

# Yayati Gupta

## PERSONAL DATA

PLACE AND DATE OF BIRTH: Haryana, India — 15 September 1990  
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## 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%

## RESEARCH INTERESTS

- Social Network Analysis
- Complex Networks
- Applied Graph Theory

## ACCEPTANCE

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

## PUBLICATIONS

1. Gupta, Yayati, et al. "Modeling Memetics Using Edge Diversity." *Complex Networks VII. Springer International Publishing, 2016. 187-198.*
2. Gupta, Yayati, Debarati Das, and S. R. S. Iyengar. "Pseudo-cores: The terminus of an intelligent viral memes trajectory." *Complex Networks VII. Springer International Publishing, 2016. 213-226.*
3. 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.*
4. 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.*
5. Saxena, Akshati, 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.*

## 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.

## 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)

## TEACHING ASSISTANTSHIPS

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1. Fall, 2012 : Architecture of high performance computing
2. Spring, 2013 : Cryptography, Social networks
3. Spring, 2014 : Artificial Intelligence
4. Fall, 2014 : Machine Learning
5. Spring, 2015 : Programming Paradigms
6. Fall, 2015 : Data Structures
7. Spring, 2016 : Introduction to computing
8. Fall, 2016 : Probability and Computing
9. Spring, 2017 : Artificial Intelligence

## ACADEMIC ACTIVITIES

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1. I was a TA for the NPTEL course on Social Networks conducted by IIT Madras (under Dr. S.R.S. Iyengar) for the first semester of 2017-2018 session. As a TA of the course, I have prepared assignments and exam papers. I have also delivered many lectures for the course, link for one of which is : <https://www.youtube.com/watch?v=P-EHKawc-gA>.
2. 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 and have delivered lectures on small world phenomenon, branching process, mitochondrial eve and markov chains.
3. 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.
4. 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>.

## ACHIEVEMENTS

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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

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- Dr. Sudarshan Iyengar  
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Indian Institute of Technology Ropar  
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- Dr. Nitin Auluck  
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