CURRICULUM VITAE

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Ludwig-Maximilians University (LMU) Munich, Faculty of Physics Universitäts-Sternwarte, Scheinerstr. 1, 81679 München, Germany

EDUCATION AND ACADEMIC APPOINTMENTS

| LMU Munich, Physicist, faculty member (Akademischer Rat auf Lebenszeit) | since 2022 |
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| LMU Munich, Research scientist (Akademischer Rat auf Zeit) | 2018 — 2022 |
| Argonne National Laboratory, Postdoctoral researcher KICP University of Chicago, Associate fellow | 2016 & 2017 |
| LMU Munich, Postdoctoral researcher | 2015 |
| LMU Munich , PhD in Astrophysics, <i>magna cum laude</i> Thesis: <i>Galaxy Cluster Cosmology</i> , Advisor: Prof. Dr. J. Mohr | 2011 — 2015 |
| LMU Munich , Diploma in Physics, <i>with highest honors</i> Thesis: <i>The Dark Higgs Portal</i> , Advisor: Prof. Dr. S. Hofmann | 2005 — 2011 |
| ENSPG Grenoble (ERASMUS exchange student) | 2007/2008 |

RESEARCH INTERESTS

- Analysis of cosmological survey data (South Pole Telescope, Dark Energy Survey)
- Preparation and forecasting for upcoming surveys (eROSITA, Rubin/LSST, Euclid, CMB-S4)
- · Galaxy cluster cosmology and astrophysics
- Structure formation and numerical cosmological *N*-body and hydrodynamic simulations
- Statistics and Machine Learning: Bayesian parameter inference, Gaussian process interpolation for emulators, neural networks for source finding

MAJOR COLLABORATIONS

| Euclid consortium Next-generation optical/NIR space-based cosmological survey | since 2020 |
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| CMB-S4 collaboration Next-generation millimeter-wave cosmological survey | since 2016 |
| Vera C. Rubin/LSST Dark Energy Science Collaboration (DESC) Next-generation optical cosmological survey | since 2016 |
| Dark Energy Survey collaboration State-of-the-art optical cosmological survey | since 2013 |
| South Pole Telescope collaboration State-of-the-art millimeter-wave cosmological survey | since 2011 |
| eROSITA DE consortium Leading X-ray cosmological survey (early data analysis) | 2012 — 2015; 2018 — 2022 |

MANAGEMENT AND LEADERSHIP ACTIVITIES

Co-convener of the DES Clusters working group (Dark Energy Survey)

since 2020

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| Diversity, Equity, Inclusion committee (Dark Energy Survey) | 2021 — 2023 |
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| Co-lead of the DES cluster cosmology analysis team (Dark Energy Survey) | 2019 & 2020 |
| Co-lead of the DESxCMB cluster analysis team (Dark Energy Survey) | 2019 — 2021 |
| OTHER ACTIVITIES | |
| Lead organizer for international workshop at MIAPbP (Garching, Germany) https://www.munich-iapp.de/cosmology22 | 2022 |
| ORIGINS—Cluster of Excellence https://www.origins-cluster.de/en/ Large-Scale Structure, Dark Energy, Dark Matter | PI since 2018 |
| Part of OC of Munich-area Code Coffee Sessions | 2019 |
| Part of OC of Argonne HEP Young Scientist Symposium Series | 2017 |
| Journal Referee (ApJ, A&A, JCAP, MNRAS) | since 2015 |
| TALKS AND PRESENTATIONS | |
| Invited Talks: Conferences & Colloquia | |
| Pascal Institute of the Paris-Saclay University, France AstroParticle Symposium 2022 | 2022 |
| Flatiron Institute, New York City, USA Sunyaev-Zel'dovich Science in the 2020s: Connecting Theory, Simulations, and | 2022 Observations |
| ESA (ESAC) Madrid, Spain A Multi-Wavelength View of Galaxy Clusters | 2021 |
| LSST-Athena synergies workshop | 2021 |
| Trieste, Italy Dissecting Cluster Cosmology (postponed due to Covid-19 pandemic) | 2020 |
| Sexten CfA, Italy Hot Topics in Astrophysics II (cancelled due to Covid-19 pandemic) | 2020 |
| University Observatory Munich (USM/LMU), Germany Institute Colloquium | 2020 |
| APC Paris, France Towards Coordination of the European CMB program | 2019 |
| Sexten CfA, Italy Tracing Cosmic Evolution with Galaxy Clusters | 2019 |
| University of Sussex, UK Astronomy Colloquium | 2019 |
| ICTS Bangalore, India Cosmology — The Next Decade | 2019 |
| Jena University, Germany German Long Wavelength Consortium Annual Assembly | 2018 |
| Kavli Institute for Cosmology, Cambridge, UK Consistency of cosmological datasets: Evidence for new physics? | 2018 |
| Max Planck Institute for Astrophysics, Germany Return of de Sitter II | 2013 |

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Select Invited Talks: Seminars

Astronomy Conversations

Inter-institutional Laboratory of e-Astronomy (LIneA), Rio de Janeiro, Brazil 2022 Webinar Institut d'Astrophysique Spatiale, Orsay, France 2022 Cosmo-seminar University of Trieste, Italy 2020 Astrophysics Seminar 2020 MIT, Cambridge, USA Astronomy Lunch talk University of Michigan, Ann Arbor, USA 2017 Astronomy Seminar CfA Harvard, Cambridge, USA 2016 Galaxies & Cosmology Seminar 2016 Fermilab, Batavia, USA Astrophysics Seminar Max Planck Institute for Astrophysics (MPA), Garching, Germany 2015 High Energy seminar Max Planck Institute for Extraterrestrial Physics (MPE), Garching, Germany 2015 Optical and Interpretative Astronomy (OPINAS) seminar **Select Contributed Talks: Conferences and Workshops** Neutrino Cosmology Day, Garching, Germany 2022 mm Universe @ NIKA2, Rome, Italy (remote) 2021 KICC 10th Anniversary Symposium, Cambridge, UK 2019 CMB in Germany, MPA Garching, Germany 2018 Clusters 2017, Santander, Spain 2017 COSMO-16, Ann Arbor, USA 2016 SnowCluster, Snowbird Utah, USA 2015 Cosmology with galaxy clusters in the XXI century, Madrid, Spain 2014 **PUBLIC OUTREACH** Adler Planetarium, Chicago, www.adlerplanetarium.org throughout 2017