

Swapnil Gandhi

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

RESEARCH INTERESTS	Scalable temporal-graph processing, leveraging programmable dataplane switches and smart NICs to support data-intensive systems	
EDUCATION	Indian Institute of Science, Bangalore, India <ul style="list-style-type: none">Studying towards Masters in Computer and Data Systems Jul 2017 – Present<ul style="list-style-type: none">Cumulative GPA: 9.2 / 10.0 (Ranked 1st)Bharati Vidyapeeth, Pune, India<ul style="list-style-type: none">Bachelors in Computer Science and Engineering Jul 2010 – Jun 2014<ul style="list-style-type: none">Graduated with Department HonorsThesis : Mutation Testing Tool for C Programs	
RESEARCH EXPERIENCE	Indian Institute of Science, Bangalore – Prof. Yogesh Simmhan Jun 2017 – Present <ul style="list-style-type: none">Design and implementation of distributed temporal graph processing system TATA Research Development and Design Center, (TRDDC), India Sep 2013 – Apr 2014 <ul style="list-style-type: none">Research Intern – Prasad Bokil, Researcher<ul style="list-style-type: none">Designed and implemented tool for generating and evaluating quality of structural test cases for C Programs.Co-Supervisors: Ulka Shrotri, R. Venkatesh	
PUBLICATIONS	POSTER <ul style="list-style-type: none">[1] S. Gandhi, and Y. Simmhan, “From ‘Think Like a Vertex’ to ‘Think Like an Interval’”, <i>Young Researcher’s Symposium</i> at ACM India Joint International Conference on Data Science and Management of Data (6th ACM IKDD CoDS and 24th COMAD), Kolkata, India, Jan 2019.[2] S. Gandhi, S. Sarkar, A. Sharma, and Y. Simmhan, “Distributed Querying over Compressed Property Graphs”, <i>Student Research Symposium</i> at 24th IEEE International Conference on High Performance Computing, Data and Analytics (HiPC), Jaipur, India, Dec 2017.	
AWARDS & FELLOWSHIPS	<ul style="list-style-type: none">Won 12th IEEE International TCSC Scalable Computing (SCALE) Challenge May 2019<ul style="list-style-type: none">For “Dynamic Scaling of Video Analytics for Wide-area Tracking in Urban Spaces”Best Poster Award, EECS Research Students Symposium, Bangalore, India Apr 2019<ul style="list-style-type: none">For “Distributed Processing Model For Temporal Graphs” at the 10th EECS Research Students SymposiumInvited to attend 3rd RIKEN R-CCS HPC Youth Workshop, Kobe, Japan Feb 2019Best Student Research Symposium Poster, HiPC, Jaipur, India Dec 2017Department Honors, Bharati Vidyapeeth, Pune, India Jun 2014<ul style="list-style-type: none">For outstanding academic performance (Batch 2010 – 2014)TCS Popular Student Project, Bharati Vidyapeeth, Pune, India May 2014Best Undergraduate Project Award, TRDDC, Pune, India Apr 2014<ul style="list-style-type: none">For “Mutation Testing Tool for C Programs” at TRDDC Annual Students Day	
TEACHING, LECTURES & SERVICE	<ul style="list-style-type: none">Artifact Evaluation Committee member of the SOSP 2019 Aug 2019DS 256: Scalable Systems for Data Science Jan 2019<ul style="list-style-type: none">As Teaching Assistant with Prof. Yogesh SimmhanE0 261: Database Management Systems Oct 2018<ul style="list-style-type: none">Lecture on Big Data SystemsWeb Chair, Doctoral Symposium ICDCN 2019, Bangalore, India Aug 2018	
WORK EXPERIENCE	PubMatic, India <ul style="list-style-type: none">Big Data Operations Developer Jun 2014 – Jul 2016<ul style="list-style-type: none">Worked on design and implementation of reporting and ad-hoc data pipelines for processing several TeraBytes of raw data flowing through PubMatic platform using Apache Spark, Storm, Casandra, Hive and MapReduce.	

[CV compiled on 2019-08-02]