

Personal Profile



Name: Dr. Ankit Kumar

Designation: Assistant Professor

Department: Department of Mathematics

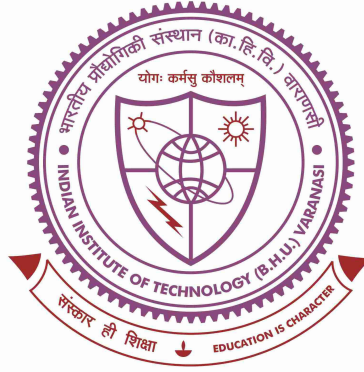
Qualification: Ph. D. NET-JRF

Mail ID : ankitkumar.rs.mat18@itbhu.ac.in

Date of Joining: 18/06/2024

Dr. Ankit Kumar has completed his Ph. D. in Mathematics from IIT B.H.U in 2023 and has joined this institute in Department of Mathematics on **18/06/2024**.

Academically he is a very bright student and has qualified CSIR-NET-JRF in Mathematics. As a researcher of Mathematics he has worked to formulate the different concepts of mathematics and has published lots of research paper in the reputed journals of international recognition in the concerned field. He has a very sound knowledge in his subject and has appointed through U. P. Higher Education Service Commission to this college. His contribution in the field of teaching will provide a new avenue to the students of this college to grow their concepts in the Mathematical science.



Department of Mathematical Sciences
Indian Institute of Technology (Banaras Hindu University)
Varanasi (U.P.)- 221005, India.



Dr. Ankit Kumar

Curriculum Vitae

Mathematics may not teach us how to add love or subtract hate but it gives us hope that every problem has a solution.

Education

- 2018-2023 **Ph.D.(Awarded)**, Indian Institute of Technology (BHU), Varanasi (UP), India.
- 2017-2018 **JRF (NET)**, CSIR, New Delhi, India.
- 2016-2017 **Teaching & Preparation for CSIR JRF**, (Dr. A. K. Smarak P.G. College Ayodhya) Dr. Ram Manohar Lohia Avadh University, Ayodhya(UP), India.
- 2013-2015 **M.Sc.**, Dr.Ram Manohar Lohia Avadh University, Ayodhya(UP), India.
- 2010-2013 **B.Sc.**, (K.S. Saket P.G. College Ayodhya) Dr.R.M.L. Avadh University, Ayodhya(UP), India.
- 2008-2010 **Intermediate**, Uttar Pradesh Board, Ambedkar Nagar (UP), India.
- 2006-2008 **High School**, Uttar Pradesh Board, Ambedkar Nagar (UP), India.

Fellowship

- 2018-2020 **Junior Research Fellowship (JRF)** provided by Council Of Scientific Industrial Research (CSIR), India.

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2020–2023 **Senior Research Fellowship (SRF)** provided by Council Of Scientific Industrial Research (CSIR), India.

Award

2022 **Raman Charpak Fellowship**, awarded by Indo French Centre for Promotion of Advanced Research (Government of India) for excellence of research.

Languages

Language 1 Hindi

Language 2 English

Computer skills

Category 1 LaTeX, Matlab.

Category 2 C, C++.

Workshop

2020 Participated in the "International Online Workshop on "Advanced Topics in Mathematics-2020," held at Dr. SPM International Institute of Information Technology, Naya Raipur, India, October 01-05, 2020.

2020 Participated in the "A Three-Day International E-Workshop on "The Foundations Of College Mathematics," held at Sovarani Memorial College, Howrah, WB & Saldiha College, Bankura, WB, India, September 21-23, 2020.

Conference

2021 Participated in the "International Conference on Nonlinear Applied Analysis and Optimization 2021, (ICNAAO-2021)", held at Indian Institute of Technology (BHU), Varanasi India, December 21-23, 2021.

2022 Participated in the "3rd International Conference on Mathematical Techniques and Applications (E-ICTMA-2022), Kattankulathur – 603 203, Tamil Nadu, India, March 23-25, 2022.

Research Interest

Topic Nonlinear Dynamics, Neural Networks, Stability analysis and Synchronization.

Research Articles

Published **Ankit Kumar** Vijay K. Yadav, Rajeev and Subir Das. "Global Exponential Stability of Takagi-Sugeno Fuzzy Cohen-Grossberg Neural Network With Time-Varying Delays." **IEEE Control Systems Letters** **6 (2021): 325-330**. **SCIE with Impact Factor: 3**.

Published **Ankit Kumar**, Subir Das, Rajeev and Vijay K. Yadav. "Global quasi-synchronization of complex-valued recurrent neural networks with time-varying delay and interaction terms." **Chaos, Solitons & Fractals** **152 (2021): 111323**. **SCIE with Impact Factor: 7.8**.

- Published **Ankit Kumar**, Subir Das, Rajeev and Vijay K. Yadav. "Global exponential synchronization of complex-valued recurrent neural networks in presence of uncertainty along with time-varying bounded and unbounded delay terms." **International Journal of Dynamics and Control (2021): 1-15.**
- Published **Ankit Kumar**, Subir Das, Vijay K. Yadav, Rajeev, Jinde Cao, and Chuangxia Huang. "Synchronizations of fuzzy cellular neural networks with proportional time-delay." **AIMS Mathematics 6, no. 10 (2021): 10620-10641. SCIE with Impact Factor: 2.2.**
- Published **Ankit Kumar**, Subir Das, Sapna Balanui, Vijay K. Yadav, Jianquan Lu, "Global quasi-synchronization of fuzzy cellular neural networks with time varying delay and interaction terms". **International Journal of Systems Science (2022):1-15. SCIE with Impact Factor: 4.3.**
- Published **Ankit Kumar**, Subir Das, Sunny Singh, Rajeev, "Quasi-projective synchronization of inertial complex-valued recurrent neural networks with mixed time-varying delay and mismatched parameters". **Chaos, Solitons & Fractals 166 (2023): 112948. SCIE with Impact Factor: 7.8.**
- Published **Ankit Kumar**, Subir Das and Young Hoon Joo , "Quasi-projective synchronization of memristor-based complex valued recurrent neural network with time-varying delay and mismatched parameters". **Neurocomputing 559 (2023): 126774. SCIE with Impact Factor: 6.**
- Published **Ankit Kumar**, Sunny Singh, Subir Das and Yang Cao, "Projective quasi-synchronization of complex-valued recurrent neural networks with proportional delay and mismatched parameters via matrix measure approach". **Engineering Applications of Artificial Intelligence 126 (2023): 106800. SCIE with Impact Factor: 8.**

References

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Dr. Rajeev

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