

# Shreyas Pai

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CONTACT INFORMATION	E-mail: shreyaspai24@gmail.com Phone: +91 983 366 9064 (M) Website: <a href="http://shreyaspai.com">http://shreyaspai.com</a>
RESEARCH INTERESTS	My research interests are in Theoretical Computer Science, more specifically in Distributed Algorithms, Communication Complexity, and Combinatorial Optimization.
EDUCATION	<b>PhD and MS in Computer Science</b> <b>2016–2021</b> <i>The University of Iowa</i> Iowa City, USA Advisor: Prof. Sriram V. Pemmaraju. CGPA: 4.07/4  <b>B.Tech in Computer Engineering</b> <b>2012–2016</b> <i>Veermata Jijabai Technological Institute</i> Mumbai, India CGPA: 8.13/10
PROFESSIONAL EXPERIENCE	<ul style="list-style-type: none"><li>◇ Postdoc at <i>Aalto University</i>, Finland August 2021 – present Host: Jara Uitto.</li><li>◇ Research Intern at <i>Technion Israel Institute of Technology</i> May – July 2019 Host: Keren Censor-Hillel.</li><li>◇ Research Intern at <i>Indian Institute of Science</i>, Bangalore May – July 2016 Host: Siddharth Barman</li></ul>
FELLOWSHIPS	<ul style="list-style-type: none"><li>◇ Ballard Seashore Fellowship, Spring 2021</li><li>◇ Graduate College Summer Fellowship, Summer 2020 and 2019</li><li>◇ Graduate College Post Comprehensive Fellowship, Fall 2019</li></ul>
TEACHING EXPERIENCE	<ul style="list-style-type: none"><li>◇ CS:4330 Theory of Computation, Teaching Assistant, Spring 2020</li><li>◇ CS:3330 Algorithms, Section 2, Instructor, Spring 2017 (<a href="https://homepage.cs.uiowa.edu/~sriram/3330/spring17">https://homepage.cs.uiowa.edu/~sriram/3330/spring17</a>)</li><li>◇ CS:1210 Computer Science 1: Fundamentals, Teaching Assistant, Fall 2016</li></ul>
PUBLICATIONS	<ul style="list-style-type: none"><li>◇ <i>Risk-aware Temporal Cascade Reconstruction to Detect Asymptomatic Cases</i>, in ICDM 2021 Hankyu Jang, Shreyas Pai, Bijaya Adhikari, and Sriram Pemmaraju.</li><li>◇ <i>Can we Break Symmetry with <math>o(m)</math> Communication?</i> in PODC 2021 with Gopal Pandurangan, Sriram Pemmaraju, and Peter Robinson.</li><li>◇ <i>Sample-and-Gather: Fast Ruling Set Algorithms in the Low-Memory MPC Model</i>, in FSTTCS 2020 with Kishore Kothapalli and Sriram Pemmaraju.</li><li>◇ <i>Distributed Approximation on Power Graphs</i>, in PODC 2020 with Reuven Bar-Yehuda, Keren Censor-Hillel, Yannic Maus, and Sriram Pemmaraju.</li><li>◇ <i>Spatiotemporal clustering of in-hospital Clostridioides difficile infection</i>, in Infection Control &amp; Hospital Epidemiology 2019 Shreyas Pai, Philip Polgreen, Alberto Segre, Daniel Sewell, and Sriram Pemmaraju.</li></ul>

- ◇ *A Constant Approximation for Colorful  $k$ -Center*, in ESA 2019  
with Sayan Bandyapadhyay, Tanmay Inamdar, and Kasturi Varadarajan.
- ◇ *Connectivity Lower Bounds in the Broadcast Congested Clique*, in PODC 2019 (BA) and FSTTCS 2020  
with Sriram Pemmaraju.
- ◇ *Large-Scale Distributed Algorithms for Facility Location with Outliers*, in OPODIS 2018  
with Tanmay Inamdar, and Sriram Pemmaraju.
- ◇ *Near Optimal Clustering in the  $k$ -machine model*, in ICDCN 2018  
with Sayan Bandyapadhyay, Tanmay Inamdar, and Sriram Pemmaraju.
- ◇ *Symmetry Breaking in the Congest Model: Time- and Message-Efficient Algorithms for Ruling Sets*, in PODC 2017 (BA) and DISC 2017  
with Gopal Pandurangan, Sriram Pemmaraju, Talal Riaz, and Peter Robinson.

#### ACADEMIC SERVICE

##### **Conference Reviewer:**

ACM-SIAM Symposium on Discrete Algorithms (SODA), ACM Symposium on Principles of Distributed Computing (PODC), ACM Symposium on Parallelism in Algorithms and Architecture (SPAA), International Symposium on Distributed Computing (DISC), International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS), Foundations of Software Technology and Theoretical Computer Science (FSTTCS), International Conference on Distributed Computing and Networking (ICDCN).

##### **Journal Reviewer:**

Distributed Computing (DIST)

##### **Program Committee Member:**

International Conference on Distributed Computing and Networking (ICDCN) 2022.