

Dr. Eduardo Bañados

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CURRENT POSITION

Research Group Leader *February 2019 - Present*
Max Planck Institute for Astronomy, Königstuhl 17, D-69117, Heidelberg, Germany

PREVIOUS POSITION

Carnegie – Princeton Fellow *November 2015 - December 2018*
Carnegie Observatories, 813 Santa Barbara Street Pasadena, CA 91101
Princeton University, Peyton Hall. 4 Ivy Lane, Princeton, NJ 08544

RESEARCH INTERESTS

- Observational cosmology
- High- z quasars/galaxies
- Time domain astronomy
- Epoch of Reionization
- (Sub)mm/radio astronomy
- Big data

EDUCATION

University of Heidelberg, Germany *September 2011 - June 2015*
Ph.D. in Astronomy; Summa Cum Laude
Thesis: *The discovery and characterization of the most distant quasars*
Supervisor: Dr. Fabian Walter (MPIA)

P. Universidad Católica de Chile *March 2006 - August 2010*
B.S. in Astronomy; Maximum Distinction
Thesis: *Luminosity function and alignment effect in galaxy clusters
& Clustering of Lyman Alpha Emitters*
Supervisors: Prof. Leopoldo Infante & Dr. Roberto De Propris

SELECTED HONORS AND AWARDS

Annual Review of Astronomy and Astrophysics journal 2023. Invited review on *Quasars and the Intergalactic Medium at Cosmic Dawn*.

Ludwig-Biermann Award 2019. German Astronomical Society.
Awarded to an outstanding young (under 35 years) astronomer in Germany.

Thacher Award 2017. Carnegie Institution for Science.
Awarded for an outstanding scientific research proposal.

Otto Hahn Medal 2015. Max Planck Society.
Awarded to young scientists with outstanding achievements.

PEER-REVIEWED PUBLICATIONS

I have **105 refereed publications** (13 as first-author and 26 as second or third-author papers) with over **6000 total citations** leading to an **h-index of 42** (see complete list in this link).

INSTITUTIONAL RESPONSIBILITIES

Co-lead of the high- z QSO working group within the Euclid collaboration 2022 –
Steering committee of the EREBUS high- z QSO/JWST collaboration 2021 –
Scientific advisory committee for the Large Binocular Telescope Observatory 2019 –
Chair since October 2020

Postdoc recruitment committee at MPIA	2019, 2021, 2022
Founder and organizer of the weekly high- z meetings at MPIA	2020 –
Organizer of the Carnegie Observatories lunch talks	2017
Representative of postdoctoral fellows at Carnegie Observatories	2016 – 2017

REVIEWING ACTIVITIES

Proposal reviewer: JWST (2021); HST (2018, 2021); Giant Meterwave Radio Telescope (2018); China telescope access program (2016)

Journal referee: ApJ, ApJL, AJ, MNRAS, Nature Astronomy

SUCCESSFUL TELESCOPE PROPOSALS

As a **Principal Investigator**, I have obtained data from most major ground-based (e.g., VLT, LBT, Magellan, GTC, Gemini, VLA, NOEMA, ALMA) and space-based (e.g., Chandra, XMM, HST, JWST) observatories. As a Co-Investigator, I am part of several projects totaling more than 100 observing nights. Below I highlight a few **ongoing programs**:

- The Canarias search for the first quasars - International Time **Large Program – PI**
15 nights imaging with the NOT and 76 hours spectroscopy with the GTC (2021–2024).
- ALMA Cycle 9 **Large Program – 100 hours – Co-PI** (PI: F. Wang)
Targeting the environment of 25 $z > 6$ quasars that are also being observed with JWST.
- *Chandra* Cycle 24 **Large Program – 708 ks – PI**: T. Connor.
X-ray Jets in the First Radio-Loud Quasars
- ESO/VLT **Large Program – 250 hours – PI**: V. D’Odorico
XQR-30: the ultimate quasar sample at the reionization epoch
- **Six JWST Cycle 1 programs** (PI, Co-PI, 3× Co-I).

ORGANIZER OF SCIENTIFIC MEETINGS AND SCHOOLS (SELECTED)

First Stars VII; New York — SOC member	May 2024
<i>Unravelling galaxy evolution with JWST</i> — 70–90 graduate students	September 2023
IMPRS Heidelberg Summer School, Germany	
<i>High-z QSOs with Euclid</i> ; Ringberg Castle, Germany — 15 participants	April 2023
<i>Cosmic Dawn with JWST</i> ; Ringberg Castle, Germany — 40 participants	October 2022
<i>Supermassive Black Holes at High Redshift</i> ; Greece — SOC member	July 2022
<i>Quasars and Galaxies through Cosmic Time</i> — 450 participants (online)	January 2022
<i>JWST Master Class in Germany</i> — 50 participants (online)	October 2020
<i>Black holes and galaxies at the edge of the Universe</i>	March 2020
Ringberg Castle, Germany — 40 participants	
<i>High-z quasars in the JWST era workshop</i> — 30 participants	February 2017
Carnegie Observatories, USA	

SELECTED INVITED TALKS

I have been **invited speaker** to present my work at international conferences and astronomy departments around the world **39 times**. A complete list is available upon request.

Princeton & IAS Joint Astrophysics Colloquium , USA	March 2022
Rome Joint Astrophysics Colloquium , Italy	November 2021
Tata Institute of Fundamental Research , Physics Colloquium, India	October 2021
Oxford University . Astrophysics Colloquium, England	February 2020