NIKLAS HELLMER

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Dioscuri Centre for Topological Data Analysis \diamond Mathematical Institute Polish Academy of Sciences \diamond ul. Śniadeckich 8, 00-656 Warsaw, Poland

EDUCATION

Polish Academy of Sciences, Warsaw, PL PhD in Mathematics	Oct. 2020 – Sep. 2024
Swansea University, Swansea, UK PhD in Mathematics	Jan. 2020-Sep. 2020
University of Bonn, Bonn, DE Master of Science in Mathematics Bachelor of Science in Mathematics	Oct. 2017 – Sep. 2019 Oct. 2014 – Sep. 2017

AWARDS AND HONORS

PhD Scholarship, Swansea University, 2020.

PhD Scholarship, Doctoral School of Exact and Natural Sciences, Warsaw, 2020

PhD Scholarship, Dioscuri Centre for Topological Data Analysis, Warsaw, 2020.

PUBLICATIONS

Preprints

[1] A. Mahdi, P. Błaszczyk, P. Dłotko, D. Salvi, T.-S. Chan, J. Harvey, D. Gurnari, Y. Wu, A. Farhat, N. Hellmer, A. Zarebski, B. Hogan, and L. Tarassenko, "Oxcovid19 database: A multimodal data repository for better understanding the global impact of covid-19," medRxiv, 2020. DOI: https://doi.org/10.1101/2020.08.18.20177147.

TALKS

New Metrics for Persistence Diagrams. Second Symposium on Machine Learning and Dynamical Systems, online due to COVID-19, Fields Institute, Toronto, Sep 29, 2020.

TEACHING

Teaching Assistant, Analysis I

winter term 2016/17

University of Bonn

Graded homework and held biweekly recitation and problem classes for 20 students.

Teaching Assistant, Analysis II

summer term 2018

University of Bonn

Graded homework and held weekly recitation and problem classes for 20 students.

Student Demonstrator, Matlab (MA-162)

lent term 2020

Swansea University

Graded homework and held weekly Matlab tutorial classes for 80 students.

OTHER QUALIFICATIONS

Languages

English: C2

French: A1

Latin: Latinum
Programming

Python, R, C-like languages, Matlab, LATEX

pandas, scikit, gudhi

OTHER ACTIVITIES AND NON-ACADEMIC POSITIONS

University Politics

Member of the student parliament of the University of Bonn 2016-2018

Member of the student parliament's budget committee 2017-2019

Head of the budget committee 2019

REFERENCES

PawełDłotko

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Last update: October 27, 2020