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RESEARCH INTERESTS	Classical Dwarfs and Ultra Diffuse Galaxies, Globular Clusters, Fuzzy Dark Matter, Galaxy Dynamics	
EDUCATION	<div>Yale University, New Haven, CT, USA<ul style="list-style-type: none">– Ph.D. in Astronomy, Expected May 2022– Advisors: Frank van den Bosch and Pieter van Dokkum– M.S., M.Phil. in Astronomy, May 2018</div> <div>Presidency University, Kolkata, India<ul style="list-style-type: none">– M.Sc. in Physics– Thesis: The Sunyaev-Zel’dovich Signal from Quasar Host Halos– Advisor: Suchetana Chatterjee</div> <div>Presidency College, University of Calcutta<ul style="list-style-type: none">– B.Sc (Honors) in Physics– Minor in Mathematics and Chemistry</div>	<div>2016-</div> <div>2013-2015</div> <div>2010-2013</div>
POSITIONS	<div>Yale University, Astronomy Department<ul style="list-style-type: none">– Graduate Research Assistant– Advisors: Frank van den Bosch and Pieter van Dokkum</div> <div>Presidency University, Physics Department<ul style="list-style-type: none">– Project Assistant (Junior Research Fellow)– Project Title: Modeling the 21 cm Signal from the Dark Ages– Advisor: Kanan Kumar Datta</div>	<div>2018-</div> <div>2015-2016</div>
AWARDS	<div>– Sheldon Wise Pre-Doctoral Fellowship, Yale University</div> <div>– Department of Science and Technology, Government of India Junior Research Fellowship</div> <div>– Department of Science and Technology, Government of India INSPIRE scholarship</div> <div>– Lilabati Ray Memorial Prize for Best Student Seminar, Presidency University, Kolkata</div>	<div>2017-2018</div> <div>2015-2016</div> <div>2010-2015</div> <div>2015</div>
PROFESSIONAL ACTIVITIES	<div>– Referee for ApJ</div> <div>– Yale Astronomy Graduate Student Talks SOC Member</div> <div>– Galaxy Lunch Moderator, Yale Astronomy Department</div>	<div>2019-</div> <div>Spring 2019</div> <div>2017-2018</div>
TEACHING EXPERIENCE	<div>– Teaching Fellow, Planets and Stars, Yale University</div> <div>– Teaching Fellow, Galaxies and the Universe, Yale University</div>	<div>Spring 2017</div> <div>Fall 2017, 2019</div>
TUTORING EXPERIENCE	<div>– Private Tutor of High School Physics and Mathematics</div>	<div>2014-2016</div>

FIRST AUTHOR PAPERS

1. **Dutta Chowdhury, D.**, van den Bosch, F.C., Robles, V.H., van Dokkum, P. et al. “On the Random Motion of Nuclear Objects in a Fuzzy Dark Matter Halo”, submitted to ApJ
2. **Dutta Chowdhury, D.**, van den Bosch, F.C., and van Dokkum, P. “On the Evolution of the Globular Cluster System in NGC 1052-DF2: Dynamical Friction, Globular-Globular Interactions, and Galactic Tides” 2020, ApJ, 903, 149
3. **Dutta Chowdhury, D.**, van den Bosch, F.C., and van Dokkum, P. “On the Orbital Decay of Globular Clusters in NGC 1052-DF2: Testing a Baryon Only Mass Model” 2019, ApJ, 877, 133
4. **Dutta Chowdhury, D.** and Chatterjee, S. “Sunyaev-Zel’dovich Signal from Quasar Hosts: Implications for Detection of Quasar Feedback” 2017, ApJ, 839, 34

CO-AUTHOR PAPERS

1. Ansar, S., Datta, K.K. and **Dutta Chowdhury, D.** “Impact of Inhomogeneous CMB Heating of Gas on the HI 21-cm Signal During Dark Ages” 2018, PhysRevD, 98, 103505

CONTRIBUTED TALKS

1. “Imprints of the Recombination History of the Universe on the HI 21-cm Signal from the Dark Ages, Epoch of Reionization Workshop, IIT Kharagpur, India, July 2016
2. “Sunyaev-Zel’dovich Signal from Quasar Hosts: Implications for Quasar Feedback Detection”, Topical Conference on Gravity, Cosmology, Astronomy and Astrophysics, Eastern Region, IISER, Kolkata, India, Sept 2015

INVITED TALKS

1. “On the Dynamics of the Globular Cluster System in NGC 1052-DF2: The Galaxy Lacking Dark Matter”, Physics Club Talk, Presidency University, Kolkata, India, June 2019

POSTER PRESENTATIONS

1. “On the Orbital Decay of Globular Clusters in NGC 1052-DF2: Testing a Baryon Only Mass Model”, Santa Cruz Galaxy Workshop, University of California, Santa Cruz, USA, Aug 2019
2. “On the Orbital Decay of Globular Clusters in NGC 1052-DF2: Testing a Baryon Only Mass Model”, Small Galaxies, Cosmic Questions Conference, Durham University, Durham, UK, July 2019
3. “Sunyaev-Zel’dovich Signal from Quasar Hosts: Implications for Quasar Feedback Detection”, International Conference on Gravitation and Cosmology, IISER Mohali, India, Dec 2015

COMPUTATIONAL SKILLS

- N-Body simulations with GADGET
- Fuzzy Dark Matter simulations with GAMER (AMR Code)
- Programming skills in C, C++, FORTRAN 77, and Python
- Familiarity with MATLAB and Yt (data analysis and visualisation package)