

Yayati Gupta

PERSONAL DATA

PLACE AND DATE OF BIRTH: Haryana, India — 15 September 1990
ADDRESS: C-583, Anuradha Clinic, 27 Feet Road, Dabua Colony,
NIT, Faridabad, Haryana- 121001
PHONE: +91 9873922733
EMAIL: yayati@iiitdwd.ac.in

OBJECTIVE

- To be a competent and independent researcher, create new knowledge, and use my presentation and teaching skills to motivate young minds.
- To use their creativity in research to expand my knowledge beyond the field of Complex Networks and engage in interdisciplinary research.

EDUCATIONAL QUALIFICATION

Degree	Board Council	Year of Passing	Subjects Taken	CGPA
Ph.D.(Computer Science and Engineering)	I.I.T. Ropar, Rupnagar	2017	Approximation Algorithms, Computational Complexity, Real Time Systems, Artificial Intelligence, Networks Science, and Software Architecture	7.9
Bachelor of Technology	M.D. University, Rohtak	2012	Algorithms, Operating Systems, Data Structures, Database Management Systems, Theory of Computation, Digital Electronics, Discrete Mathematics	78.5%
Higher Secondary (12th)	Central Board of Secondary Education	2008	English, Physics, Chemistry, Maths and Biology & Mathematics	87.5%
Secondary (10th)	Central Board of Secondary Education	2006	English, Science, Social Science and Sanskrit	85.6%

POSITIONS HELD

Position	Period	Place
Assistant professor	August 2019 - present	Indian Institute of Information Technology Dharwad
Postdoctoral fellow	August 2018 - July 2019	Indian Institute of Technology Delhi
Senior project officer	May 2019 - July 2019	National Programme on Technology Enhanced Learning (NPTEL), Indian Institute of Technology Madras

RESEARCH INTERESTS

- Social Network Analysis
- Complex Networks
- Applied Graph Theory

TEACHING EXPERIENCE

1. Object oriented programming : Fall 2019 (IIIT Dharwad)
2. Theory of computation : Spring 2020 (IIIT Dharwad)
3. Social network analysis : Spring 2020 (IIIT Dharwad)

ACCEPTANCE

Gupta, Yayati, Debarati Das, and S. R. S. Iyengar. "Pseudo-cores: The terminus of an intelligent viral meme's trajectory." accepted in NetSciX 2016, the primary winter conference in Social Networks.

PUBLICATIONS

1. Singhal, Shivam, Yayati Gupta, and Ashish Garg. "Fluid Dynamics Android Application: An Efficient Semi-Implicit Solver for Compressible Flows." (2019).
2. Gupta, Yayati, S. R. S. Iyengar, Akarti Saxena, and Debarati Das. "Modeling memetics using edge diversity." *Social Network Analysis and Mining* 9, no. 1 (2019): 2.
3. Roy, Pronoy, Yayati Gupta, Prashant Ramawat, and S. R. S. Iyengar. "A longitudinal study of public emotions during demonetization in India." In *Proceedings of the 10th annual meeting of the Forum for Information Retrieval Evaluation*, pp. 52-55. 2018.
4. Gupta, Yayati, Akarti Saxena, Debarati Das, and S. R. S. Iyengar. "Modeling memetics using edge diversity." In *Complex Networks VII*, pp. 187-198. Springer, Cham, 2016.
5. Gupta, Yayati, Debarati Das, and S. R. S. Iyengar. "Pseudo-cores: the terminus of an intelligent viral meme's trajectory." *Complex Networks VII*. Springer, Cham, 2016. 213-226.
6. Gupta, Yayati, et al. "Shifting behaviour of users: Towards understanding the fundamental law of social networks." 2016, *8th International Conference on Communication Systems and Networks (COMSNETS). IEEE, 2016*.
7. Kompala, Neeharika, S. R. S. Iyengar, and Yayati Gupta. "Are We Birds of the Same Feather?." in *Proceedings of the 18th International Conference on Distributed Computing and Networking. ACM, 2017*.
8. Saxena, Akarti, S. R. S. Iyengar, and Yayati Gupta. "Understanding spreading patterns on social networks based on network topology." *Advances in Social Networks Analysis and Mining (ASONAM), 2015 IEEE/ACM International Conference on. IEEE, 2015*.
9. Saxena, Akarti, Jaspal Singh Saini, Yayati Gupta, Aishwarya Parasuram, and S. R. S. Iyengar. "Social network analysis of the caste-based reservation system in india." *arXiv preprint arXiv:1512.03184* (2015).

