CurriculumVitæ

Personal Data

Name	Niclas Joshua Popp
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Website	https://niclaspopp.github.io
Date of Birth	17.09.1999, Bad Windsheim

Education

- 2021 now **M.Sc. Mathematics** Technical University of Munich Double Degree, current average grade 1.0
- 2021 now **M.Sc.Eng. Engineering Physics** KTH Royal Insitute of Technology, Stockholm, Double Degree, GPA 5.0/5.0
- 2017 2021 **B.Sc. Mathematics** with minor in Physics at the Technical University of Munich, passed with distinction (1.5)
 - 2019 Exchange semester at the National University of Singapore
- 2014 2017 Junior studies in Mathematics at the Julius Maximilians University Würzburg
- 2009 2017 Abitur at the Georg-Wilhelm-Steller Gymnasium Bad Windsheim, final grade 1.0

Research and Working Experience

- 2020 now Student research assistant at the Institute of Computational Biology at the Helmholtz Research Centre for Environment and Health in Munich
 - 2021 Summer internship in Mathematical Biology at the University of Edinburgh
- 2017 2019 Working student in Data Science at Robert Bosch GmbH

Teaching

KTH Royal Institute of Technology, Stockholm

- 2021 Teaching Assistant (Övningsassistent) for Numerical Analysis for Industrial Economy
- 2022 Teaching Assistant (Övningsassistent) for Numerical Analysis for Computer Science

Technical University of Munich

2020, 2021 Teaching Assistant (Tutor) for Linear Algebra for Computer Science 2020 Teaching Assistant (Tutor) for Analysis for Computer Science

Awards and Scholarships

- 2021 DAAD RISE scholarship of the German Academic Exchange Service
- 2017 now Scholarship of the German National Academic Scholarship Foundation (Studienstiftung des Deutschen Volkes)
 - 2017 Winner of a Hans Riegel Prize in Geophysics
 - 2017 3rd Place at the Youth researches (Jugend forscht) State Competition Bavaria

Projects

Research Projects

- Preprint, Niclas Popp, Marco Stock, Jonathan Fiorentino, Antonio Scialdone In Review "Structural benchmarking for gene regulatory network inference based on single-cell RNA sequencing data"
- Poster, Marco Stock, Niclas Popp, Antonio Scialdone "Gene regulatory network infer-Manuscript ence from scRNA-seq data by incorporating prior knowledge with graph autoencoders", Poster presented at Single Cell Genomics meets Data Science, Munich 2022 and Emerging Concepts in Cell and Developmental Biology, Aarhus 2022
 - Bachelor "Interaction Preserving Discretization Methods and Applications in Single-Cell Thesis RNA Sequencing Data Analysis", published software package: Multivariate-Discretization.jl,, supervised by Prof. Dr. Dr. Fabian Theis, Dr. Antonio Scialdone and Dr. Jonathan Fiorentino
- DAAD RISE "Stochastic gene expression in mammalian cells", supervised by Prof. Dr. Internship Ramon Grima

Course Projects

Facial Expression Recognition Using Topological Data Analysis (SF2956 Topological Data Analysis), A Parallel Implementation of the Spectral Clustering Algorithm (SF2568 Parallel Computations for Large-Scale System), Exploring Neural Ordinary Differential Equations (DD2424 Deep Learning in Data Science)

Programming Skills

Advanced Julia

Good Python, Matlab, R, MPI

Basic C, Java Script

Language Skills

- Native German
 - C2 English
 - B1+ French, Swedish
 - A1 Spanish, Chinese