

Abhijeet ANAND

PERSONAL DATA

NATIONALITY AND DATE OF BIRTH: Indian | 3rd Feb 1995.
CURRENT ADDRESS: Max-Planck-Institut für Astrophysik, Garching, Germany.
PHONE: (+49) 89 30000 2298
EMAIL: abhijeet@mpa-garching.mpg.de
WEBSITE: <https://www.mpa.mpa-garching.mpg.de/abhijeet/>

EDUCATION

Sept 2018- Dr. rer. nat. in PHYSICS, **Ludwig-Maximilians-Universität**, Germany.
Thesis: “Constraining circumgalactic medium properties with large spectroscopic surveys.”
Advisors: Prof. Dr. Guinevere KAUFFMANN, MPA, & Dr. Dylan NELSON, ITA, Heidelberg.

Jun 2016- Master of Science in PHYSICS, **Indian Institute of Science**, India.
Jul 2017 Thesis: “A sensitive search for HI 21 cm in superdisks of large radio galaxies.”
Advisor: Dr. Nirupam Roy, Indian Institute of Science, Bangalore.
TGPA: 7.0/8 (Overall CGPA in five years (2012-2017): 6.6/8).

Aug 2012- Bachelor of Science (Research) in PHYSICS, **Indian Institute of Science**, India.
May 2016 Thesis: “Sources of Continuum Opacity in Hydrogen deficient stars.”
Advisor: Prof. Gajendra PANDEY, Indian Institute of Astrophysics, Bangalore.
TGPA: 6.7/8 (Overall CGPA in four years (2012-2016): 6.5/8).

REFEREED PUBLICATIONS

- 2021 **A. Anand**, D. Nelson and G. Kauffmann, “Characterizing the abundance, properties, and kinematics of the cool circumgalactic medium of galaxies in absorption with SDSS DR16”, 2021, *MNRAS*, 504, 65 [[arXiv](#)] [[ADS](#)].
- 2019 **A. Anand**, N. Roy and Gopal-Krishna, “Search for H I emission from superdisk candidates associated with radio galaxies”, 2019, *RAA*, Vol. 19, No.6, 83, [[arXiv](#)] [[ADS](#)].

CONFERENCES, TALKS & SCHOOLS (IN PHD)

SEP. 2021 German Astronomical Society Meeting 2021, 16 Sep, 2021 (*Zoom talk*)

AUG. 2021 SDSS-IV Collaboration Meeting 2021, 12 Aug, 2021 (*Zoom talk + poster*)

JUL. 2021 MIAPP Workshop: High-Energy Plasma Physics Phenomena in Astrophysics, MIAPP, Garching, Jul 19 - 30, 2021 (*Zoom participant*).

JUN. 2021 MPA Galaxy Group Retreat, Fraueninsel, Chiemsee, 14-17 June, 2021 (*Talk*).

MAY. 2021 Galaxy Group Meeting, MPA, Garching, 26 May, 2021 (*Talk*).

JAN. 2021 Fundamental of Gaseous Halos Workshop, KITP, UCSB, 11 Jan - 5 Mar, 2021, (*Participant*).

OCT. 2020 Galaxy Introductory Symposium, MPA, Garching, 27 Oct, 2020 (*Talk*).

OCT. 2020 Institute Seminar, MPA, Garching, 26 Oct, 2020 (*Talk*).

JUL. 2020 IMPRS Students’ Symposium, MPE, Garching, 30-31 July, 2020 (*Talk*).

JUL. 2020 Galaxy Group Meeting, MPA, Garching, 17 July, 2020 (*Talk*).

OCT. 2019 CGM 2019: CGM Conference, Berlin, 3 Oct - 5 Oct 2019 (*Participation*).

AUG. 2019 SUMMER SCHOOL: Galaxy Formation, AKSS, Spetses, 28 Aug - 5 Sept 2019.

COURSES (IN PHD)

JUN. 2021 IMPRS¹ AC²: AGN Physics, MPE, Garching, 28 Jun - 2 Jul, 2021.
APR. 2021 IMPRS AC: Astropysical Dynamics, MPE, 12-23 Apr, 2021.
NOV. 2020 IMPRS AC: Cosmic Microwave Background, MPE, Garching, Nov 3 - Dec 3, 2020 (*Zoom*).
MAR. 2020 IMPRS AC: Galaxy Formation and Evolution, MPE, 2-6 Mar, 2020.
NOV. 2019 IMPRS AC: Cosmic Structure Formation, MPE, 25-29 Nov, 2019.
MAY. 2019 IMPRS Soft Skills Course: Python Programming, MPE, Garching, 6-10 May 2019.
APR. 2019 IMPRS AC: Galaxy Evolution from the Galaxies' Perspective, MPE, 8-12 Apr'19.
MAR. 2019 IMPRS Soft Skills Course: Git/Bash Programming, MPE, Garching, 19-22 Mar 2019.
JAN. 2019 IMPRS AC: High Resolution Imaging Methods in Astronomy, MPE, 14-18 Jan'19.
NOV. 2018 PYTHON for HPC, attended at MPCDF, Garching, 20-21 Nov 2018.

RESEARCH INTERESTS

CIRCUMGALACTIC MEDIUM Constraining CGM properties using large spectroscopic surveys.
GALAXY EVOLUTION How galaxy properties affect the nature of the CGM?
DATA ANALYSIS Developing new tools to analyze large astronomical dataset.

AWARDS AND ACHIEVEMENTS

SEPT 2018- IMPRS PhD Fellowship.
SEPT'17 - JUL'18 UGC³ - Junior Research Fellow (JRF), IAS, Bangalore.
AUG'12 - JUL'17 Institute Scholarship, Indian Institute of Science, Bangalore.

LANGUAGES

HINDI: Mother tongue
ENGLISH: Full professional proficiency
GERMAN: Very basic Knowledge (A2.1)

COMPUTER SKILLS

Languages: PYTHON
Packages/Tools: NumPy, Matplotlib, SciPy, Astropy
OS/Applications: Windows, Linux, Macintosh, \LaTeX , MS-Office

INTERESTS AND ACTIVITIES

Member of Local organizing Committee of VIIth IMPRS Student Symposium, 4-5 Apr, 2019.
Served as online physics tutor at E-acharya⁴ from June 2017 - Aug 2018.
Organized scientific and technical workshops in "Pravega"⁵, during Jan 2014.
Science & Technology, Programming, Politics.
Table Tennis, Origami, Playing Flute.
Poet at: <https://baryonicpoet.wordpress.com/>

Last updated on 2021-09-16

¹ International Max Planck Research School ² Advance Course (1-2 weeks long) ³ University Grants Commission, Govt. of India ⁴ an initiative to help poor students in sub-urban and rural areas of Bihar, India. ⁵ the Annual Science & Cultural Festival of the Indian Institute of Science.