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RESEARCH INTERESTS	Classical Dwarfs and Ultra Diffuse Galaxies, Globular Clusters, Fuzzy Dark Matter, Galaxy Dynamics	
EDUCATION	<b>Yale University, New Haven, CT, USA</b> – Ph.D. in Astronomy, Expected May 2022 – Advisors: Frank van den Bosch and Pieter van Dokkum – M.S., M.Phil. in Astronomy, May 2018	2016-
	<b>Presidency University, Kolkata, India</b> – M.Sc. in Physics – CGPA: 8.3/10 – Thesis: The Sunyaev-Zel’dovich Signal from Quasar Host Halos – Advisor: Suchetana Chatterjee	2013-2015
	<b>Presidency College, University of Calcutta</b> – B.Sc (Honors) in Physics – Minor in Mathematics and Chemistry – Divison: First Class	2010-2013
POSITIONS	<b>Yale University, Astronomy Department</b> – Graduate Research Assistant – Advisors: Frank van den Bosch and Pieter van Dokkum	2018-
	<b>Presidency University, Physics Department</b> – Project Assistant (Junior Research Fellow) – Project Title: Modeling the 21 cm Signal from the Dark Ages – Advisor: Kanan Kumar Datta	2015-2016
AWARDS	– Sheldon Wise Pre-Doctoral Fellowship, Yale University – Department of Science and Technology, Government of India Junior Research Fellowship – Department of Science and Technology, Government of India INSPIRE scholarship – Lilabati Ray Memorial Prize for Best Student Seminar, Presidency University, Kolkata	2017-2018 2015-2016 2010-2015 2015
PROFESSIONAL ACTIVITIES	– Referee for ApJ – Yale Astronomy Graduate Student Talks SOC Member – Galaxy Lunch Moderator, Yale Astronomy Department	2019- Spring 2019 2017-2018
TEACHING EXPERIENCE	– Teaching Fellow, Planets and Stars, Yale University – Teaching Fellow, Galaxies and the Universe, Yale University	Spring 2017 Fall 2017, 2019
TUTORING EXPERIENCE	– Private Tutor of High School Physics and Mathematics	2014-2016

**FIRST AUTHOR  
PAPERS**

1. **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”
2. **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
3. **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

**PAPERS IN  
PREPARATION**

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”

**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 (a AMR Code)
- Programming skills in C, C++, FORTRAN 77, and Python
- Familiarity with Yt (data analysis and visualisation package)