

Mikuláš Zindulka

Curriculum Vitae

Contact information

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Personal

Date of birth May 26, 1996
Nationality Czech Republic

Employment

2025–present **University of Hong Kong**
Post-doctoral fellow in the Department of Mathematics
Mentor: Professor B. Kane

Research visit abroad

April–July 2024 **University of Hong Kong**
Research collaboration with Professor B. Kane

Education

Charles University, Prague, Czech Republic
Faculty of Mathematics and Physics
2021–2025 Ph.D., Algebra, number theory, and mathematical logic
2018–2021 Master of Mathematics, Mathematical analysis
2015–2018 Bachelor of Mathematics, General mathematics

Grants

2026–2028 **Czech Science Foundation (GACR)**
Postdoc Individual Fellowship – Outgoing
Applications of modular forms to elliptic curves
Principal investigator
2024–2025 **Charles University Grant Agency**
Additive structure of integral elements in number fields
Principal investigator

Publications

M. Zindulka, *Totally positive elements with m partitions exist in almost all real quadratic fields*, Proc. Edinburgh Math. Soc. **69** (2026), no. 2, 701–734.
O. Chwiedziuk, M. Doležálek, S. Fryšová, E. Pěchoučková, Z. Pezlar, O. Prakash, A. Růžicková, M. Zindulka, *No proper generalized quadratic forms are universal over quadratic fields*, Ramanujan J. **69** (2026), no. 4, Paper No. 92, 10 pp.
O. Chwiedziuk, M. Doležálek, E. Pěchoučková, Z. Pezlar, O. Prakash, G. Romeo, A. Růžicková, M. Zindulka, *Representing rational integers by generalized quadratic forms over quadratic fields*, New York J. Math. **32** (2026), 691–718.
V. Kala, M. Zindulka, *Partitions into powers of an algebraic number*, Ramanujan J. **64** (2024), no. 2, 537–551.
D. Stern, M. Zindulka, *Partitions in real quadratic fields*, Math. Nachr. **298** (2025), no. 2, 548–566.
M. Tinková, E. Waxman, M. Zindulka, *Artin twin primes*, J. Number Theory **245** (2023), 203–232.

Conferences and talks

More than 20 international conferences and seminars (2019–2026), including:

May 2026	28th Automorphic Forms Workshop Kansas State University, Manhattan, Kansas
February 2026	Joint meeting of IMR and IoM University of Hong Kong , Hong Kong
September 2025	26th Central European Number Theory Conference University of Salzburg, Austria
June 2025	33èmes Journées Arithmétiques University of Luxembourg, Esch-sur-Alzette

Teaching experience

2026	Mathematics seminar Undergraduate course at HKU
2020–2025	9 courses at Charles University Linear algebra, calculus, elementary number theory

Certifications

Pedagogical competence course
Charles University, Faculty of Mathematics and Physics
February 13 – May 15, 2025

Bachelor thesis consultant

D. Stern, *Partitions of totally positive elements in real quadratic fields*, 2023.
F. Couf, *Fourier transform on polytopes and tiling with rectangles*, 2023.

Student exchange

March–August 2020	Heidelberg University, Germany Erasmus+ mobility
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Languages

English (fluent), **Czech** (native), **German** (beginner), **Hindi** (beginner)