ANUPAMA B

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Research scholar
School of Physics

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University of Hyderabad, Telangana

Education

Degree/Certificate	University/Institute/Board	CGPA/Percentage	Year
Integrated MSc Physics	Amrita Vishwa Vidyapeetham, Coimbatore	9.65 out of 10	2014-2019
Senior Secondary	Kendriya Vidyalaya, Kanjikode (CBSE)	91.4%	2014
Secondary	Kendriya Vidyalaya, Kanjikode (CBSE)	9.6 out of 10	2012

Projects

- **Amrita Vishwa Vidyapeetham** *April 2019 / Coimbatore*
  Master's Thesis : Synthesis and characterization of $CoNi_2O_4$ as the counter electrode in DSSC
  – Hands on experience in one step hydrothermal method and in fabricating dye sensitized solar cell; learned about different characterisation techniques; got introduced to the world of research including planning, execution and scientific writing; presented the work in national and international conferences.
- **Indian Institute of Astrophysics** *June 2018 / Bangalore*
  Summer Project : Estimation of intrinsic colors of main sequence stars in Pan-STARRs filter bands
  – Extensive reading on stars, interstellar medium and color index; astronomical data analysis; developed a python code for estimating the intrinsic colors of main sequence stars; improved communication skills, presentation skills and teamwork; discussion with leading astrophysicists about the recent trends.

Schools Attended

- **Abdul Salam's International Center for Theoretical Physics** *July 2022 / Italy*
  Summer School on Cosmology
  – Attended online classes on structure formation, inflation, dark energy, CMB, gravitational waves.
- **Osmania University** *July 2019 / Hyderabad*
  Certificate course on Astronomy and Astrophysics
  – Basics of astronomy, solar system, stellar evolution, structure of galaxies, high energy universe, unsolved mysteries of universe and a visit to Jabal Rangapur Observatory.
- **Manipal Center for Natural Sciences** *Dec 2018 / Manipal*
  Summer School on Particle Cosmology
  – Attended classes on dynamics of space-time, cosmology and particle physics, thermal history of universe, quantum gravity, dark matter and its detection.
- **Indian Institute of Astrophysics, Solar Observatory** *May 2018 / Kodaikanal*
  Summer School on Astronomy and Astrophysics
  – Attended classes on observational astronomy, radiative processes, IR and radio astronomy, star formation, MHD, cosmology, stellar spectroscopy, high energy astrophysics and astronomical instrumentation.

Positions of Responsibility

- **Member of Board of Studies,** Amrita Vishwa Vidyapeetham, Kochi campus. *Aug 2022 - present*
- **Mess secretary,** Ladies hostel mess III, University of Hyderabad. *June 2022*

Achievements

- **Prime Minister's Research Fellowship** (PMRF ID : 3702550) for PhD. *2022*
- **All India rank 1837 and GATE Score 408** in GATE 2022 Physics. *2022*
- An overall **IELTS** (International English Language Testing System) **score of 7.5** out of 9. *2019*
- **First Rank and Gold medal** in Integrated MSc Physics and was placed in First class with distinction. *2019*

Publication

- **Title :** Synthesis and characterization of $CoNi_2O_4$ prepared by one step hydrothermal method
  Authors : B Anupama, T Raguram and K S Rajni **Link** : https://doi.org/10.1016/j.matpr.2022.05.402

Conferences and Workshops

- Presented a talk on : **A viable solution to the Hubble tension from quantum gravity** at the meeting of Indian Association for General Relativity and Gravitation, IISER Kolkata. *Dec 2022*
- Presented a poster on **A possible solution to the Hubble tension from quantum gravity**, at DAE-BRNS HEP symposium, IISER Mohali. *Dec 2022*
- Attended the online workshop organised by **Gravitational wave data science center**. *June 2022*
- Attended the international workshop on **Testing General Relativity** by IIT Gandhinagar. *March 2022*
- Attended the webinar on **A 40-Year Journey Professor Reinhard Genzel, Nobel laureate Physics 2020** by University of Delhi and National Academy of Sciences, India. *Jan 2022*
- Attended the workshop on **Life in Space** by Indian Astrobiology Research Centre. *June 2019*
- **Presented a poster** titled Structural, morphological and optical characterization of $CoNi_2O_4$ counter electrode for Dye Sensitized Solar Cell at the **conference on Materials and Technologies For Energy Conversion and Storage**, held at Bhabha Atomic Research Centre, Mumbai. *Sept 2018*
- Attended the lecture series **Exciting Neutrino Physics**, conducted by Tamil Nadu Science Forum (TNSF) at IIT Madras. *Sept 2018*
- **Presented a research paper** titled *$CoNi_2S_4$ as counter electrode in Dye sensitized solar cells*, at the **International Symposium on Nanomaterials for Clean Energy and Health Application** at CIT, Coimbatore. *Dec 2017*