

Dr. Christoph Schießl



Personal data

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Data of birth 04.04.1990

Nationality german

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Education

- 09/2013 - 12/2017 **Ph.D., Mathematics,**
ETH Zürich, advisor: Rahul Pandharipande,
Dissertation: Cohomology of configuration spaces
Topics: algebraic topology & algebraic geometry, configuration spaces
extensive computer experiments in Python / Sage .
- 09/2012-08/2013 **Master of science, Mathematics,**
LMU Munich, final grade 1.2 (on a scale 1.0/best - 5.0/worst)
Dissertation: Computing the Brauer groups of quartic del Pezzo surfaces.
- 09/2009-09/2012 **Bachelor of Science, Mathematics,**
LMU Munich, minor subject Computer Science, final grade 1.0 (on a scale 1.0/best - 5.0/worst)
Dissertation: Hasse Principle and Weak Approximation
Stipendiat des Max-Weber-Programms und der Studienstiftung des deutschen Volkes.
- 06/2009 **Abitur/ high school diploma,**
Gymnasium Trostberg, final grade 1.0 final grade 1.0 (on a scale 1.0/best - 6.0/worst) .

Professional experience

- 09/2018-heute **Software Engineer, Heidenhain Numerik AG,**
Research on algorithms for feed control of CNC-machines, Implementation in C++, maintenance of legacy software.
- 05/2018-08/2018 **guest scientist in the research group Single Molecule Microbiology at the Max-Planck-Institute Marburg,**
Development and implementation of software for the analysis of high-resolution fluorescence microscopy, algorithms for single particle tracking of molecules in living cells
Methods: bayesian statistics, Markov chains, graphical models
Used software: C++, Stan, Python, Pandas.
- 09/2013-04/2018 **scientific assistant, ETH Zurich,** *Organization of lectures, teaching of various exercise classes.*
- 09/2010-07/2013 **scientific assistant, LMU Munich,** *Organization of lectures, teaching of various exercise classes.*

Programming skills

Long experience **C++**, **Python**
CAS like **Matlab**, **Magma** and **Sage**, **Latex**
git, **bash**, **Linux**

Occasional use **SQL**, **R**, **stan**

Language skills

German native language
English fluent

Publications

- 01/2018 **Configuration spaces of $C - k$** ,
Preprint, arxiv.org/abs/1801.09327.
- 01/2018 **Configurations of points with sum 0**,
Preprint, arxiv.org/abs/1801.05036.
- 01/2018 **Integral cohomology of configuration spaces of the sphere**,
Homology, Homotopy and Applications, 21 (1).
- 02/2016 **Betti numbers of unordered configuration spaces of the torus**,
Preprint, arxiv.org/abs/1602.04748.

Scientific talks

- 07/2017 **Cohomology of configuration spaces of the sphere**,
Algebraic geometry and moduli seminar, ETH Zürich.
- 07/2017 **Betti numbers of configuration spaces**,
Oberseminar Kombinatorik, Universität Leipzig.
- 08/2016 **Betti numbers of configuration spaces**,
Pisa-Hokkaido Summer School, Centro de Giorgi, Pisa.
- 04/2016 **Betti numbers of configuration spaces**,
Algebraic geometry and moduli seminar, ETH Zürich.
- 09/2014 **Asymptotic behavior of Gromov-Witten invariants**,
Algebraic geometry and moduli seminar, ETH Zürich.