

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 2023 **Emmy Noether Junior Research Group Leader**
Hamburg University, Hamburg, Germany
- 2021 — 2023 **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

36 refereed publications since 2015, with a total of > 1400 citations and an h-index of 21.
(9 as first author, 1 as second author lead by an advised student)
A complete publication list is enclosed and available on [NASA/ADS](https://ui.adsabs.org/).

GRANTS & THIRD PARTY FUNDING

- 2022 **Emmy Noether Independent Junior Research Group (1,750,101 €)**
Deutsche Forschungsgemeinschaft (DFG)
- 2015 **Science PI: HST, Cycle 23, Archival Proposal 14312 (\$149,266)**
Space Telescope Science Institute

AWARDS, HONORS, AND SCHOLARSHIPS

- 2019 **Best Poster Prize**
IAU Symposium 352, Portugal, June 2019
- 2012 **Fulbright Scholarship**, University of Arizona, 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
"Astero seismic Constraints on the Evolutionary Models of Hot Subdwarfs"

Selected Seminar Talks and Conference Contributions

- 2022 **Colloquium**, Nov. 2022, Hamburg Observatory, Hamburg University
"The Rise and Fall of Quasars"
- 2022 **"What drives the growth of black holes: a decade of reflection"**, Reykjavik, Iceland, Sep. 2022
"Supermassive Black Hole Growth in the Reionization Era"
- 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 **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"
- 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 "The Southern Extremely Luminous Quasar Survey (ELQS) at $z \approx 3 - 5$ "
2018	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, 7 nights)

STUDENT SUPERVISION

since 2022	Ben Wang (PhD student, Leiden Observatory) co-supervision of PhD project
2021-2022	Daming Yang (Master student, Leiden Observatory) co-supervision of Master project, 1 publication (to be submitted)
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, PASA)

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)

Euclid Consortium (primeval Universe working group)

LSST AGN Science Collaboration (Classification subgroup co-lead)