

Curriculum Vitae

Dr. Nilofar Nahid, Assistant Professor

Department of Mathematics

Maharaja Manindra Chandra College [University of Calcutta]

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• **Personal Information**

Date of Birth: 08.02.1991
Marital status: Married
Address: 56/1 Kedar Nath Singha Road, Ariadaha,
North 24 Parganas, West Bengal, Kolkata-700057

• **Educational Qualifications**

Ph.D. (Mathematics) (January,2015-April,2021)	IIT Kharagpur Thesis title- Approximation of Integral Equations on Unbounded Domain Supervisor: Prof. Ganeswar Nelakanti PhD Awarded : April, 2021
M. Sc. (Mathematics) (2011-2013)	Jadavpur University, Kolkata West Bengal, First division with Distinction (88.10 %)
B. Sc. (Mathematics) (2008-2011)	Jadavpur University, Kolkata, West Bengal, First division with Distinction (83.08 %)
Higher Secondary (XII) (2008)	Ariadaha Sarbamangala Balika Vidyalaya (83.09%)
Secondary (X) (2006)	Ariadaha Sarbamangala Balika Vidyalaya (81.08%)

• **Academic Achievements:**

1. Qualified Graduate Aptitude Test in Engineering (GATE) in 2014.
2. Qualified CSIR-NET in 2014.
3. Qualified NBHM-JRF in 2014.

• **Grants:**

NBHM-JRF Ph.D. Fellowship

- **Teaching at Maharaja Manindra Chandra College:**

Courses taught:

- | | |
|-----------------------|-----------------------------------|
| 1. Abstract Algebra-I | 6. Partial Differential Equations |
| 2. Advance Algebra | 7. Numerical Analysis |
| 3. Complex Analysis | 8. Multi Various Calculus-I |
| 4. Metric Space | 9. Multi-Variou Calculus-II |
| 5. Linear Algebra | |

- **Teaching Experience:**

From 15th March, 2017- Till date,
Assistant professor at Dept. of Mathematics
at Maharaja Manindra Chandra College

- **Field of specialization:**

Numerical Functional Analysis,
Approximation Theory

- **Research Interest:**

I am working on "Approximation Method of
Integral equations on unbounded domain
using piecewise/global polynomials as basis
functions"

- **Experience with Softwares:**

LaTex, Origin, Matlab and C.

- **Publications:**

Paper published at peer-reviewed journals:

1. **N. Nahid**, P. Das, G. Nelakanti, "Projection and multi projection methods for nonlinear integral equations on the half-line", **Journal of Computational and Applied Mathematics, Elsevier**, vol- 359, pp. 119–144 (2019).
2. **N. Nahid**, G. Nelakanti, "Convergence analysis of Galerkin and multi-Galerkin methods for linear integral equations on half-line using Laguerre polynomials", **Computational and Applied Mathematics, Springer**, vol-38, pp. 182 (2019).
3. **N. Nahid**, G. Nelakanti, "Convergence analysis of Galerkin and multi-Galerkin methods on unbounded interval using Hermite polynomials", **Applied Numerical Mathematics, Elsevier**, vol-152, pp. 66–83 (2020).

4. **N. Nahid**, G. Nelakanti, "Discrete projection methods for Hammerstein integral equations on the half-line" **Calcolo, Springer, vol-57, pp. 1-52 (2020)**
5. **N. Nahid**, G. Nelakanti, "Convergence analysis of Galerkin and multi-Galerkin methods for nonlinear-Hammerstein integral equations on the half-line using Laguerre polynomials" **International Journal of Computer Mathematics, Taylor & Francis, vol-99, pp. 808-836 (2021)**
6. R. Nigam, **N. Nahid**, S. Chakraborty, G. Nelakanti, "Superconvergence Results for Non-linear Hammerstein Integral Equations on Unbounded Domain" **Numerical Algorithm, Springer , pp. 1-37 (2023)**
7. P.Das, **N. Nahid**, G. Nelakanti, "Superconvergence of Iterated Galerkin Method for a Class of Nonlinear Fredholm Integral Equations" **International Conference on Information Technology and Applied Mathematics, pp. 21, (2020)**
8. R. Nigam, **N. Nahid**, S. Chakraborty, G. Nelakanti, "Discrete projection methods for Fredholm–Hammerstein integral equations using Kumar and Sloan technique" **Calcolo, Springer, vol-61, pp.1-53 (2024)**
9. R. Nigam, **N. Nahid**, G. Nelakanti, "Non-linear integral equations on unbounded domain with global polynomials" **Applied Mathematics and Computation, Elsevier, vol-471, (2024)**

- **Conferences and Symposia attended:**

1. Attended Advanced Level Workshop on Integral Equations- Solvability Analysis and Applications organized by Jaypee University of Information Technology, Wagnaghat, Solan, HP, during October 19-25, 2015.
2. Attended Advanced Instructional School on Matrix Analysis organized by Shiv Nadar University, during May 02-21, 2016.
3. Attended International Conference on Advancement of Mathematical Sciences and Computer Vision (ICAMSCV-2023) Organized by Calcutta Mathematical Society, Kolkata, India, during December 09-11, 2023.