

Agnibha Banerjee

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Education

Indian Institute of Science Education and Research (IISER), Kolkata 2016 - 2021
B.S. - M.S. Dual Degree in Physics

- CGPA: 9.08/10

Adamas International School, Kolkata 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, Julia, JavaScript, LaTeX, Git/GitHub
Software	MATLAB, Mathematica, Inkscape
Operating Systems	Linux, Windows
Languages	English, Bengali, Hindi

Conferences & Schools Attended

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

Institute Service & Volunteering

Volunteer	
<i>European Astronomical Society Annual Meeting 2021</i>	<i>Jul. 2021</i>
Data Analyst and Website Designer	
<i>CESSI IISER Kolkata outreach initiative on COVID-19</i>	<i>Jun. 2020 - Jul. 2021</i>
Class Representative	
<i>Department of Physical Sciences, IISER Kolkata</i>	<i>Aug. 2019 - Jul. 2020</i>