# **BIO-DATA**

1. **Name (Dr.):** Analabha Roy
2. **Designation:** Assistant Professor
3. **Complete Postal Addresses and PIN:**Department of Physics, The University of Burdwan, Golapbag Campus, Bardhaman 713104, West Bengal, India

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1. **Date of birth:** 21/03/1978
2. **Educational Qualification:**

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| --- | --- | --- | --- |
| **Degree** | **Institution** | **Field(s)** | **Year** |
| Bachelor of Science | Jadavpur University | Physics | 2000 |
| Master of Science | Indian Institute of Technology, Kanpur | Physics | 2002 |
| Doctor of Philosophy | The University of Texas at Austin, Austin, TX USA | Physics | 2009 |

1. **Research Experience**

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| --- | --- | --- |
| **Duration (From-To)** | **Institution** | **Particulars of work done** |
| 2009-2009 | Center for Complex Quantum Systems, The University of Texas at Austin, Austin, TX USA | Postdoctoral Associate |
| 2009-2011 | S.N. Bose National Centre for Basic Sciences, Kolkata, India | Postdoctoral Fellow |
| 2011-2014 | Saha Institute of Nuclear Physics, Kolkata, India | CSIR Senior Research Associate |
| 2015-2017 | Stellenbosch University, Stellenbosch, South Africa | Postdoctoral Fellow |
| 2017-Present | The University of Burdwan, Bardhaman, West Bengal, India | Assistant Professor |

1. **Other Experience (Apart from Research)**

|  |  |  |
| --- | --- | --- |
| **Duration (From-To)** | **Institution** | **Particulars of work done** |
| 2002-2009 | The University of Texas at Austin,  Austin, TX USA | Graduate Teaching Assistant (Part-Time, Department of Physics) |
| 2017-Present | The University of Burdwan, Bardhaman,  West Bengal, India | Assistant Professor (Teaching M.Sc & Ph.D, Department of Physics) |

1. **Research specialization**

* Non-Equilibrium Quantum Many Body Physics :
  + 1. [Quantum athermality and Many Body Localization](https://arxiv.org/abs/1804.11065)
    2. [Time Crystals](https://www.scientificamerican.com/article/the-exquisite-precision-of-time-crystals/)
    3. [Deep Learning in Quantum Many Body Physics](https://doi.org/10.48550/arXiv.2301.00942)
    4. [Quantum Phase Space Methods](https://arxiv.org/abs/2102.11095)
* Statistical Physics and Dynamics of Complex Systems:
  + 1. [Molecular Dynamics](http://www.mdtutorials.com/): [Drug-discovery](https://pubs.acs.org/doi/10.1021/acs.jmedchem.5b01684)
    2. [Ab-initio Quantum Methods](https://chem.libretexts.org/Bookshelves/Physical_and_Theoretical_Chemistry_Textbook_Maps/Quantum_Mechanics__in_Chemistry_%28Simons_and_Nichols%29/20%3A_Response_Theory/20.02%3A_Ab_Initio%2C_Semi-Empirical%2C_and_Empirical_Force_Field_Methods)

1. **Financial support received**

a) From the Ministry of Ayush - N/A

b) From any other Ministry of Govt. of India

Past:

* + CSIR SRA Fellowship, 2011-2014.
  + UGC-BSR Startup Grant, 2019-2021: INR 10,00,000,
  + ANRF (formerly SERB) Core Research Grant, 2019-2022: INR 34,00,000
  + ANRF (formerly SERB) TARE Fellowship, 2018-2022: INR 15,00,000

Present: N/A

Pending: N/A

c) From other Institutions (National or International) - N/A

1. **Research projects in hand under Programme on Ayurveda-Biology Integrated Health Research of Ministry of Ayush - N/A**
2. **Research Projects in hand under any other Grant-in-aid programme of Govt. of India - N/A**
3. **Other research projects, if any - N/A**
4. **Recent publications** (last 5 years, with titles and references), also papers in press
5. **Other information, if any:**

**Signature:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_