

LUCAS PORTH

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RESEARCH INTEREST

Constraining cosmological parameters and testing theories via probes of Weak Gravitational Lensing and Large-Scale-Structure. I am interested in the theoretical, statistical and Bayesian perspective of this challenge.

EDUCATION

University of Sussex, Brighton *since September 2017*
PhD candidate in Physics
Thesis topic: Combining cosmic shear and large-scale structure data to constrain the acceleration of the Universe (advisors: R. E. Smith, J. Loveday)

Ludwig-Maximilians-Universität München, Munich *July 2017*
M.Sc. in Physics
Thesis: Nonlinear structure formation and the Halo Model (advisor: J. Weller)
Overall Grade: 1.3 (GPA 3.7)

Ludwig-Maximilians-Universität München, Munich *July 2014*
B.Sc. in Physics and Astrophysics
Thesis: The Kerr-Metric: A comprehensive analysis (advisor: H. Lesch)
Overall Grade: 1.3 (GPA 3.7)

Gymnasium Gröbenzell, Gröbenzell *July 2011*
German Abitur (IB equivalent)
Overall Grade: 1.3 (A)

TALKS AND POSTER PRESENTATIONS

| | | |
|----------------------------------|---------|---|
| Euclid Weak Lensing | | |
| Working Group | 11/2020 | Talk on Fast Estimation of Aperture Mass Statistics |
| University of Sussex | 11/2020 | Talk on Fast Estimation of Aperture Mass Statistics |
| South Coast Cosmology | 10/2020 | Talk on Fast Estimation of Aperture Mass Statistics |
| University of Sussex | 02/2020 | Talk on Bayesian Mass Reconstruction |
| University College London | 07/2018 | Poster Presentation on Weak Gravitational Lensing |
| University of Sussex | 05/2018 | Talk on Weak Gravitational Lensing |

SELECTED CONFERENCES/METTINGS ATTENDED

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|------------------------------------|------|---|
| University of Portsmouth | 2020 | South Coast Cosmology |
| University Of Oxford | 2018 | Statistical Challenges for Large-Scale Structure in the era of LSST |
| University of Valencia | 2018 | Statistical Challenges in 21st Century Cosmology |
| Royal Observatory Edinburgh | 2018 | LSST sprint week |

TEACHING EXPERIENCE

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| AT work at Sussex | 2017/2018 | Thermal and Statistical Physics |
| | 2018/2019 | Properties of Matter |
| | 2018/2019 | Our Place in the Universe |
| | 2019/2020 | Mathematical Methods 3 |
| Private Tutoring | 2015-2017 | For undergraduate students in Physics and Mathematics degrees |
| Commercial Tutoring | 2015-2017 | Private tutoring and workshops for intermediate sized groups (Company: Lernerfolg3) |

SKILLS

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| Languages | German | Mother Tongue |
| | English | Fluent |
| | Spanish | Basic conversation |
| IT & Programming | Python | Intermediate - advanced usage |
| | C/C++ | Intermediate usage |
| | Latex | Intermediate usage |
| | Shell scripting | Basic - intermediate usage |
| | HPC | Basic - intermediate usage |
| | SQL | Basic usage |
| | Git | Basic usage |