

CONTACT INFORMATION

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EDUCATION

- 2018** **Ph.D., Astronomy and Astrophysics (GPA: 4.0, 18.08.2018)**
Steward Observatory, The University of Arizona, Arizona, AZ, USA
Thesis title: "The Formation and Evolution of Supermassive Black Holes: The Extremely Luminous Quasar Survey"
Advisor: Dr. Xiaohui Fan
- 2014** **M.Sc., Physics (Grade: 1.0, 01.09.2014)**
Christian-Albrechts-Universität zu Kiel, Kiel, Germany
Thesis title: "Evolution of Supermassive Black Holes and their host galaxies"
Advisor: Dr. Xiaohui Fan, Prof. Dr. Wolfgang J. Duschl
- 2011** **B.Sc., Physics (Grade: 1.7, 19.10.2011)**
Christian-Albrechts-Universität zu Kiel, Kiel, Germany
Thesis title: "Temporal evolution of self-gravitating accretion discs: self-similar solutions?"
Advisor: Prof. Dr. Wolfgang J. Duschl

PROFESSIONAL APPOINTMENTS

- since **2021** **Postdoctoral Researcher** in the group of Dr. Joseph Hennawi
 Leiden University, Leiden, The Netherlands
- 2018 — 2021** **Postdoctoral Researcher** in the groups of Dr. Eduardo Bañados and Dr. Fabian Walter
 Max Planck Institute for Astronomy, Heidelberg, Germany
- 2012 — 2018** **Graduate research and teaching assistant**
 Steward Observatory, University of Arizona, USA

PUBLICATIONS

28 refereed publications since 2015, with a total of > 800 citations and an h-index of 16.
 (8 as first author, 1 as second author lead by an advised student)
 A complete publication list is available on [NASA/ADS](#).

AWARDS, HONORS AND SCHOLARSHIPS

- 2019** **Best Poster Prize**
 IAU Symposium 352, Portugal, June 2019
- 2012** **Fulbright Scholarship, 2012—2013**
 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** **Student Scholarship, 2008—2014**
 German Academic Scholarship Foundation (Studienstiftung des deutschen Volkes)

TALKS

Invited talks and colloquia

- 2022** **Königstuhl Colloquium**, Jan. 2022, Heidelberg, Germany
 "The Rise and Fall of Quasars - The evolution of quasars across cosmic time"
- 2020** **Early Universe/Reionization Era Conversations at Arizona**, Sep. 2020 Tucson, Arizona, USA
 "The X-SHOOTER/ALMA sample and the evolution of reionization-era quasars"

- 2018 **LSST-2018 Project and Community Workshop**, Aug. 2018, Tucson, Arizona, USA
"AGN Selection Opportunities and Challenges with the LSST"
- 2016 **Seismology of the Sun and the Distant Stars**, Jul. 2016, Angra do Heroísmo, Portugal
"Asteroseismic Constraints on the Evolutionary Models of Hot Subdwarfs"

