

EDUCATION

University of South Florida Ph.D. in Computer Science and Engineering, GPA: 4.0 – Advisor: Dr. Paul Rosen – Dissertation Title: “Constructing Framework for Task-Optimized Visualization” – Committee Members: Shaun Canavan, John Licato, Mahshid Naeini, Brenton Wiernik. M.S in Computer Science, GPA: 4.0	Tampa, FL 2015 –2021
University of Mumbai B.E. in Computer Engineering, GPA: 3.8	Mumbai, India 2009 –2012

RESEARCH INTEREST

- **Visualization:** Information Visualization, Visualization Design, Design Optimization
- **Human-Computer Interaction:** Information Design

EXPERIENCE

Postdoctoral Research Associate Department of Computer Science, University of North Carolina-Chapel Hill Advisor: Dr. Danielle Albers Szafir	2022 –Present Chapel Hill, NC
Graduate Research Assistant Graphics and Visualization Lab, University of South Florida Advisor: Dr. Paul Rosen	2017 –2021 Tampa, FL
Graduate Teaching Assistant Computer Science and Engineering, University of South Florida	2017 –2021 Tampa, FL
NSF Innovation Corps Cohort University of South Florida	Summer 2017 Tampa, FL
Software Engineering Intern LeapDoctor.com	Fall 2016 Tampa, FL
System Engineer Infosys Limited	2013 –2015 Pune, India
Lecturer M.H. Saboo Siddik Polytechnic	2012 –2013 Mumbai, India
Undergraduate Research Intern Tata Institute of Fundamental Research	Fall 2011 Mumbai, India

AWARDS & HONORS

- CRA-NSF: 2021 Computing Innovation Fellow 2022
- Dissertation Completion Fellowship - University of South Florida Summer 2021
- Doctoral Colloquium - IEEE VIS 2020
- ACM Richard Tapia Conference - Tableau Tapia Scholar 2020
- Indeevar and Srinath Memorial Scholarship - College of Engineering 2020 –2021
- Spirit of Innovation Award - College of Engineering 2019 –2020
- IEEE VAST Challenge Honorable Mention 2017

JOURNAL PUBLICATIONS

- [1] **Quadri, Ghulam Jilani** and P. Rosen, “A survey of perception-based visualization studies by task”, *IEEE Transactions on Visualization and Computer Graphics*, 2021.
- [2] **Quadri, Ghulam Jilani** and P. Rosen, “Modeling the influence of visual density on cluster perception in scatterplots using topology”, *IEEE Transactions on Visualization and Computer Graphics*, vol. 27, no. 2, pp. 1829–1839, 2020.
- [3] P. Rosen and **Quadri, Ghulam Jilani**, “Linesmooth: An analytical framework for evaluating the effectiveness of smoothing techniques on line charts”, *IEEE Transactions on Visualization and Computer Graphics*, vol. 27, no. 2, pp. 1536–1546, 2020.

CONFERENCE PUBLICATIONS

- [1] **Quadri, Ghulam Jilani** and P. Rosen, “You can’t publish replication studies (and how to anyways)”, in *In Proceedings of VIS’19: IEEE Conference on Visualization. Workshop on Vis X Vision*, 2019.
- [2] S. Malla, A. Tuladhar, **Quadri, Ghulam Jilani**, and P. Rosen, “Multi-spectral satellite image analysis for feature identification and change detection vast challenge 2017: Honorable mention for good facilitation of single image analysis”, in *2017 IEEE Conference on Visual Analytics Science and Technology (VAST)*, 2017.
- [3] **Quadri, Ghulam Jilani**, A. Tuladhar, S. Malla, and P. Rosen, “Isual analytic design for characterizing air-sampling sensor performance and operation”, in *2017 IEEE Conference on Visual Analytics Science and Technology (VAST)*, 2017.
- [4] A. Tuladhar, S. Malla, **Quadri, Ghulam Jilani**, and P. Rosen, “Data aggregation and visualization technique for traffic sensor data”, in *2017 IEEE Conference on Visual Analytics Science and Technology (VAST)*, 2017.

PREPRINTS & UNDER SUBMISSION

1. **G.J. Quadri**, P.Rosen, and D.Szafir “A One-Stop Solution to Overdraw in Scatterplot”, *IEEE VIS Conference, 2022 (Under preparation)*
2. **G.J. Quadri**, J. Adorno, B. Wiernik and P.Rosen, “Automatic Scatterplot Design Optimization for Clustering Identification”, *IEEE Transactions of Visualization and Computer Graphics (TVCG), 2022 (Under submission)*
3. **G.J. Quadri**, J. Adorno and P.Rosen, “A Visual Design Study on Variations Observed in Accelerometers Across Devices”, *Under Preparation*
4. C.J. Alvarado, **G.J. Quadri**, J. Adorno, P.Rosen, and Miguel Labrador “Analysis of Accelerometer Data for Cross-Device Algorithm Support”, *USF Research Experiences for Undergraduates (REU) at Ubiquitous Sensing Lab, Summer 2019*

