Jean-Baptiste Bellynck
Undergraduate student

j.bellynck@campus.lmu.de
https://jeanbellynck.github.io/

Education

Ludwig-Maximilians University Munich · Munich, Germany
Mathematics and Computer Science Teacher Program · 2019 - 2025 *(expected)*
- Thesis Advisor: Prof. Sebastian Hensel
- Subject: Word problem of groups

Osaka University · Osaka, Japan
Research year as an exchange student · 2023 - 2024
- Advisor: Prof. Eiko Kin
- Subject: Train track splitting sequences of pseudo-Anosov homeos

Preprints

1. **Jean-Baptiste Bellynck, Eiko Kin**. Agol cycles of pseudo-Anosov maps on the 2-punctured torus and 5-punctured sphere. Arxiv Link, 2024.

Projects

Graphicayley Webapp
Browser app that draws Cayley graphs from a given presentation. Try it out! 2023 - today

Personal Wiki
Personal database containing around 2000 lecture and conference notes. Look inside! 2021 - today

Teaching & Work experience

Illustrations for Prof. Dr. Kotschick's most recent book
Prof. Dr. Kotschick · Mar. 2025 - today

Tutoring and grading exercises in Algebra and Number Theory
Dr. Ralf Gerkmann · Oct. 2024 - Feb. 2025

Software development
Lösch & Partner GmbH · Mar. 2022 - Jun. 2023

Tutoring in Software development practical
Prof. Dr. Stefan Barth · Oct. 2021 - Feb. 2022

High-school teaching practical training
Oscar Maria Graf Gymnasium Neufahrn, Germany. · Sept. 2020 - Aug. 2021

References

Contact the following people if you need a reference.

Prof. Dr. Sebastian Hensel (hensel@math.lmu.de): If you need a detailed but general report or if you are interested in my academic development.

Prof Dr. Eiko Kin (kin.eiko.celas@osaka-u.ac.jp): If you are interested in how I collaborate with mentors on a common paper.

Dr. Ralf Gerkmann (gerkmann@math.lmu.de): If you are interested in how I teach students.

Prof. Dr. Jonathan Bowden (bowden@math.lmu.de): If you are interested in how I present and prepare for seminars.

Prof. Dr. Dieter Kotschick (dieter@math.lmu.de): If you are interested in how professional work with me feels like.

SKILLS

Languages: German (Fluent), English (Fluent), Japanese (Fluent), French (B1), Polish (B1).
Programming: `Python`, `C++`, `Java`, `MATLAB`.

ATTENDED CONFERENCES

Integral structures in geometry and representation theory
Paderborn University, Germany. Homepage   Sep, 2024

Intelligence of Low-dimensional Topology
Kyoto University, Japan. Homepage   May, 2024

MSJ Spring Meeting
Osaka Metropolitan University, Japan. Homepage   Mar, 2024

The 19th East Asian Conference on Geometric Topology
Kyoto University, Japan. Homepage. The slides of my talk. Feb, 2024

Magnitude
Osaka University, Japan. Homepage   Dec, 2023

4-dimensional topology
Osaka University, Japan. Homepage   Nov, 2023

Topology and Computers
Keio University, Japan. Homepage   Oct, 2023

MASTER LECTURES AND SEMINARS

Lecture: Differentiable Manifolds
Prof. Dr. Sebastian Hensel.   WiSe 2022

Lecture: Riemannian geometry
Prof. Dr. Sebastian Hensel.   SoSe 2023

Lecture: Stability of non-proper functions
Kenta Hayano. Seminar page.   WiSe 2023

Seminar: What is...?
Kento Sakai. Seminar page.   SoSe 2024

Seminar: Hyperbolic geometry and Fuchsian groups
Prof. Dr. Jonathan Bowden, Prof. Dr. Sebastian Hensel. Seminar page.   WiSe 2024

Seminar: Geometry and Dynamics of Homeomorphisms in Dimensions 1 and 2
Prof. Dr. Jonathan Bowden, Prof. Dr. Sebastian Hensel. Seminar page.   WiSe 2024

Seminar: Aspects and Applications of Representation Theory
Prof. Dr. Ulrich Bauer, Prof. Dr. Sebastian Hensel. Seminar page.   WiSe 2024

Bachelor-math, computer science, psychology and teaching lectures have not been listed.