Seminar talks and conference contributions

- 2022 **Quasars and Galaxies through Cosmic Time**, virtual conference, Jan. 2022
"Insights into quasar evolution in the first two billion years after the Big Bang"
- 2021 **MPIA Galaxy Coffee**, Feb. 2021, Max Planck Institute for Astronomy, Heidelberg, Germany
"The X-SHOOTER/ALMA sample and the evolution of reionization-era quasars"
- 2020 **Extragalactic group seminar**, Nov. 2020, Institute of Astronomy, Cambridge, UK
"The X-SHOOTER/ALMA sample and the evolution of reionization-era quasars"
- 2020 **Summer All Zoom Epoch of Reionization Astronomy Conference**, virtual conference, Jul. 2020
"First Results of the X-SHOOTER/ALMA Sample of Quasars in the Epoch of Reionization"
- 2019 **NOIRLab FLASH Talk**, Nov. 2019, NSF's NOIRLab, Tucson, Arizona, USA
"The Extremely Luminous Quasar Surveys and the Bright-End Quasar Luminosity Function at Cosmic Noon"
- 2019 **Cosmic Evolution of Quasars: from the First Light to Local Relics**, Oct. 2019, KIAA-PKU, China
"The Extremely Luminous Quasar Surveys and the Quasar Luminosity Function at Cosmic Noon"
- 2019 **ESO AGN Club**, May 2019, European Southern Observatory, Garching, Germany
"The Extremely Luminous Quasar Surveys"
- 2018 **MPIA Galaxy Coffe**, Nov. 2018, Max Planck Institute for Astronomy, Heidelberg, Germany
"The Extremely Luminous Quasar Survey and the Quasar Luminosity Function"
- 2018 **NOAO FLASH Talk**, National Optical Astronomy Observatory, Tucson, Arizona, USA
"The Extremely Luminous Quasar Survey (ELQS) and the Bright-End Quasar Luminosity Function at $z=2.84.5$ "
- 2018 **AAS Meeting #231, PhD Talk**, Jan. 2018, Washington D.C., USA
"The Extremely Luminous Quasar Survey (ELQS) and the high- z bright-end Quasar Luminosity Function"
- 2017 **Annual Meeting of the Astronomische Gesellschaft**, Sep. 2017, Göttingen, Germany
"The Extremely Luminous Quasar Survey (ELQS) in SDSS"
- 2017 **Group seminar**, Jun. 2017, Leibniz-Institut for Astrophysics, Potsdam, Germany
"The Extremely Luminous Quasar Survey (ELQS)"
- 2017 **Cake Talk**, Jun. 2017, DARK, Niels Bohr Institute, University of Copenhagen, Denmark
"The Extremely Luminous Quasar Survey (ELQS)"
- 2015 **7th Meeting on Hot Subdwarf Stars and Related Objects**, Jul. 2016, Oxford, UK
"MESA Stellar Evolution Models of sdB Stars"
- 2013 **6th Meeting on Hot Subdwarf Stars and Related Objects**, May 2013, Arizona, USA
"Exploring stellar evolution models of sdB stars using MESA with convective overshoot"

APPROVED TELESCOPE PROPOSALS

Proposals as Principal Investigator

- 2021 **IRAM/NOEMA** (13 h)
"NOEMA's unobscured view on the host galaxies of a $z \sim 3.3$ binary quasar"
- 2020 **IRAM/NOEMA** (50 h)
"Unveiling the host galaxies of the most luminous quasars at $z \sim 3.5$ "
- 2019 **IRAM/NOEMA** (4 h)
"Unveiling the host galaxy of an ultra-luminous super-Eddington quasar at $z = 3.7$ "
- 2018 – 2020 **LBT/LUCI** (14 h)
"Weighing the most massive accreting black holes at Cosmic Noon"
- 2018 – 2020 **Gemini/GNIRS** (15 h)
"Weighing the most massive accreting black holes at cosmic noon"
- 2017 – 2018 **Southern Astrophysical Research Telescope (SOAR)** (14 nights), CTIO

- 2018 "The Southern Extremely Luminous Quasar Survey (ELQS) at $z \approx 3 - 5$ "
Vatican Advanced Technology Telescope/MMT (7/1 nights), University of Arizona
 "The Extremely Luminous Quasar Survey in PanSTARRS 1"
- 2014 — 2017 **Vatican Advanced Technology Telescope/MMT** (43/5 nights), University of Arizona
 "The Extremely Luminous quasar Survey"
- 2015 **HST, Cycle 23**, Archival Proposal 14312 (\$149,266 - science PI)
 "Constraining the merger pair fraction of ~ 1000 quasars with a new catalog of PSF subtracted images"