POSTERS & PRESENTATIONS

Modeling the Influence of Visual Density on Cluster Perception <i>IEEE VIS- InfoVis track, Salt Lake City (virtual)</i> [Accepted Conference Paper Presentation]	Oct. 2020
Doctoral Colloquium <i>IEEE VIS, Salt Lake City (virtual)</i> [Accepted Doctoral Proposal Presentation]	Oct. 2020
Modelling Effective Visualization Using Graphical Encoding Perception <i>Computer Science and Engineering Department, University of South Florida</i> [Major Area Presentation for Dissertation Proposal]	Fall 2019
You Can't Publish Replication Studies (and How to Anyways) <i>Vis X Vision workshop at IEEE VIS, Vancouver</i> [Accepted Workshop Paper Presentation]	Oct. 2019
Flit-Path Industry and Research Shadow Experience <i>Computer Science and Engineering Department, University of South Florida</i>	Fall 2018
Modeling Cluster Multi-factor Perception in Scatterplots Using Merge Trees <i>IEEE VIS, Berlin, [Accepted Workshop Lightning Talk Presentation]</i>	Oct. 2018
MultiSpectral Satellite Image Analysis for Feature Identification & Detection <i>IEEE VIS, Phoenix</i> [Accepted VAST Challenge Presentation: Honorable Mention Award]	Oct. 2017

TEACHING

- **Teaching Assistant** at University of South Florida 2017 –2021
Interactive Data Visualization (CIS4930/6930) with 45 students, Spring 2021
Computer Organization (CDA3103) with 60 students, Summer 2020
Computer Info Networks (CNT4104) with 58 students, Spring 2020
Malware Analysis & Reverse Engineering (COP4931) with 50 students, Spring 2020
Data Visualization (CIS4930/6930) with 50 students, Spring 2018 & 2019
Object Oriented Programming (COP2513) with 90 students, Spring 2019
Principle of Computer Architecture (EEL6764) with 60 students, Fall 2017
Analysis of Algorithm (COT4400) with 45 students, Summer 2016
- **Instructor** at University of South Florida Summer 2017
User-level Linux Intro to IT (COP3353) with 61 students
- **Lecturer** at M.H.S.S. Polytechnic, Mumbai, India 2012 –2013
Computer Fundamentals with 50 students (3 sections), Fall 2012.
Computer Graphics with 40 students, Fall 2012
Object Oriented Programming with 40 students, Spring 2013

LEADERSHIP

Tau Beta Pi, FL-G Executive Board, University of South Florida	2017 –2019
Literature Club President, University of South Florida	2017 –2019
Engineering Expo Expo Club Director, University of South Florida	2018 –2020

SERVICE

- **Service** at University of South Florida 2017 –2021
Mentor for Research Experience for Undergraduate (REU), Summer 2019
Student Academic Integrity Committee, 2019 - 2020
- **Review** 2019 –Present
ACM Conference on Human Factors in Computing (ACM CHI) (2022, 2021, 2020)
IEEE Transactions on Visualization and Computer Graphics (IEEE TVCG) (2022)
IEEE Visualization Conference (IEEE VIS) (2021, 2020)
Eurographics Conference on Visualization (EuroVis) (2021, 2020)
- **Student Volunteering** 2017 –Present
Student Volunteer Day Captain at ACM Conference on Human Factors in Computing(ACM CHI) (2021)
Student Volunteer Day Captain at IEEE Visualization Conference (IEEE VIS) (2019 - 2021)
Student Volunteer at IEEE Visualization Conference (IEEE VIS) (2017 - 2021)

GRANTS

- **Dissertation Completion Fellowship Grant** at University of South Florida Summer 2021
\$8000 awarded from Office of Graduate School for Dissertation Completion.
- **Doctoral Colloquium Travel Grant** at IEEE-VIS 2020
Travel and Attendance award for Doctoral Colloquium.
- **ACM Richard Tapia Conference Travel Grant** 2020
ACM Richard Tapia Celebration of Diversity in Computing.
- **International Travel Grant** at University of South Florida 2019
\$1500 from Office of Graduate School for international travel to attend IEEE-VIS conference.
- **NSF I-Corp** at University of South Florida 2017
Funding of \$4000 for working towards for ride-share load matching patent business implementation.

DEVELOPMENT

- Professional Development Workshop 2021
- Graduate Communication Boot Camp - University of South Florida 2021
- Summer Grant Writing Workshop - University of South Florida 2020
- Preparing for College Teaching - University of South Florida 2018
- ATLE Teaching Assistant Training - University of South Florida 2018, 2017