

## CONTACT INFORMATION

Max Planck Institute for Astronomy  
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## EDUCATION

Aug 2012 – May 2013/ **Ph.D. in Astronomy and Astrophysics, 18.08.2018**  
Aug 2014 – Aug 2018 Steward Observatory, The University of Arizona, AZ, USA  
Supervisor: Xiaohui Fan  
Oct 2011 – July 2012/ **M.Sc., Physics, 01.09.2014 (grade: 1.0)**  
Oct 2013 – Sep 2014 Christian-Albrechts-Universität zu Kiel, Kiel, Germany  
Supervisor: Wolfgang J. Duschl  
Oct 2008 – Oct 2011 **B.Sc., Physics, 19.10.2011 (grade: 1.7)**  
Christian-Albrechts-Universität, Kiel, Germany

## PROFESSIONAL EXPERIENCE

Oct 2018 – present **Postdoctoral Researcher**  
Max Planck Institute for Astronomy, Heidelberg, Germany  
Aug 2012 – Aug 2018 **Graduate research and teaching assistant**  
Steward Observatory, University of Arizona, USA

## REFEREED JOURNAL PUBLICATIONS (ATTACHED FILE, FIRST PUBLICATION IN 2015)

First Author Publications Eight papers.  
Co-Author Publications Fourteen papers.  
Total publications (14.01.2020) Twenty-two.

## RESEARCH GRANTS

**HST, Cycle 23, 2015, (as science PI - \$149,266 )** *Constraining the merger pair fraction of  $\sim 1000$  quasars with a new catalog of PSF subtracted images*, AR Proposal 14312

## OTHER GRANTS

**Small Matching Grant (\$900)**, Theoretical Astrophysics Program, University of Arizona

## HONORS AND AWARDS

2019 Best Poster Prize (IAU Symposium 352, Portugal, June 2019)  
2012–2013 **Fulbright Scholarship**  
The German-American Fulbright Commission  
2011 **Annual Award for excellent academic achievements and commitment**  
Association for the support of the Faculty of Mathematics and Natural Sciences,  
Christian-Albrechts-Universität zu Kiel  
2008–2014 **Student Scholarship**  
German Academic Scholarship Foundation

## SUPERVISION AND TEACHING EXPERIENCE

- July 2019 – Sept 2019 Co-supervision of a summer student: Zhang-Liang Xie  
Max Planck Institute for Astronomy, Heidelberg, Germany
- Oct 2018 – July 2019 Co-supervision of a bachelor thesis project, student: Lukas Wenzl  
Max Planck Institute for Astronomy, Heidelberg, Germany
- Feb 2018 – May 2018 Co-supervision of an undergraduate project, student: Lukas Wenzl  
Steward Observatory, University of Arizona, USA
- Aug 2016 – Dec 2016 Teaching Assistant, Astronomy 203 - Stars  
Steward Observatory, University of Arizona, USA
- Aug 2015 – Dec 2015 Teaching Assistant, Astronomy 170B1 - The Physical Universe  
Steward Observatory, University of Arizona, USA

## OBSERVATIONAL EXPERIENCE

- Principal Investigator of accepted proposals for VATT (50 nights), MMT (6 nights), SOAR (14 nights), Gemini-North (15.7 hours), LBT (21.5 hours), NOEMA (54 hours), HST (archival).
- Co-Investigator of accepted proposals for ALMA, NOEMA, MMT, Magellan, LBT, VLT-XSHOOTER, Gemini-North.
- On-site/Remote observational experience at VATT/VattSpec (50 nights), Magellan/FIRE (2 nights), MMT/RedChannel (10 nights), SOAR/Goodman HTS (14 nights), LBT (13.5 nights).

## CONFERENCES AND TALKS

### Invited Talks

- 2020 **The X-SHOOTER/ALMA sample and the evolution of reionization-era quasars**  
Early Universe/Reionization Era Conversations at Arizona (EURECA seminar), Tucson, Arizona, USA
- 2018 **AGN Selection Opportunities and Challenges with the LSST**  
LSST2018 Project and Community Workshop, August 2018, Tucson, Arizona, USA
- 2016 **Asteroseismic Constraints on the Evolutionary Models of Hot Subdwarfs**  
Seismology of the Sun and the Distant Stars, July 2016, Angra do Heroísmo, Terceira-Asçores, Portugal

