

## **Faculty Profile**



**Dr. A. Arul Anne Elden Ph.D**  
Assistant Professor - Physics

### **HIGHLIGHTS:**

- Number of Journal Publications: 3
- H-Index: 1
- Project Funding Received: Nil
- Patents Published: Nil
- Patents Granted: Nil

### **PROFESSIONAL LINKS:**

- Scopus ID: 57659002100
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=57659002100>
- Google Scholar ID: [https://scholar.google.com/citations?hl=en&user=pb--zDIAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=pb--zDIAAAAJ&view_op=list_works&sortby=pubdate)
- Anna University Faculty ID: Nil
- AICTE Faculty ID: 1-4479507842
- Anna University Supervisor ID: Nil
- LinkedIn: <https://www.linkedin.com/in/arul-anne-elden-a-77b168130/>

### **PROFESSIONAL BACKGROUND:**

- Teaching Experience till date: From 3-Feb-2025 to until now
- Industrial Experience: --
- Research Experience:
  - Post-Doctoral Research Associate at Institute of Mathematical Sciences, Chennai (August 2023 – December 2024)
  - Visiting Post-Doctoral Fellow at Institute of Mathematical Sciences, Chennai (6-January 2024 – 31-January 2024)

### **INTERNATIONAL EXPOSURE:**

- Nil

### **AREA OF SPECIALIZATION:**

- Statistical Mechanics
- Bio-Physics
- Monte Carlo techniques
- Low-dimensional magnetism

- Polymers
- Random Walks
- Phase separation

**Ph.Ds AWARDED WITH DETAILS:**

S:No	Name of Scholar	Title of Thesis	Year of Completion	Full Time/Part Time

**Ph.Ds GUIDING:**

- Full Time Scholars:
- Part Time Scholars :

**SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:**

- Nil

**PATENTS PUBLISHED/GRANTED:**

- Nil

**COURSES CERTIFIED:**

- Nil

**ACHIEVEMENTS AND AWARDS:**

- “1st Best Paper Award” in II International Conference on Material Science and Technology (ICMAST-2018) (27 – 28 August 2018) organized by Department of Physics, Pachamuthu College of Arts & Science for Women, Dharmapuri, Selam-11, Tamil Nadu, India.

**SPECIAL SESSIONS DELIVERED:**

- Nil

**CONFERENCES ATTENDED:**

- Monte Carlo simulation of Ising like system with parity breaking Hamiltonian (Poster), II International Conference on Material Science and Technology, 27 – 28 August, 2018, Pachamuthu College of Arts & Science for Women, Dharmapuri, Selam-11, Tamil Nadu, India.
- Monte Carlo study of Ising model on honeycomb lattice with additive gaussian white noise (Poster), India International Science Festival –Young Scientist Conference, 5 – 8 November, 2019, Kolkata, India.
- Spin ordering and phase behaviour of frustrated body centered cubic Ising model: A Monte Carlo (Oral-online), India International Science Festival –Young Scientist Conference, 22 – 24 December, 2020, India.
- Investigation of frustration in an Ising tube: A Monte Carlo simulation (Poster-online), International Conference on Nanoscience and Nanotechnology, 1 – 3 February, 2021, SRM Institute, Chennai, India.

- Investigation on magnetic response of graphene like Ising system (Oral-online), Middle East International Conference On Contemporary Scientific Studies – V, 27 – 28 March, 2021, Islamic University of Lebanon, Ankara, Turkey.
- Ising modelled single-walled nanotube with alternative interactions using Wang-Landau Algorithm (Short Invited Talk – online), International Online Conference on Nano Materials, 12 – 14 August, 2022, Mahatma Gandhi University, Kerala, India.
- Investigation of Ising model on square lattice with the effect of Second nearest neighbour interaction (Digital conference), Bhartiya Bhaashaon Me Tritya Antarrashtriya Vigyan Sangoshthi 14 – 15, September, 2019, NIT, Kurukshetra, India.
- Wang-Landau simulation of molecular motors: An Equilibrium Approach (Poster), 7<sup>th</sup> Indian Statistical Physics Community Meeting, 19 – 21 February, 2020, International Centre for Theoretical Sciences, Bangalore, India.

#### **WORKSHOPS ATTENDED:**

- “Science Academies Refresher course on Quantum Mechanics” (28th Nov – 10th Dec 2016) organized by Department of Physics, B. S. Abdur Rahman University, Chennai, Tamil Nadu, India.
- “Science Academies Refresher Course on Statistical Physics” (9 – 23 Dec 2018) organized by Ramakrishna Mission Vivekananda Educational and Research Institute, Belur Math, Howrah 711202, West Bengal, India.
- UGC Workshop on “Soft and Active Matter” (11 – 17 February 2018) organized by UGCNRC, School of Physics, University of Hyderabad, Hyderabad, Telangana, India.
- “Scripting Using Python” (7 – 8 July 2018) organized by Department of Electronics and Communication Engineering, PSG College of Technology, Coimbatore, Tamil Nadu, India.

#### **PROFESSIONAL MEMBERSHIPS:**

- Nil

#### **OTHER DETAILS (If any):**

- Served as a technical assistant in “Entry into Service cell”, free coaching program for state and central government exams supported by University Grand Commission (from 2016 to 2023).