Eindhoven	July 2023
<i>Vector Spaces of Generalized Euler Integrals</i> Joint Mathematics Meetings, Boston	January 2023
<i>Numerical Nonlinear Algebra in Particle Physics</i> DIAMANT Symposium, Leiden	November 2022

<i>Solving Polynomial Equations and Applications</i> Workshop on Solving Polynomial Equations and Applications, CWI Amsterdam	October 2022
<i>Generalized Euler Integrals: (Co)homology and Tropical Numerics</i> Convex and Tropical Geometry and Feynman Integrals, ETH Zürich	September 2022
<i>Toric Geometry of Entropic Regularization</i> MEGA 2022, Krakow	June 2022
<i>Complexity of Tensor Decomposition and Hilbert Functions</i> AGATES Algebraic Geometry and Complexity Theory Workshop, IMPAN, Warsaw	November 2022
<i>Landau Discriminants</i> Workshop on nonlinear algebra and combinatorics from physics, Harvard	May 2022
<i>Bayesian Integrals on Toric Varieties</i> Mini-workshop on algebraic statistics, Harvard	May 2022
<i>Discriminants from particle physics</i> Nonlinear algebra day, RWTH Aachen	April 2022
<i>Tropical Integration in Physics and Statistics</i> Feynman integrals and nonlinear algebra, MPI MiS Leipzig	March 2022
<i>A Normal Form Method for Numerical Tensor Rank Decomposition</i> SIAM Conference on Applied Algebraic Geometry, Texas A&M (online)	August 2021
<i>Likelihood Equations and Scattering Amplitudes</i> Geomplitudes, online meeting organized by UC Davis	February 2021
<i>Cox Homotopies: Tracking Homogeneous Coordinates on Toric Varieties</i> Joint Mathematics Meetings, Washington DC (online)	January 2021
<i>Numerical Root Finding via Cox Rings</i> Milestone conference of the thematic Einstein semester ‘Algebraic Geometry’, Berlin	February 2020
<i>Numerical Root Finding via Cox Rings (poster)</i> Opening conference of the thematic Einstein semester ‘Algebraic Geometry’, Berlin	October 2019
<i>Robust Numerical Path Tracking in Polynomial Homotopies</i> ICIAM conference, Valencia	July 2019
<i>Solving Nonlinear Eigenvalue Problems using Contour Integration</i> ICIAM conference, Valencia	July 2019
<i>Numerical Root Finding via Cox Rings</i> SIAM AG conference, Bern	July 2019
<i>Robust Numerical Path Tracking for Polynomial Homotopies (poster)</i> MEGA conference, Madrid	June 2019
<i>Numerical Root Finding via Cox Rings (poster)</i> Conference ‘Ideals, Varieties and Applications’ (celebrating the influence of David Cox), Amherst	June 2019
<i>Truncated Normal Forms for Solving Polynomial Systems (poster)</i> ICERM nonlinear algebra semester, workshop ‘Core Computational Methods’, Providence	September 2018
<i>Truncated Normal Forms for Solving Polynomial Systems (poster)</i> ISSAC conference, New York	July 2018
<i>Truncated Normal Forms for Solving Polynomial Systems (poster)</i> CBMS conference on Applications of Polynomial Systems, Fort Worth	June 2018

<i>Structured Matrices in Polynomial System Solving</i> SIAM ALA conference, Hong Kong	May 2018
<i>Solving Nonlinear Eigenvalue Problems using Contour Integration</i> SIAM ALA conference, Hong Kong	May 2018
<i>Polynomial System Solving and Numerical Linear Algebra</i> SIAM AG conference, Atlanta	August 2017
<i>Matrices in Polynomial System Solving</i> Rencontre en Algèbre Linéaire Numérique Amiens-Calais, Amiens	May 2017
<i>Solving Systems of Polynomial Equations</i> ILAS conference, Leuven	July 2016

## STUDENTS

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### (Co-)supervision of PhD students

Leonie Kayser	January 2023 - Present
Barbara Betti (with Marta Panizzut)	October 2022 - Present
Dmitrii Pavlov (with Bernd Sturmfels)	September 2022 - August 2024
Kemal Rose (with Bernd Sturmfels)	October 2021 - February 2024

### (Co-)supervision of Master's theses

<i>Kuramoto varieties</i> , Francesco Mascarin (September 2024)	
<i>Chebyshev varieties</i> , Zaïneb Bel-Afia (April 2023 - September 2023)	
<i>Homotopy Continuation for Tensor Decomposition</i> , Ronald Hauwaerts (September 2019 - June 2020)	
<i>Eigenvalue Methods for Solving Systems of Polynomial Equations</i> , Wieter Jacobs (September 2019 - June 2020)	
<i>Contour Integration Methods for Solving Systems of Polynomial Equations</i> , Sofie Vandemoortele (September 2019 - August 2020)	
<i>Towards a globally convergent iterative method for polynomial system solving</i> , Charlotte Vermeylen (September 2018 - June 2019)	
<i>Solving bivariate polynomial systems via a two-parameter eigenvalue problem</i> , Dries De Samblanx (January 2017 - June 2017)	

## TEACHING

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For more information, see <https://simontelen.webnode.page/teaching/>.