Selected proposals as Co-Investigator

- 2021 **JWST/NIRCam** (PI: Wang, 61 h, GO2078)
 "A Spectroscopic survey of biased halos In the Reionization Era (ASPIRE): A JWST Quasar Legacy Survey"
- 2021 **JWST/NIRSpec, NIRCam, MIRI, NIRISS** (PI: Fan, 66 h, GO1764)
 "A Comprehensive JWST View of the Most Distant Quasars Deep Into the Epoch of Reionization"
- 2021 **JWST/NIRSpec** (PI: Decarli, 8 h, GO 1554)
 "Nebular line diagnostics in a merger at cosmic dawn"
- 2021 **JWST/NIRSpec, NIRCam** (PI: Onoue, 50 h, GO1967)
 "A Complete Census of Supermassive Black Holes and Host Galaxies at $z=6$ "

OBSERVATION EXPERIENCE

On-site/Remote observational experience at VATT (VattSpec, 50 nights), Magellan (FIRE, 2 nights), MMT (RedChannel, 10 nights), SOAR (Goodman HTS, 14 nights), LBT (LUCI/MODS, 16 nights), Keck (LRIS, 3 nights)

STUDENT SUPERVISION

- since 2021 **Daming Yang** (Master student, Leiden Observatory)
 supervision of Master project
- 2019 **Zhang-Liang Xie** (summer student, MPIA)
 co-supervision of summer project (primary advisor: Eduardo Bañados)
- 2018 — 2019 **Lukas Wenzl** (visiting student, University of Arizona/ Bachelor student, MPIA)
 supervision of undergraduate research/Bachelor project, 1 publication

TEACHING

- 2016 **Guest lecture** — Black holes (Astronomy 203 - Stars)
 Steward Observatory, University of Arizona, USA
- 2016 **Guest lecture** — Fusion in stars (Astronomy 203 - Stars)
 Steward Observatory, University of Arizona, USA
- 2016 **Teaching Assistant** (Astronomy 203 - Stars)
 Steward Observatory, University of Arizona, USA
- 2015 **Teaching Assistant** (Astronomy 170B1 - The Physical Universe)
 Steward Observatory, University of Arizona, USA

SCIENTIFIC SOFTWARE DEVELOPMENT

- 2022 **Lead developer of Sculptor** - Interactive modeling of (electromagnetic) astronomical spectra
 (open-source software, [github](#), [ReadTheDocs](#), [ASCL](#))
- 2021 **Co-developer of simqso** - Module for generating simulated quasar spectra
 (open-source software, [github](#), [ReadTheDocs](#), [ASCL](#))

2020 **Co-developer of Pypelt** - The Python Spectroscopic Data Reduction Pipeline
(open-source software, [github](#), [ReadTheDocs](#), [Zenodo](#))

SERVICE

Service to Profession

2021 **SOC member**, EAS Symposium S7
Quasars at the reionization epoch

2020 **Lead-organizer**, Splinter session at German Astronomical Society meeting
Accreting supermassive black holes through cosmic time

since 2020 **Co-lead** classification working group, LSST AGN science collaboration

since 2017 **Referee** (MNRAS, A&A, ApJ)

Departmental Service

2020 – 2021 Seminar organizer (Galaxy coffee, MPIA)

2020 – 2021 Postdoc representative (MPIA)

2019 – 2021 Time allocation committee (MPIA)

2019 Ph.D. application committee (IMPRS-HD)

2010 – 2011 Head of physics student representatives (Kiel)

2009 – 2011 Student representative on the board of the department of physics (Kiel)

2009 – 2011 Student representative on the examination board of the physics department (Kiel)

PUBLIC OUTREACH

2017 **Public Talk** - Astronomy on Tap Series, Borderlands Brewery, Tucson

2017 **Invited Article** - "Warum steht die Erde nie still", German on-line magazine "Krautreporter"

2016 **Invited talk** - "Black Holes", Desert Sky Middle School, Tucson

2015 **Invited talk** - "Black Holes", Desert Sky Middle School, Tucson

2014 **Invited talk** - "Black Holes", Desert Sky Middle School, Tucson

PROFESSIONAL MEMBERSHIPS

Deutsche Physikalische Gesellschaft (German Physical Society)

Astronomische Gesellschaft (German Astronomical Society)