



**Shaheed Rajguru College of Applied Sciences for Women  
University of Delhi  
Faculty Profile**

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|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Name                                                                                                                                    | Dr. Rashmi Verma                                                                                                                                       |  |
| Designation                                                                                                                             | Assistant Professor                                                                                                                                    |                                                                                     |
| Email                                                                                                                                   | <a href="mailto:drashmivaida@gmail.com">drashmivaida@gmail.com</a><br><a href="mailto:rashmi.verma@rajguru.du.ac.in">rashmi.verma@rajguru.du.ac.in</a> |                                                                                     |
| Degree                                                                                                                                  | Institution                                                                                                                                            | Year                                                                                |
| Ph.D (Astronomy)                                                                                                                        | University of Bologna, INAF- Istituto Di Radioastronomia, Italy                                                                                        | 2011                                                                                |
| M.Sc (Physics)                                                                                                                          | Indian Institute of Technology, Delhi                                                                                                                  | 2005                                                                                |
| B.Sc                                                                                                                                    | M.J.P Rohilkhand University, Bareilly                                                                                                                  | 2002                                                                                |
| Areas of Interest / Specialization                                                                                                      |                                                                                                                                                        |                                                                                     |
| Observational Radio Astronomy, machine learning techniques for astronomical data analysis, computational and multi-messenger astronomy  |                                                                                                                                                        |                                                                                     |
| Academic and Research Experience                                                                                                        |                                                                                                                                                        |                                                                                     |
| 2017 – till date                                                                                                                        | Assistant Professor – Physics (A), Shaheed Rajguru College of Applied Science for Women, <a href="#">University of Delhi</a> , India                   |                                                                                     |
| 2016 – 2017                                                                                                                             | Assistant Professor – Physics (A), <a href="#">Zakir Husain Delhi College</a> , <a href="#">University of Delhi</a> , India                            |                                                                                     |
| 2012 – 2014                                                                                                                             | Assistant Professor – Physics(A), <a href="#">Ramjas College</a> , <a href="#">University of Delhi</a> , Delhi, India                                  |                                                                                     |
| Apr – July, 2010                                                                                                                        | Visiting student, <a href="#">Jodrell Bank Centre for Astrophysics</a> , <a href="#">University of Manchester</a> , Manchester, UK                     |                                                                                     |
| Publications Profile                                                                                                                    |                                                                                                                                                        |                                                                                     |
| <ul style="list-style-type: none"><li>R. Rai, R. Verma, Somya, CASPER: Interpretable gravitational-wave signal classification</li></ul> |                                                                                                                                                        |                                                                                     |

with a lightweight ResNet and FastSHAP explanations, *Astronomy and Computing* 58 (2027) 101197, <https://doi.org/10.1016/j.ascom.2026.101197>

- R. Ricci, S. Righini, **R. Verma**, I. Prandoni, E. Carretti, K-H. Mack, M. Massardi, P. Procopio, A. Zanichelli, L. Gregorini, F. Mantovani, M. P. Gavronski, M.W. Peel, (2013), A 20 GHz Bright Sample for  $\delta > +72^\circ$  - II. Multifrequency follow-up, *Monthly Notices of the Royal Astronomical Society*, 435, 2793 – 2805, <https://doi.org/10.1093/mnras/stt1412>
- Righini, S., Carretti, E., Ricci, R., Zanichelli, A., Mack, K –H., Massardi, M., Prandoni, I., Procopio, P., **Verma, R.**, L’opez-Caniego, M., Gregorini, L., Mantovani, F. (2012), A 20 GHz bright sample for  $\delta > +72^\circ$  - I Catalogue. *Monthly Notices of the Royal Astronomical Society*, 426, 2107 – 2114, <https://doi.org/10.1111/j.1365-2966.2012.21864.x>

#### Fellowships & Grants awarded

- **2010 – 2011** *Research grant awarded by Institute of Radioastronomy, Bologna, Italy*
- **2007 – 2010** *Marie Curie Fellowship awarded by European Union under ESTRELA (Early-stage training site for European long-wavelength astronomy) Programme*
- **2003 – 2004** *Merit-cum-Means Scholarship, awarded by Indian Institute of Technology, New Delhi, India*

#### Awards and Distinctions

- **SCILAB TOOLBOX HACKATHON CHAMPIONSHIP CERTIFICATE** an initiative of the FOSSEE (Free/Libre and OpenSource Software in Education) project, IIT Bombay.