

Matthias Pfeifer

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Education

- Since 2022 PhD student in the TopMath – Elite Program of the Technical University of Munich (TUM), Research Topic *Deformations of quotient singularities*
- 2021 - 2024 Master of Science in the TopMath – Elite Program of TUM, Masterthesis *Deformations of Toric Singularities*
- 2017 - 2021 Bachelor of Science in Technical Mathematics at Technical University of Vienna (TU Wien), Bachelorthesis *Endlichdimensionale Schiefkörper (Finite-dimensional skew fields)*

Talks

- 2026 *Deformations of isolated \mathbb{Q} -factorial toric singularities*, Research School on Cox rings and applications
- 2026 *Equivariant Cohomology*, Seminar on Enumerative Geometry, TUM
- 2025 *Deformations of isolated cyclic quotient singularities*, Workshop on Arithmetic and Geometry
- 2025 *Deformations of isolated cyclic quotient singularities*, Research Seminar Algebraic Geometry, TUM
- 2025 *Deformations of toric surface singularities in positive characteristic*, GAeL XXXII
- 2025 *An approach to noncommutative algebraic geometry*, Research Seminar "Algebraic Geometry", TUM
- 2024 *Deforming christmas presents*, TopMath Christmas Party
- 2024 *F-splitting*, Seminar on F-Singularities
- 2023 *Charts and fine log-structures*, Seminar on Log-Geometry

Papers

- 2025 *Deformations of isolated cyclic quotient singularities in arbitrary characteristic*, Preprint (<https://arxiv.org/abs/2511.23382>)

Awards

- 2025 Goldene Kreide (*Golden Chalk*), Teaching Award School of Natural Sciences, TUM
- 2024 Master of Science, Graduated with Distinction
- 2021 Bachelor of Science, Graduated with Distinction
- 2019 Merit Scholarship from TU Wien (WS2018/19 - SS2019)
- 2019 Bachelor of Arts, Graduated with Distinction
- 2018 Early Student Award from the Austrian Mathematical Society
- 2018 Merit Scholarship from TU Wien (WS2017/18 - SS2018)

Teaching

- S 2026 Linear Algebra 2 for Prospective High School Teachers, TUM, Übungsleitung + Tutorial + Central Exercise Class (~ 25 Students)
- S 2026 Linear Algebra for CS, TUM, Tutorial
- W 2025 Calculus 1, TUM, Tutorial + Q&A Session
- S 2025 Linear Algebra, TUM, Tutorial
- W 2024 Linear Algebra for Physics, TUM, Übungsleitung (teaching assistant) + Central Exercise Class (~ 300 Students), teaching award *Goldene Kreide*
- S 2024 Algebraic Geometry, TUM, Übungsleitung + Tutorial
- W 2023 Algebra, TUM, Substitute Lecturer
- W 2023 Linear Algebraic Groups, TUM, Übungsleitung + Tutorial
- S 2023 Linear Algebra 2, TUM, Tutorials + Q&A Session
- W 2022 Linear Algebra, TUM, Q&A Session

Service

- Since 2025 Member of the TUM Graduate Council
- Since 2025 PhD-Representative of the School of Computation, Information and Technology, TUM
- Since 2024 Deputy Gender Equality Officer for the School of Computation, Information and Technology, TUM
- Since 2024 TopMath Speaker

Conferences

- 2025 ICL-TUM Workshop on Arithmetic and Geometry, Speaker
- 2025 GAeL XXXII, Junior Speaker
- 2025 P-adic and Characteristic p Methods in Algebraic Geometry, Participant
- 2024 Arithmetic geometry of K3 surfaces and related areas, Participant
- 2024 EPIGA 2024 conference, Sorbonne Université, Participant

Schools

- 2025 RGAS Summer School on Perfectoid Techniques, Participant
- 2025 Groups and Geometry School, Erdős Center, Participant
- 2024 Fall School on Methods in Mixed Characteristic Geometry, Participant
- 2024 School on Deformation Theory IV, Sapienza University, Participant
- 2024 Non-Archimedean Geometry, Birational Geometry and Resolution of Singularities, School in Heidelberg, Participant