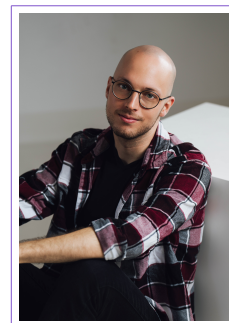


Daniel VITAS

Curriculum Vitae

University of Ljubljana
Institute of Mathematics, Physics, and Mechanics
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Education

- 2023–present **PhD in Mathematics**, *University of Ljubljana, Faculty of Mathematics and Physics, Slovenia*.
Thesis: One-sided Ideal Theory in Hereditary Noetherian Prime Rings
Supervisor: Prof. Daniel Smertnig
- 2022–2023 **PhD in Mathematics (unfinished)**, *University of California, Los Angeles, USA*.
I finished the first year (including the qualifying exams), and then withdrew for personal reasons.
- 2020–2022 **MS in Mathematics**, *University of Ljubljana, Faculty of Mathematics and Physics, Slovenia*.
Thesis: L'vov-Kaplansky Conjecture for Polynomials of Degree Three
Supervisor: Prof. Matej Brešar
GPA: 10.0/10
- 2017–2020 **BS in Mathematics**, *University of Ljubljana, Faculty of Mathematics and Physics, Slovenia*.
Thesis: Images of Noncommutative Polynomials
Supervisor: Prof. Matej Brešar
GPA: 10.0/10

Publications

- 2026 **Daniel Vitas**. Skew Laurent series ring over a Dedekind domain. *Journal of Algebra*, volume 685, pages 313–336, 2026.
- 2026* **Daniel Vitas**. Multiplicative one-sided ideal theory of hereditary Noetherian prime rings. arXiv:2606.09683, 2026*. Submitted.
- 2026* **Daniel Vitas**. A maximal nilpotent linear space containing no matrix of maximal nilindex. Submitted, 2026*.
- 2026 **Daniel Vitas**. The L'vov-Kaplansky conjecture for polynomials of degree three. *Linear Algebra and its Applications*, volume 733, pages 205–232, 2026.
- 2021 **Daniel Vitas**. Multilinear polynomials are surjective on algebras with surjective inner derivations. *Journal of Algebra*, volume 565, pages 255–281, 2021.
- 2021 **Daniel Vitas**. Images of multilinear polynomials in the algebra of finitary matrices contain trace zero matrices. *Linear Algebra and its Applications*, volume 626, pages 221–233, 2021.

Conferences

- 2026 **HLF, Heidelberg**.
- 2026 **GABY, Milano**
Contributed talk: One-Sided Ideal Factorization Theory in Hereditary Noetherian Prime Rings.
- 2026 **AAA & SAL, Ljubljana**
Co-organizer.

- 2026 **CSASC, Plzeň**
Contributed talk: Multiplicative Ideal Factorization Theory of Hereditary Noetherian Prime Rings.
- 2025 **Conference of Slovenian Mathematicians, Koper.**
- 2025 **Conference on Rings and Polynomials, Graz**
Contributed talk: On the Ideal Theory of HNP Rings.
- 2025 **NCRA meeting, Lens**
Contributed talk: Ideal Factorization Theory in HNP Rings.
- 2025 **LAW, Portorož**
Contributed talk: The L'vov-Kaplansky Conjecture.
- 2024 **UMI-AMS meeting, Palermo**
Contributed talk: Skew Mal'cev-Neumann Series Ring Over a Dedekind Domain.
- 2023 **Conference on Rings and Factorizations, Graz.**

Awards

- 2022 **Honorary Certificate for Outstanding Academic Achievements**, awarded by University of Ljubljana.
- 2018–2022 **Dean's award** for outstanding academic performance, awarded by Faculty of Mathematics and Physics, University of Ljubljana.
- 2021 **First prize at International Mathematics Competition.**
- 2020 **Prešern's award of the University of Ljubljana** for exceptional achievements in the fields of science and the arts.
- 2014–2017 **Gold award at the national competition in mathematics.**

Teaching Assistantship

University of Ljubljana

- W 2026* **Commutative Algebra**, Math Master's.
- W 2026* **Algebra 3**, 3rd year Math Undergraduate.
- S 2026 **Didactics of Mathematics**, Pedagogical Math Undergraduate.
- W 2025 **Noncommutative Algebra**, Math Master's.
- W 2025 **Algebra 3**, 3rd year Math Undergraduate.
- W 2025 **Analysis 3**, 2nd year Math and CS Undergraduate.
- S 2025 **Commutative Algebra**, Math Master's.
- W 2024 **Algebra 3**, 3rd year Math Undergraduate.
- W 2024 **Analysis 3**, 2nd year Math and CS Undergraduate.
- S 2024 **Number Theory**, Math Master's.
- W 2023 **Proseminar A**, 1st year Math Undergraduate.
- W 2023 **Analysis 3**, 2nd year Math and CS Undergraduate.

University of California, Los Angeles

- S 2023 **33A: Linear Algebra & Applications.**
- W 2023 **32A: Calculus of Several Variables.**
- F 2022 **31B: Integration & Infinite Series.**

Referees

Prof. Daniel Smertnig

Associate Professor

University of Ljubljana,

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Prof. Matej Brešar

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