Agnibha Banerjee

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Education

The Open University, UK   *Present*
PhD Student
- Exploring Exo-Venuses with JWST ¦ Supervisor: Dr Joanna Barstow

Indian Institute of Science Education and Research (IISER), Kolkata   *2021*
B.S. - M.S. Dual Degree in Physics
- CGPA: 9.08/10

Adamas International School   *2016*
Class XII, Council for the Indian School Certificate Examinations (CISCE)
- Percentage: 97.0%

Research Experience

Indian Institute of Science Education and Research (IISER), Kolkata   *Sep. 2020 - Jul. 2021*
Supervised by: Dr. Dibyendu Nandi
Masters Thesis Project
- Learned and implemented techniques for atmospheric retrieval of exoplanets.

McGill University, Montreal   *May 2019 - Aug. 2019*
Supervised by: Dr. Nicolas B. Cowan
- Implemented analytical models for calculating the incident light map on ultra-short period exoplanets.

Indian Institute of Technology (IIT), Indore   *Jun. 2018 - Jul. 2018*
Supervised by: Dr. Bhargav Vaidya
- Developed a Monte Carlo radiative transfer code in Python to generate output images when a light beam passes through an optical density grid.

Publication

Modelling the atmosphere of lava planet K2-141b: implications for low and high resolution spectroscopy
*Nguyen, T.G.; Cowan, N.B.; **Banerjee, A.**; Moores, J.E.*
Monthly Notices of the Royal Astronomical Society, 499, 4605, 2020

Awards & Recognitions

MITACS Globalink Research Internship   *May 2019 - Aug. 2019*
Top 1% (Top 25) in the National Graduate Physics Examination   *Jun. 2018*
Kishore Vaigyanik Protsahan Yojana (KVPY) Fellowship   *Aug. 2017*
Jagadis Bose National Science Talent Search Senior Scholarship   *Oct. 2016*
DST INSPIRE Scholarship   *Aug. 2016*
Top 1% all-India in Class XII Examinations   *Mar. 2016*

Skills

Programming	Python, Java, C, SQL, JavaScript, LaTeX, Git/GitHub
Software	MATLAB, Mathematica
Operating Systems	Linux, Windows
Languages	English, Bengali, Hindi

Conferences & Schools Attended

ERS Data Challenge with Simulated Data Workshop, *Online*	Mar. 2022
ERS Pre-Launch Theory Webbinar (JWST), *Online*	Jul. 2021
Code/Astro 2021, *Caltech (Online)*	Jun. 2021
European Astronomical Society Annual Meeting 2021, *Leiden (Online)*	Jun. 2021
Saas-Fee Course 2020, *NCCRS, Bern (Online)*	Mar. 2021
Exoplanets III, *Heidelberg (Online)*	Jul. 2020
2020 Sagan Exoplanet Summer Virtual Workshop, *NExScI, Caltech (Online)*	Jul. 2020
Canadian Astronomy Society (CASCA) Annual General Meeting 2019, *McGill University, Montreal*	Jun. 2019
NVidia GPU Based High Performance Computing Workshop, *IISER, Kolkata*	Oct. 2019
Introductory Summer School on Astronomy and Astrophysics, *IUCAA, Pune*	May 2018

Institute Service & Volunteering

Volunteer
European Astronomical Society Annual Meeting 2021   *Jul. 2021*

Data Analyst and Website Designer
CESSI IISER Kolkata outreach initiative on COVID-19   *Jun. 2020 - Jul. 2021*

Class Representative
Department of Physical Sciences, IISER Kolkata   *Aug. 2019 - Jul. 2020*