CurriculumVitæ

Personal Data

Name	Niclas Joshua Popp
Adress	Marktbergelerstraße 10, 91438 Bad Windsheim
Phone	+49 174 4281214
E-Mail	niclas.popp@tum.de
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

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 Jugend forscht Landeswettbewerb Bayern

Projects

Research Projects

Manuscript	Niclas Popp, Jonathan Fiorentino, Antonio Scialdone "*Structural benchmarking for gene regulatory network inference based on single-cell RNA sequencing data*"
Manuscript	Marco Stock, Niclas Popp, Antonio Scialdone "*Gene regulatory network inference from scRNA-seq data by incorporating prior knowledge with graph autoencoders*"
Bachelor Thesis	"*Interaction Preserving Discretization Methods and Applications in Single-Cell RNA Sequencing Data Analysis*", published software package: MultivariateDiscretization.jl[1]„ supervised by Prof. Dr. Dr. Fabian Theis, Dr. Antonio Scialdone and Dr. Jonathan Fiorentino
DAAD RISE Internship	"*Stochastic gene expression in mammalian cells*", supervised by Prof. Dr. 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