

Soumyottam Chatterjee

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EDUCATION

- **University of Houston**, Houston, Texas
PhD in Computer Science. [January 2015 – August 2019]
Advisor: Prof. Dr. Gopal Pandurangan.
 - **CGPA:** 3.71
 - **Courses Taken:** *Design and Analysis of Algorithms, Programming Languages, Distributed Network Algorithms, Theory of Computation, Parallel Computations.*
- **Indian Statistical Institute**, Kolkata, India
Master of Technology in Computer Science. [July 2008 – July 2010]
 - **Aggregate Marks:** 78.3%
- **Jadavpur University**, Kolkata, India
Bachelor of Electronics and Tele-Comm. Engineering. [July 2004 – May 2008]
 - **CGPA:** 8.92 (on a 10-point scale)

RESEARCH EXPERIENCE

- **Texas A&M University**, College Station, Texas
Postdoctoral Fellow in Computer Science. [September 2020 – May 2021]
Advisor: Prof. Dr. Jennifer Welch.
 - Worked on implementing *shared* data objects with guaranteed *consistency conditions*.
- **Georgetown University**, Washington, D.C.
Postdoctoral Fellow in Computer Science. [November 2019 – August 2020]
Advisor: Dr. Calvin Newport.
 - Worked on the *Byzantine consensus* problem in distributed, asynchronous systems.

JOURNAL PUBLICATIONS

1. **Soumyottam Chatterjee**, Gopal Pandurangan, and Peter Robinson. *The Complexity of Leader Election in Diameter-Two Networks*, **Distributed Computing**, 2019.

Available on the publisher's website at
<http://link.springer.com/article/10.1007/s00446-019-00354-2>.

2. **Soumyottam Chatterjee** and Shamik Ghosh. *Ferrers Dimension and Boxicity*, **Discrete Mathematics**, 2010.

Available on the publisher's website at
<https://www.sciencedirect.com/science/article/pii/S0012365X1000172X>.

CONFERENCE
PUBLICATIONS

1. **Soumyottam Chatterjee**, Robert Gmyr, and Gopal Pandurangan. *Sleeping is Efficient: MIS in $O(1)$ -rounds Node-averaged Awake Complexity*, The 39th ACM Symposium on Principles of Distributed Computing (**PODC 2020**).

Available on the publisher's website at
<https://dl.acm.org/doi/10.1145/3382734.3405718>.

2. **Soumyottam Chatterjee**, Gopal Pandurangan, and Nguyen Dinh Pham. *Distributed MST: A Smoothed Analysis*, The 21st International Conference on Distributed Computing and Networking (**ICDCN 2020**).

Available on the publisher's website at
<https://dl.acm.org/doi/abs/10.1145/3369740.3369778>.

3. **Soumyottam Chatterjee**, Gopal Pandurangan, and Peter Robinson. *Network Size Estimation in Small-world Networks under Byzantine Faults*, The 33rd IEEE International Parallel & Distributed Processing Symposium (**IPDPS 2019**).

Available on the publisher's website at
<https://ieeexplore.ieee.org/document/8821050>.

4. **Soumyottam Chatterjee**, Reza Fathi, Gopal Pandurangan, and Nguyen Dinh Pham. *Fast and Efficient Distributed Computation of Hamiltonian Cycles in Random Graphs*, The 38th IEEE International Conference on Distributed Computing Systems (**ICDCS 2018**).

Available on the publisher's website at
<https://ieeexplore.ieee.org/document/8416342>.

5. **Soumyottam Chatterjee**, Gopal Pandurangan, and Peter Robinson. *The Complexity of Leader Election: A Chasm at Diameter Two*, The 19th International Conference on Distributed Computing and Networking (**ICDCN 2018**). (**Was nominated for the best paper award.**)

Available on the publisher's website at
<https://dl.acm.org/citation.cfm?id=3154308>.

MANUSCRIPTS IN
PREPARATION

1. **Soumyottam Chatterjee**, Calvin C. Newport, and Peter Robinson. *Byzantine Fault-Tolerant Consensus with an Abstract MAC Layer*.

2. Aditya Biradavolu, **Soumyottam Chatterjee**, Dariusz R. Kowalski, and Jennifer L. Welch. *Tradeoff Algorithms for Simulating Multivalued Registers from Binary Registers*.
3. John Augustine, **Soumyottam Chatterjee**, Robert Gmyr, and Gopal Pandurangan. *Secure, Robust, and Efficient Distributed Computation in Dynamic Peer-to-peer Networks*.
4. **Soumyottam Chatterjee**, Gopal Pandurangan, and Peter Robinson. *Keeping Score against Evildoers: Byzantine-Resilient Counting in Networks*.

PROFESSIONAL
SERVICES

- Served as a program committee member at the 22nd International Conference on Distributed Computing and Networking (**ICDCN 2021**).
- Served as a sub-reviewer at
 1. The 21st International Conference on Distributed Computing and Networking (**ICDCN 2020**).
 2. The 46th International Colloquium on Automata, Languages and Programming (**ICALP 2019**).
 3. The 39th IEEE International Conference on Distributed Computing Systems (**ICDCS 2019**).
 4. The 33rd IEEE International Parallel & Distributed Processing Symposium (**IPDPS 2019**).
 5. The 20th International Symposium on Stabilization, Safety, and Security of Distributed Systems (**SSS 2018**).
 6. The 32nd International Symposium on Distributed Computing (**DISC 2018**).
 7. The 25th International Colloquium on Structural Information and Communication Complexity (**SIROCCO 2018**).
 8. The 30th ACM Symposium on Parallelism in Algorithms and Architectures (**SPAA 2018**).
 9. The 38th IEEE International Conference on Distributed Computing Systems (**ICDCS 2018**).
 10. The 29th ACM-SIAM Symposium on Discrete Algorithms (**SODA 2018**).
 11. The 13th International Symposium on Algorithms and Experiments for Wireless Networks (**ALGOSENSORS 2017**).

AWARDS AND
SCHOLARSHIPS

1. Recipient of the *outstanding doctoral dissertation award* at the Department of Computer Science at **University of Houston**. [2019]

2. Nominated for the *best paper award* at the 19th International Conference on Distributed Computing and Networking (**ICDCN 2018**) for the paper *The Complexity of Leader Election: A Chasm at Diameter Two*. [2018]
3. Recipient of the *NBHM PhD Fellowship in Mathematics*, awarded by the **Government of India**, for showing strong depth and breath of knowledge in Mathematics and outstanding research potential in the same. [2010]
4. Recipient of Prize Money for ranking 2nd in the 1st year 2nd semester examination in **M. Tech. at Indian Statistical Institute - Kolkata**. [2009]
5. Recipient of Prize Money for ranking 1st in the 1st year 1st semester examination in **M. Tech. at Indian Statistical Institute - Kolkata**. [2008]

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