

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)

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/MEETINGS ATTENDED

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

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

Languages

German
English
Spanish

Mother Tounge
Fluent
Basic conversation

IT & Programming

Python
C/C++
Latex
Shell scripting
HPC
SQL
Git

Intermediate - advanced usage
Intermediate usage
Intermediate usage
Basic - intermediate usage
Basic - intermediate usage
Basic usage
Basic usage