

# Rohan Dahale

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Instituto de Astrofísica de Andalucía  
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## Research Interests

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Imaging supermassive black holes and relativistic jets with mm-VLBI observations (EHT, VLBA, GMVA, *RadioAstron*), Jet Launching, Bayesian Imaging and Modeling, Dynamical Imaging

## Experience

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**PhD Candidate, Instituto de Astrofísica de Andalucía (IAA-CSIC)** Sep 2022–present

- Supervisor: Dr. José L. Gómez
- Event Horizon Telescope Collaboration Member
- "la Caixa" Doctoral Fellow
- Working on Bayesian Imaging using mm-VLBI data

**Master Thesis, Instituto de Astrofísica de Andalucía (IAA-CSIC)** Oct 2021–Jun 2022

- Title: Magnetic Fields of Relativistic Jets of Supermassive Black Holes
- Supervisor: Dr. José L. Gómez
- Funded by JAE-INTRO Fellowship by CSIC

**Research Intern, University of California, Santa Barbara** May–July 2019

- Supervisors: Dr. Emilia Järvelä, Prof. Robert Antonucci
- Extended Radio Emission in Narrow-line Seyfert 1 Galaxies with JVL A
- QSO PG 1630+377 Lyman Edge Polarisation using Hubble

## Education

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**Universidad de Granada** 25 Nov 2022–present

*Doctoral Programme in Physics and Space Sciences*

**Indian Institute of Science Education and Research Kolkata** 1 Aug 2017–14 Jul 2022

*Bachelor and Master of Science in Physical Sciences*

## Publications

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- [1] G.-Y. Zhao, J. L. Gómez, A. Fuentes, *et al.*, "Unraveling the Innermost Jet Structure of OJ 287 with the First GMVA + ALMA Observations," *The Astrophysical Journal*, vol. 932, no. 1, p. 72, Jun. 2022. DOI: [10.3847/1538-4357/ac6b9c](https://doi.org/10.3847/1538-4357/ac6b9c). arXiv: [2205.00554](https://arxiv.org/abs/2205.00554) [[astro-ph.HE](#)].
- [2] E. Järvelä, **Dahale, R.**, L. Crepaldi, *et al.*, "Unravelling the origin of extended radio emission in narrow-line Seyfert 1 galaxies with the JVL A," *Astronomy & Astrophysics*, vol. 658, A12, Feb. 2022. DOI: [10.1051/0004-6361/202141698](https://doi.org/10.1051/0004-6361/202141698). arXiv: [2109.07841](https://arxiv.org/abs/2109.07841) [[astro-ph.GA](#)].

## Honors and Awards

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**"la Caixa" Doctoral INPhINIT Fellowship** 1 Sep 2022 - 31 Aug 2025

*Fundación "la Caixa" - Instituto de Astrofísica de Andalucía (IAA-CSIC)*

- 35 fellowships (1000s of applications) are awarded to pursue PhD studies in research centres accredited with the Spanish Seal of Excellence Severo Ochoa in STEM disciplines.
- Duration: 3 years and Total grant: €122,592.

- Extension to the JAE Intro 2021 Scholarship** Mar - Jun 2022  
*Consejo Superior de Investigaciones Científicas (CSIC), Spain*
- Extension of 4 months with €2,400 is awarded to top 100 beneficiaries of the JAE Intro Scholarship
- JAE Intro 2021 Scholarship** Oct 2021 - Feb 2022  
*Consejo Superior de Investigaciones Científicas (CSIC), Spain*
- 250 scholarships (1000s of applications) offered to undergraduate students.
  - Total grant: €3,000 for five months. Used for the Master Thesis at IAA-CSIC.
- Vikram Sarabhai Innovation competiTION (VISION)** Jun - Dec 2019  
*Physical Research Laboratory, Ahmedabad, India*
- Received grant of 300,000 INR (~ €3,500) and got selected among the top 6 teams in India.
- Radio Astronomy Winter School (RAWSC) 2018** Dec 2018  
*National Centre for Radio Astrophysics (NCRA), Pune, India*  
*Inter University Centre for Astronomy and Astrophysics (IUCAA), Pune, India*
- Among the top 30 students selected in India
- INSPIRE Scholarship** Aug 2017 - Jul 2022  
*Department of Science and Technology (DST), India*
- Offered to top 1% students in 12th grade exams, undertaking Bachelor and Masters level education in the Natural Sciences. The scholarship amounts to 400,000 INR (~ €4,500) for 5 years.

## Contributed Talks

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| 1. Accelerating Bayesian Imaging with Comrade.jl       | 15 Dec 2022                  |
| <i>2022 EHT Winter (Virtual) Collaboration Meeting</i> | Presentation   Recording     |
| 2. Accelerating Bayesian Imaging with Comrade.jl       | 26 Oct 2022                  |
| <i>Resolve Workshop 2022, MPIfR, Bonn, Germany</i>     | <a href="#">Presentation</a> |

## Workshops & Conferences

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- 2022 EHT Winter (Virtual) Collaboration Meeting** 12 - 15 Dec 2022  
*Event Horizon Telescope Collaboration*
- Resolve Workshop 2022** 24 - 27 Oct 2022  
*MPIfR, Bonn, Germany*
- European Radio Interferometry School 2022** 18 - 25 Sept 2022  
*JIVE & ASTRON, Dwingeloo, Netherlands*
- European Astronomical Society Annual Meeting** 27 Jun - 1 Jul 2022  
*Valencia, Spain*
- Assembling the ngEHT** 22 - 25 Jun 2022  
*Next Generation Event Horizon Telescope, Granada, Spain*
- EHT 2022 Summer Collaboration Meeting** 19 - 22 Jun 2022  
*Event Horizon Telescope Collaboration, Granada, Spain*
- 18th Synthesis Imaging Workshop (virtual)** 25 - 28 May 2022  
*National Radio Astronomy Observatory (NRAO), USA*
- From Vision to Instrument (virtual)** 1 - 5 Nov 2021  
*Next Generation Event Horizon Telescope*

## Teaching

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### Spring 2021: PH1201: Electricity and Magnetism

Apr - Jul 2021

*Level: First Year BS-MS, IISER Kolkata*

### Autumn 2020: PH1101: Mechanics I

Dec 2020 - Mar 2021

*Level: First Year BS-MS, IISER Kolkata*

### Autumn 2020: PH3103: Mathematical Methods for Physics

Aug - Dec 2020

*Level: Third Year BS-MS, IISER Kolkata*

## Other positions

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### Local Organizing Committee Member

22 - 25 Jun 2022

*Assembling the ngEHT, Granada, Spain*

### Local Organizing Committee Member

19 - 22 Jun 2022

*EHT 2022 Summer Collaboration Meeting, Granada, Spain*

### Class Representative, Department of Physical Sciences

Aug 2019 - Dec 2020

*Indian Institute of Science Education and Research Kolkata*

## Skills

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**VLBI:** Comrade.jl, eht-imaging, *AIPS*, ParselTongue, DIFMAP, CASA

**Programming:** Julia, Python

**Softwares:** L<sup>A</sup>T<sub>E</sub>X, Inkscape

**Languages:** C2: English, Hindi, Marathi (Native)

## References

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### Dr. José L. Gómez

Research Scientist

Instituto de Astrofísica de Andalucía (IAA - CSIC)

Granada, Spain

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