

INTERESTS

Topology of smooth 4-manifolds and low dimensional topology in general, knot theory, exotic structures on manifolds.

EDUCATION

University of the National Education Comission

PhD in Mathematics. Advisors: Maciej Borodzik & Piotr Pokora

Cracow

2025–current

University of Warsaw

M.S. in Mathematics.

Thesis: *Exotic diffeomorphisms of 4-manifolds*. Advisor: Maciej Borodzik

Warsaw

2023–2025

University of Warsaw

B.S. in Mathematics. Thesis: *Kirby diagrams of gropes*.

Warsaw

2020–2023

CONFERENCES & EVENTS ATTENDED

- (future) Workshop *Scottish Talbot On Algebra and Topology II* Crianlarich, Scotland, 5-9.1.2026
- (future) Workshop *Branched covers* University of Seville, 17-21.11.2025
- Algebraic Topology research seminar University of Warsaw, 15.10.2025
I gave a talk about my Masters's thesis
- Workshop *Mapping class groups of non-simply connected 4-manifolds* University of Glasgow, 1-5.09.2025
I gave a short talk Watanabe's propagators for $(S^1)^4$.
- Research visit MPIM Bonn, 9-18.12.2024
Invited by Aru Ray. I gave talk on my work (Kontsevich integrals) at the students Seminar.
- Summer School in Low Dimensional Topology Institut Fourier, Grenoble, Summer 2024
Three-weeks-long summer school for PhD students. I attended a couple of mini-courses. Topics included classical knot theory, categorification, Heegaard-Floer homology and mapping class groups.
- Knots, Homologies and Physics Simons Semester Warsaw, Spring 2024
In three separated weeks I attended numerous lectures centered around low dimensional manifolds and knot theory.

SCHOLARSHIPS AND AWARDS

- Advanced Master Degree Programme 07.2024–10.2025
A programme organized and funded by the University of Warsaw for Master students who want to work in research early. I got qualified with my Master thesis as my project.
- Rector Scholarship 10.2023–06.2024
For students with top 7% GPA in a year. Practically top 4 in around 60 students with GPA 4.75 (on a 2.0/5.0 scale).

TEACHING

- Additional exercise session before mid-term exam in Topology II (intro to Algebraic Topology) around April 2023
A year after completing Topology II course, I organized an event traditionally called 'douczi' for students taking Topology II at that time, as a volunteer. It involved solving exercises mostly from previous-year mid-term exam focused on Brouwer's Fixed Point Theorem and Seifert-van Kampen Theorem.
- Introductory lecture in homotopy around May 2022
When differential forms and their integration appeared on the Analysis II course, most students were unfamiliar with loop homotopy. As I was taking the Topology II course at that time, I volunteered to give a 90 minutes unofficial lecture about the topic.