

Swapnil Gandhi

Indian Institute of Science, Bangalore
gandhis@iisc.ac.in • +91 985-030-4736 • <https://swapnilgandhi.com/>

EDUCATION

Indian Institute of Science, Bangalore

Aug 2017 – Jan 2020

- M.Tech (Research), Department of Computational and Data Sciences (CDS)
- Advisor: Prof. Yogesh Simmhan
- Thesis : Distributed Programming Abstraction for Scalable Processing of Temporal Graphs
- CGPA: 9.2 / 10.0 (Ranked 1st)
- Selected coursework: Scalable Systems for Data Science, Topics in Database Systems, Database Management Systems, Linear Algebra and Applications, Introduction to Scalable Systems.

Bharati Vidyapeeth, Pune

Jul 2010 – Jun 2014

- B.Tech in Computer Engineering
- Thesis : Mutation Testing Tool for C Programs
- Graduated with Department Honors

WORK EXPERIENCE

Research Intern, Microsoft Research, India

Mar 2020 – Present

Operations Engineer, PubMatic, India

Jun 2014 – Jul 2016

- Worked on reporting and ad-hoc data processing pipeline using Apache Spark, Storm, Hadoop, Hive, and Pig Latin.

Research Intern, TRDDC, India

Sep 2013 – Apr 2014

- Worked under the mentorship of Prasad Bokil, Ulka Shrotri, and R. Venkatesh on building Mutation Testing Tool for C Programs.

PUBLICATIONS

[Papers & Posters available [here](#).]

CONFERENCES

- [1] [S. Gandhi](#), and Y. Simmhan, “An Interval-centric Model for Distributed Computing over Temporal Graphs”, 2020 IEEE 36th International Conference on Data Engineering (ICDE), Dallas, Texas.

POSTERS

- [1] [S. Gandhi](#), “Wave : A Substrate for Distributed Incremental Graph Processing on Commodity Clusters”, ACM *Student Research Competition* (SRC) at 27th Symposium on Operating Systems Principles (SOSP), Ontario, Canada, Oct 2019.
- [2] [S. Gandhi](#), S. Sarkar, A. Sharma, and Y. Simmhan, “Distributed Querying over Compressed Property Graphs”, *Student Research Symposium* at 24th IEEE International Conference on High Performance Computing, Data and Analytics (HiPC), Jaipur, India, Dec 2017.

AWARDS & FELLOWSHIPS

- Bronze Medal, ACM Student Research Competition (Graduate Category), at 27th Symposium on Operating Systems Principles (SOSP) in Ontario, Canada. Oct 2019
- Won 12th IEEE International TCSC Scalable Computing (SCALE) Challenge For “Dynamic Scaling of Video Analytics for Wide-area Tracking in Urban Spaces”. May 2019
- Best Poster Award, EECS Research Students Symposium, IISc Bangalore For “Distributed Processing Model For Temporal Graphs” at the 10th EECS Research Students Symposium. Apr 2019
- Invited to attend 3rd RIKEN R-CCS HPC Youth Workshop, Kobe, Japan Feb 2019
- Best Student Research Symposium Poster, IEEE HiPC, Jaipur, India For “Distributed Querying over Compressed Property Graphs”. Dec 2017
- Department Honors, Bharati Vidyapeeth, Pune For outstanding academic performance (Batch 2010 – 2014). Jun 2014
- TCS Popular Student Project, Bharati Vidyapeeth, Pune May 2014
- Best Undergraduate Project Award, TRDDC Annual Students Day, Pune For “Mutation Testing Tool for C Programs”. Apr 2014

SERVICE & LEADERSHIP	▪ Artifact Evaluation Committee (AEC) member for ASPLOS 2020	Dec 2019
	▪ Artifact Evaluation Committee (AEC) member for SOSP 2019	Aug 2019
	▪ Treasurer and General Secretary for IISc ACM Student Chapter	Apr 2019 – Mar 2020
	▪ Web Chair, Doctoral Symposium ICDCN 2019, Bangalore	Aug 2018
TEACHING & LECTURES	▪ Graduate Teaching Assistant, Indian Institute of Science	Jan 2019
	TA for DS 256: Scalable Systems for Data Science with Prof. Yogesh Simmhan. Handled weekly discussion sections, homework assignments and helped with class projects (≈ 10 students).	
	▪ E0 261: Database Management Systems	Oct 2018
	Covered lecture on Google's Spanner and Apache Giraph. (≈ 30 students).	
TRAVEL GRANTS	SOSP'19, HiPC'19, COMAD'19, HiPC'18, HiPC'17	
REFERENCES	Available upon request.	

[CV compiled on 2020-03-02]