### Contributed Conference Talks

- 2020 **First Results of the X-SHOOTER/ALMA Sample of Quasars in the Epoch of Reionization**  
Steves' Summer All Zoom Epoch of Reionization Astronomy Conference, July 2020
- 2019 **The Extremely Luminous Quasar Surveys and the Quasar Luminosity Function at Cosmic Noon**  
Cosmic Evolution of Quasars: from the First Light to Local Relics, October 2019, KIAA-PKU, Beijing, China
- 2018 **The Extremely Luminous Quasar Survey (ELQS) in SDSS and the high-z bright-end Quasar Luminosity Function**  
PhD Talk, American Astronomical Society, AAS Meeting #231, January 2018
- 2017 **The Extremely Luminous Quasar Survey (ELQS) in SDSS**  
Annual Meeting of the Astronomische Gesellschaft 2017, September 2017, Georg-August-Universität Göttingen, Germany

**Contributed Conference Talks (cont.)**

- 2015 **MESA Stellar Evolution Models of sdB Stars**  
Seventh Meeting on Hot Subdwarf Stars and Related Objects, July 2015, University of Oxford, United Kingdom
- 2013 **Exploring stellar evolution models of sdB stars using MESA with convective overshoot**  
Sixth Meeting on Hot Subdwarf Stars and Related Objects, May 2013, The University of Arizona, USA

**Contributed Poster Presentations**

- 2019 **The Extremely Luminous Quasar Surveys and the Quasar Luminosity Function at Cosmic Noon**  
IAU Symposium 352: Uncovering early galaxy evolution in the ALMA and JWST era, June 2019, Viana do Castelo, Portugal
- 2018 **The Extremely Luminous Quasar Survey (ELQS) and the Bright-End Quasar Luminosity Function at  $z=2.8-4.5$**   
Massive black holes in evolving galaxies: from quasars to quiescence, June 2018, Institut d'astrophysique de Paris, Paris, France
- 2016 **Stellar and Black Hole Mass Densities as Empirical Tracers of Co-Evolution Show Lock-Step Growth since  $z \sim 3$**   
AGN: What's in a name?, June 2016, ESO Headquarters, Garching, Germany

**Other Institutional Talks**

- |            |                             |  |
|------------|-----------------------------|--|
| 04.11.2020 | Extragalactic group meeting | <b>The X-SHOOTER/ALMA sample and the evolution of reionization-era quasars</b><br>Institute of Astronomy, Cambridge, United Kingdom (virtual talk)   |
| 15.11.2019 | NOAO Flash-Talk             | <b>The Extremely Luminous Quasar Surveys and the Bright-End Quasar Luminosity Function at Cosmic Noon</b><br>National Optical Astronomy Observatory, Tucson, Arizona, USA                  |
| 16.05.2019 | ESO AGN Club                | <b>The Extremely Luminous Quasar Surveys</b><br>European Southern Observatory, Garching, Germany   |
| 29.11.2018 | Galaxy Coffee               | <b>The Extremely Luminous Quasar Survey and the Quasar Luminosity Function</b><br>Max Planck Institute for Astronomy, Heidelberg, Germany  |
| 25.05.2018 | NOAO Flash-Talk             | <b>The Extremely Luminous Quasar Survey (ELQS) and the Bright-End Quasar Luminosity Function at <math>z=2.8-4.5</math></b><br>National Optical Astronomy Observatory, Tucson, Arizona, USA |
| 28.06.2017 | Special Seminar             | <b>The Extremely Luminous Quasar Survey (ELQS)</b><br>Leibniz-Institut for Astrophysics, Potsdam, Germany  |
| 22.06.2017 | Cake Talk                   | <b>The Extremely Luminous Quasar Survey (ELQS)</b><br>DARK, Niels Bohr Institute, University of Copenhagen, Denmark  |

**COMMUNITY ACTIVITIES****Organization**

- SMBH splinter session at the German Astronomical Society meeting (Lead-organizer), 2020

**Service**

- Seminar organizer (Galaxy coffee, MPIA) 2020–present
- Postdoc representative (MPIA) 2020–present

- Time allocation committee (MPIA) 2019–present
- Ph.D. application committee (IMPRS-HD) 2019

### **Outreach**

- 2017 Public Talk at the “Astronomy on Tap Series”, Borderlands Brewery, Tucson
- 2017 Invited Article in the German on-line magazine “Krautreporter”
- 2017 Invited talk about Black Holes to 7th grade students, Desert Sky Middle School, Tucson
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### **PROFESSIONAL MEMBERSHIPS**

- LSST AGN Science Collaboration
- Deutsche Physikalische Gesellschaft (German Physical Society)
- Astronomische Gesellschaft (German Astronomical Society)