<b>Using Toric Geometry</b> 11 lectures, 2 hours each and 11 exercise sessions, 90 minutes each A course on toric varieties and their applications at MPI MiS Leipzig.	April-June 2024
<b>Positive Toric Geometry</b> 2 lectures, 90 minutes each A minicourse on positive toric varieties at Kobe University.	August 2023
<b>Geometry of Feynman integrals</b> 4 lectures, 90 minutes each A course on Euler/Feynman integrals from an algebraic perspective at MPI MiS Leipzig.	May-June 2023
<b>Introduction to Toric Geometry</b> 13 lectures, 2 hours each An introductory course on toric geometry at MPI MiS Leipzig, Germany.	October 2021 - February 2022
<b>Applications of Algebra in Informatics</b> I gave a lecture on algebraic structures in the context of the course 'Toepassingen van de Algebra in de Informatica' (G0Q59B) at KU Leuven.	November 2018

## ORGANIZATION

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<b>New Perspectives on Discriminants and their Applications</b> SLMath summer school with Eliana Duarte and Serkan Hosten, to be held at MPI MiS, Leipzig	June-July 2025
<b>MEGA (Effective Methods in Algebraic Geometry)</b> Member of the local organizing and executive committee of MEGA 2024, Leipzig	July-August 2024
<b>Combinatorial Algebraic Geometry from Physics</b> Co-organizer of a one-week workshop at MPI MiS, Leipzig	May 2024
<b>Nonlinear Algebra in Particle Physics</b> Minisymposium to be organized with Fatemeh Mohammadi at SIAM AG23, TU Eindhoven	July 2023
<b>A Hypergeometric Day</b> Seminar day organized with Christian Sevenheck at MPI MiS, Leipzig	May 2023
<b>Seminar Day on Algebra, Geometry and Computation</b> Held at CWI, Amsterdam	March 2023
<b>Workshop on Solving Polynomial Equations and Applications</b> Scientific co-organizer and lecturer at CWI Amsterdam	October 2022
<b>Nonlinear algebra in the sciences</b> Minisymposium organized with Paul Breiding at the DMV annual meeting 2022, Berlin	September 2022
<b>Workshop on Software and Applications of Numerical Nonlinear Algebra</b> Scientific co-organizer and lecturer, MPI MiS Leipzig	May-June 2021
<b>New trends in polynomial system solving</b> Minisymposium organized with Maggie Regan at SIAM AG21, Texas A&M (online)	August 2021
<b>Organizer of a reading seminar ‘Intersection Theory’</b> In the context of the research semester ‘Algebraic Geometry’, TU Berlin	fall 2019
<b>Vice president of the SIAM Student Chapter, KU Leuven</b> Main organizer of: <i>Pi-day seminar, March 14, 2019,</i> <i>Seminar on Open Problems in Mathematics, November 26, 2018,</i> <i>Seminar on Mathematical Curiosities, March 14, 2018,</i> <i>Workshop: ‘An Introduction to Data Visualization and TikZ’, October 25, 2017.</i>	September 2017 - September 2019
<b>Organizer of a reading seminar ‘Introduction to Nonlinear Algebra’</b> KU Leuven	spring 2019

## RESEARCH VISITS

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<b>Visiting researcher at Oxford University</b> A research visit with Erik Panzer in Oxford	January 2024
<b>Visiting researcher at IAS Princeton</b> A research visit with Sebastian Mizera and Nima Arkani-Hamed in Princeton	February 2023
<b>Visiting researcher at KU Leuven</b> A research visit with Fatemeh Mohammadi in Leuven	December 2022
<b>Visiting researcher at IAS Princeton</b> A research visit with Sebastian Mizera and Nima Arkani-Hamed in Princeton	November 2021
<b>Visiting researcher at KU Leuven</b> A research visit with Philippe Dreesen and Bart De Moor in Leuven	February 2022

<b>Visiting researcher at CIIRC</b> A research visit with Tomas Pajdla in Prague	March 2019
<b>Visiting researcher at MPI Leipzig</b> A research visit with Bernd Sturmfels in Leipzig	December 2018
<b>Visiting researcher at University of Illinois at Chicago</b> A research visit with Jan Verschelde in Chicago	August 2018
<b>Visiting researcher at Brigham Young University</b> A research visit with Tyler Jarvis in Provo	April 2018
<b>Visiting researcher at INRIA Sophia Antipolis Méditerranée</b> A research visit with Bernard Mourrain in Sophia Antipolis	September 2017

## SERVICE

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**I have refereed manuscripts submitted to the following journals:**

- Linear and Multilinear Algebra
- SIAM Journal on Matrix Analysis and Applications
- Journal of Algebra and its Applications
- Linear Algebra and its Applications
- Numerical Algorithms
- Annales de l'Institut Henri Poincaré D.
- Foundations of Computational Mathematics
- Mathematics
- SIAM Journal on Scientific Computing
- Journal of Algebra
- European Journal of Combinatorics
- Journal of Symbolic Computation

Since March 2023, I am diversity officer of EMYA, the European Mathematical Society Young Academy.

Since June 2023, I am the scientific representative of the Max Planck Institute for Mathematics in the Sciences into the Chemistry, Physics and Technology Section of the Max Planck Society.

## PROGRAMMING LANGUAGES

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Matlab, Julia, LaTeX, Macaulay2: advanced. Maple: intermediate. Python, Fortran: beginner.