CONFERENCES/WORKSHOPS ORGANIZED

1. Research Methodology Workshop, IIT, Ropar (2013)
2. Networks and Games workshop, IIT Ropar (2015)
3. Summer school on Social Networks in IIT Ropar (2017)

ACADEMIC ACTIVITIES

1. NPTEL activities:

- Instructor for the NPTEL course on Joy of Computing (January-May 2020) (one of the courses with highest enrollment numbers in NPTEL (Swayam).)
 - Teaching assistant for the NPTEL course on Social Networks (August-December 2017)
 - Teaching assistant for the NPTEL course on Social Networks (January-May 2018)
2. Invited speaker for the Workshop on Graphs and Complex Networks 2020 (WGCN-2020) to be held on 03-07 February 2020 at the Department of Computer Applications, Cochin University of Science and Technology (CUSAT), Kochi, Kerala.
 3. Invited speaker for the workshop on Social Network Analysis in NorthCap University, Gurugram in October 2019
 4. Resource person for two days workshop on social media and data analytics organised as a part of TEQIP-III in March 2019 at Aligarh Muslim University
 5. I have a special interest towards teaching and presenting my research, textbook material as well as popular science books. I have handled many undergraduate and postgraduate classes during PhD as well and have delivered lectures on small world phenomenon, branching process, mitochondrial eve and markov chains.
 6. I have given talks on many popular science books in my institute some of which are “Pleasure of Finding Things Out” by Richard Feynman, “Deep Work” by Cal Newport and “Confessions of a Public Speaker” by Scott Berkun.
 7. I also like recording my presentations. I have created a small advertising video of my research, which can be accessed at <https://www.youtube.com/watch?v=Xr9OGhmXASo>. Another Ted-styled talk of my research ideas can be accessed at <https://www.youtube.com/watch?v=iZpVXziQBbU>.

CONFERENCES/WORKSHOPS ATTENDED

1. Presented two posters in 7th Workshop on Complex Networks in Dijon, France from 23 March 2016 to 25 March 2016.
2. Presented paper titled “Are We Birds of the Same Feather?” in 18th International Conference on Distributed Computing and Networking (ICDCN) in Hyderabad, India.
3. Presented poster on the paper titled “Understanding Spreading Pattern of a Meme using the Structure of Online Social Networks” in “The 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining” in Paris, France.
4. Attended the Research Scholars Congregation organised by Punjab Engineering College and won second prize in poster presentation held there.
5. Attended a workshop on Research Skills in Hong Kong University organised in collaboration with Imperial College, London.
6. Delivered a presentation in Research Methodology Workshop organised in IIT, Ropar.
7. Presented a paper in the Networks and Games workshop organised in IIT Ropar from 7-9 December, 2015.

ACHIEVEMENTS

1. Received director fellowship from 11 August 2017 to 11 October 2017 in IIT Ropar.
2. GATE (Graduate Aptitude Test in Engineering):
 - GATE 2012 qualified(99.3 percentile)
 - GATE 2011 and 2013 qualified (95 percentile).
3. College Merit Scholarship: Awarded with College Merit Scholarship for second rank in Department of Computer Science & Engineering in B.Tech. second year (2009-10).
4. Won gold medal in Chess in inter-college chess competition.
5. Won 6 medals in *Hindi Pakhwada* competitions organized in IIT Ropar.
6. Others
 - Presented a paper on Iris Recognition System in a national conference on data mining and warehousing , organized in the college.
 - IBM certified Database Associate (DB2 9 Fundamentals) and solution designer (RFT for Java). Participated in swarm robotics, a workshop conducted by Technophilia, in collaboration with IIT, Kanpur.

REFERENCES

- Dr. Sudarshan Iyengar
Associate Professor
Department of Computer Science & Engineering
Indian Institute of Technology Ropar
Rupnagar-140 001, INDIA
Email: sudarshan@iitrpr.ac.in
Phone: +91-1881-242239
- Dr. Nitin Auluck
Associate Professor
Department of Computer Science & Engineering
Indian Institute of Technology Ropar
Rupnagar-140 001, INDIA
Email: niin@iitrpr.ac.in
Phone: +91-1881-242136
- Dr. Ralucca Gera
Associate Professor
Department of Applied Mathematics, Naval Postgraduate School
833 Dyer Road Monterey, CA 93943-5216
Email: rgera@nps.edu
Phone: (831) 656-2230