

# Fabian Schmidt

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## Professional Experience

**Max-Planck-Institut für Astrophysik** 10/2013 – present

*Forschungsgruppenleiter (W2) (tenured research group leader), 4/2017 – present*

*Wissenschaftlicher Mitarbeiter (tenure-track scientific staff), 10/2013 – 3/2017*

**Princeton University, Department of Astrophysical Sciences** 09/2012 – 09/2013

*Einstein Fellow* (sponsor: David Spergel)

**California Institute of Technology (Caltech)** 09/2009 – 08/2012

*Moore Fellow in Theoretical Cosmology* (advisor: Marc Kamionkowski)

## Education

**Ph.D. in Astronomy & Astrophysics** 08/2009

University of Chicago

*Advisors:* Scott Dodelson, Wayne Hu

*Thesis:* Cosmological N-body Simulations of DGP braneworld gravity

**Postgraduate studies** 03 – 07/2005

ERASMUS exchange student, University of Leeds, UK

*Advisor:* Johannes Knapp / Pierre Auger group

**Diplom Physik** 03/2005

Humboldt-Universität zu Berlin, Germany

*Advisor:* Thomas Lohse

*Grade:* 1.0, mit Auszeichnung (with distinction)

*Thesis:* Search for Pulsed TeV Gamma-Ray Emission from Pulsars with H.E.S.S.

## Publication statistics

140 papers published in refereed journals; 35 as first author; 14 as single author

$h$ -index: 61; total citations  $\sim 14,500$  (INSPIRE)

## Books

Scott Dodelson, Fabian Schmidt: *Modern Cosmology*, Second Edition, Academic Press, Cambridge, USA (2020)

## Teaching Experience

Lecturer at ICTP-Trieste/ICTP-SAIFR Cosmology School, remote, 2021

Lecturer at Summer School on Large-Scale Structure, Berlin, 2018

MPA Staff Lectures, Max-Planck-Institut für Astrophysik, 2013

Lecturer at Theoretical Advanced Study Institute (TASI), University of Colorado, 2012

Teaching Assistant, University of Chicago, Fall 2005 – Spring 2006, Spring 2007

## Student mentoring

- 2021 – Beatriz Tucci Schiewaldt, PhD student at International Max Planck Research School on Astrophysics (IMPRS), München / Garching
- 2021 – Ivana Babić, PhD student at LMU
- 2020 – Andrija Kostić, PhD student at International Max Planck Research School on Astrophysics (IMPRS), München / Garching
- 2016 – 2020 Minh Nguyen, PhD student at IMPRS (now postdoc at University of Michigan)
- 2014 – 2019 Titouan Lazeyras, PhD student at IMPRS (now postdoc at University of Milan-Bicocca)
- 2014 – 2019 Hiu-Yan Ip, PhD student at IMPRS, München / Garching (now postdoc at Cambridge University)
- 2012 Ryan Keeley, Summer Undergraduate Research Fellowship (SURF), Caltech (now postdoc at Korea Astronomy and Space Science Institute (KASI))
- 2011 Francis-Yan Cyr-Racine, visiting student at Caltech from University of British Columbia (now assistant professor at the University of New Mexico)

## Postdoc mentoring

- 2021 – Julia Stadler
- 2018 – Linda Blot
- 2017 – 2020 Giovanni Cabass (now at Institute for Advanced Study, Princeton)
- 2016 – 2018 Franz Elsner (now at RES MECHANICA)
- 2015 – 2020 Alexandre Barreira (now ORIGINS Excellence Cluster Fellow, LMU/TUM)

## Grants and Awards

- Co-PI, Excellence Cluster “Origins,” LMU/TUM/others (co-lead of “Connector: Dark Energy”), 2019 – 2025
- Elected member, Junge Akademie (young academy of science and humanities), 2016 – 2021
- European Research Council (ERC) Starting Grant “GrInflaGal”: **1,350,000 €**, 2016 – 2021
- Marie Curie Career Integration Grant “FundPhysicsAndLSS”: **100,000 €**, 2013 – 2017
- Einstein Fellowship, awarded by Chandra X-Ray Science Center, NASA, 2012 – 2015
- Lise-Meitner-Preis, Humboldt-Universität zu Berlin, 2005
- Physik-Studienpreis, Physikalische Gesellschaft zu Berlin, 2005

## Major collaborations

- 2014 – EUCLID consortium
- 2013 – Baryon Oscillations Spectroscopic Survey (BOSS),  
Prime Focus Spectrograph (PFS) Survey
- 2010 – 2012 Member of Cosmic Evolution Survey (COSMOS) team
- 2005 – 2009 Pierre Auger Collaboration  
Ultra High Energy Cosmic Ray Observatory located in Argentina
- 2004 – 2005 High Energy Stereoscopic System (H.E.S.S.) collaboration  
Very High Energy Gamma-Ray Observatory located in Namibia

## Service

- 2020 – Scientific staff representative at the Chemistry, Physics, and Technology Section of the Max Planck Society
- 2017 – 2021 Betriebsratsvorsitzender (chair of works council) at MPA
- 2014 – Member of Betriebsrat (works council) at MPA

## Professional Societies

Member, Deutsche Physikalische Gesellschaft (German Physical Society)

Full Member, American Astronomical Society (until 2014)

Member, American Physical Society (until 2014)

## Refereeing

The Astrophysical Journal, Astronomy & Astrophysics, MNRAS, Astroparticle Physics, JCAP, Physical Review D, Physical Review Letters, Physics Letters B, General Relativity and Gravitation

## Miscellaneous

### Computer Skills

C/C++, Python, Fortran, Mathematica, ROOT, Perl, Linux, L<sup>A</sup>T<sub>E</sub>X

### Languages

German: native speaker

English: native speaker

Last updated: August 3, 2023