Iqra Altaf Gillani

CONTACT INFORMATION
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RESEARCH INTERESTS
Data Algorithmics, Analysis of Networks, Function Computation, Network and Data Science

EDUCATION

Indian Institute of Technology, Delhi January 2016 - March 2021

Ph.D. in Computer Science and Engineering

- Advised by Prof. Amitabha Bagchi
- CGPA: 9.7 on scale of 10
- Thesis: *A Stochastic Process with a Laplacian Connection*
- Awarded Distinction in Doctoral Research Award for the year 2021

National Institute of Technology, Srinagar August 2011 - June 2015

B.Tech. in Information Technology

- Gold medallist
- CGPA: 9.503 on scale of 10
- Thesis: *Biologically Inspired Algorithm to Provide Energy Efficient Wireless Sensor Networks*

Delhi Public School Srinagar

Class XII (CBSE) with 95.6% March 2011
Class X (CBSE) with 93.4% March 2009

EXPERIENCE

NIT Srinagar: Assistant Professor March 2021 - Present

NIT Srinagar: Trainee Teacher January 2016 - March 2021

IIT Delhi: Teaching Assistant July 2015 - December 2016

PUBLICATIONS

- Sheikh Afaan Farooq, Wajid Ali, **Iqra Altaf Gillani**.
  Depression Prediction: A Clinical Questionnaire and Machine Learning Based Approach.
  In Proc. of 2022 Intl. Conf. on Futuristic Technologies (INCOFT 2022), pp. 1-9, Nov 2022.
- Amitabha Bagchi, **Iqra Altaf Gillani**, Pooja Vyavahare.
  A Stochastic Process on a Network with Connections to Laplacian Systems of Equations.
  Adv. Appl. Probab. 1-25, January 2022.
- Munaza Farooq, Aqsa Ashraf Makhdomi, **Iqra Altaf Gillani**.
  Crowd Sourcing and Blockchain-Based Incentive Mechanism to Combat Fake News.
  Combating Fake News with Computational Intelligence Techniques. Springer, Cham, **1001**: 299-325, January 2022.
- Munaza Farooq, Aqsa Ashraf Makhdomi, **Iqra Altaf Gillani**.
  Blockchain-based Incentive Mechanism to Combat Fake News.
  In Proc. of 2021 Intl. Conf. on Advances in Cyber Security (ACeS 2021), August 2021.
- **Iqra Altaf Gillani**, Amitabha Bagchi.
  A Queueing Network-Based Distributed Laplacian Solver.
  Algorithmica **83**:2859-2894, June 2021.

- **Iqra Altaf Gillani**, Pooja Vyavahare, and Amitabha Bagchi.
  Lower bounds for In-network Computation of Arbitrary Functions.
  Distrib. Comput. **34**:181-193, April 2021.
- Kartik Sharma, **Iqra Altaf Gillani**, Sourav Medya, Sayan Ranu, Amitabha Bagchi.
  Balance Maximization in Signed Networks via Edge Deletions.
  In *Proc. of 14th ACM Intl. Conf. on Web Search and Data Mining (WSDM 2021)*, pp. 752-760, March 2021.
- **Iqra Altaf Gillani**, Amitabha Bagchi.
  A Queueing Network-Based Distributed Laplacian Solver for Directed Graphs.
  Inf. Proc. Lett. **166**:106040, February 2021.
- **Iqra Altaf Gillani**, Amitabha Bagchi, Sayan Ranu.
  A Group-to-Group Version of Random Walk Betweenness Centrality.
  In *Proc. of ACM India Joint Intl. Conf. on Data Science and Management of Data (CODS-COMAD 2021)*, pp. 127-135, January 2021.
- **Iqra Altaf Gillani**, Amitabha Bagchi.
  A Queueing Network-Based Distributed Laplacian Solver.
  In *Proc. of the 32nd ACM Symposium on Parallelism in Algorithms and Architectures (SPAA 2020)*, pp. 535-537, July 2020.
- Zilmarij Iqbal, Rahila Rahim and **Iqra Altaf Gillani**.
  Light-weight, Real-time Internet Traffic Classification.
  In *Proc. of 2019 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS '19)*, pp. 1-6, December 2019.

Academic Services

- Served as reviewer for KDD, AAMAS, CALDAM, CODS-COMAD

Awards and honours

- Ph.D. thesis awarded *Distinction in Doctoral Research Award* at IIT Delhi for the year 2020-2021.
- *Outstanding TA Award* for the course COL106 Data Structures and Algorithms, Sem I 2016-2017 at IIT Delhi
- *Outstanding TA Award* for the course COL216 Computer Architecture, Sem II 2015-2016 at IIT Delhi
- Selected as Trainee Teacher in the Department of Information Technology, NIT Srinagar under MHRD's Teacher Trainee Programme (January 2016)
- Received *Visvesvaraya Ph.D. fellowship* (July 2015 - December 2015)
- Received *Gold Medal* for achieving highest CGPA in B.Tech. Programme
- Selected for *In-Residence Programme for NITs Scholars* at Rashtrapati Bhavan, New Delhi (May 2015)
- Qualified for National level Robotics event *Autobotz-AVR* organized by Technophilia (2012)
- *Student of the Year Award (Batch 2011)* at Delhi Public School, Srinagar (March 2011)
- Won creative writing contest *Think Big* organized by Rising Kashmir (2010)
- Won best *Technical skier Award* at Skiing event, Gulmarg, J&K (2008)

References

Available on request