Arjun Srinivasan

470 16th Street NW, Apt 1032, Atlanta, Georgia 30318, USA
arjun010@gatech.edu • +1 (678) 467-4938 • http://arjun010.github.io/

SUMMARY

I am a fourth year Ph.D. student pursuing Computer Science at Georgia Tech. As part of my research, I design intelligent and expressive tools that combine multimodal input (e.g. speech and touch) and mixed-initiative interface techniques for human-data interaction through visualizations.

EDUCATION

Georgia Institute of Technology, Atlanta, Georgia, USA
- Ph.D. in Computer Science — Aug 2016 – Present
  Research areas: Human-Computer Interaction, Information Visualization
  Advisor: Dr. John Stasko
- M.S. in Computer Science — Aug 2014 – May 2016
  Specialization: Visual Analytics
  Cumulative GPA: 3.83 / 4.0

R.V. College of Engineering, Bangalore, Karnataka, India
- B.E. in Information Science — Aug 2009 – Jun 2013
  Cumulative GPA: 8.68 / 10.00

EXPERIENCE

Microsoft Research, Redmond, Washington, USA
Research Intern, Mentor: Dr. Bongshin Lee — May 2019 – Aug 2019

Developed multimodal interfaces for data visualization with the EPIC (Extended Perception, Interaction & Cognition) Research Group.

Adobe Research, Seattle, Washington, USA
Research Intern, Mentor: Dr. Mira Dontcheva — May 2018 – Aug 2018

Explored user interface techniques to enhance discoverability of speech input in multimodal interfaces.

Microsoft Research, Redmond, Washington, USA
Research Intern, Mentor: Dr. Steven Drucker — May 2017 – Aug 2017

Designed and evaluated techniques to facilitate visual comparison in data visualization dashboards.

Salesforce.com, San Francisco, California, USA
Software Engineering Intern, Analytics Cloud — May 2015 – Aug 2015, May 2016 – Aug 2016

Developed a visualization system for real-time monitoring and diagnosis of service queues across data centers in a multi-tenant cloud architecture.

SAP Labs India, Bangalore, Karnataka, India
Associate Developer, SAP HANA Cloud Integration — Jul 2013 – Apr 2014

Worked on R&D of Business Process Integration solutions on the cloud. Focused on developing proof of concept solutions for database refactoring and database migration.

PUBLICATIONS

JOURNAL/ CONFERENCE

A. Srinivasan, S.M. Drucker, A. Endert, and J. Stasko. "Augmenting Visualizations with Interactive Data Facts to Facilitate Interpretation and Communication." *IEEE Transactions on Visualization and Computer Graphics*, 2019.

A. Srinivasan, M. Dontcheva, E. Adar, and S. Walker. "Discovering Natural Langauge Commands in Multimodal Interfaces." *ACM Conference on Intelligent User Interfaces (IUI)*, 2019.

A. Srinivasan and J. Stasko. "Orko: Facilitating Multimodal Interaction for Visual Exploration and Analysis of Networks." *IEEE Transactions on Visualization and Computer Graphics*, 2018.

A. Srinivasan and J. Stasko, "Natural Language Interfaces for Data Analysis with Visualization: Considering What Has and Could Be Asked", *Proceedings of EuroVis*, 2017.

A. Srinivasan, H. Park, A. Endert, and R. Basole. "Graphiti: Interactive Specification of Attribute-based Edges for Network Modeling and Visualization." *IEEE Transactions on Visualization and Computer Graphics*, 2018.

A. Srinivasan, M. Brehmer, B. Lee and S. Drucker. "What's the Difference?: Evaluating Variants of Multi-Series Bar Charts for Visual Comparison Tasks." *ACM Conference on Human Factors in Computing Systems (CHI)*, 2018.

F. Hohman*, A. Srinivasan*, S.M. Drucker. "TeleGam: Combining Visualization and Verbalization for Interpretable Machine Learning." *IEEE Visualization Conference (VIS) Short Papers*, 2019. *equal contribution.

B. Lee, A. Srinivasan, J. Stasko, M. Tory, and V. Setlur. "Multimodal Interaction for Data Visualization." *International Conference on Advanced Visual Interfaces (AVI) Workshop*, 2018.

M. Agarwal, A. Srinivasan, J. Stasko. "VisWall: Visual Data Exploration Using Direct Combination on Large Touch Displays." *IEEE Visualization Conference (VIS) Short Papers*, 2019.

J. Thompson, A. Srinivasan, and J. Stasko. "Tangraphe: Interactive Exploration of Network Visualizations using Single Hand, Multi-touch Gestures." *International Conference on Advanced Visual Interfaces (AVI) Short Papers*, 2018.

R. Basole, A. Srinivasan, H. Park, and S. Patel. "ecoxight: Discovery, Exploration and Analysis of Business Ecosystems using Interactive Visualization." *ACM Transactions on Management Information Systems (TMIS)*, 2018

B. Saket, A. Srinivasan, E. Ragan, and A. Endert, "Evaluating Interactive Graphical Encodings for Data Visualization", *IEEE Transactions on Visualization and Computer Graphics*, 2017.

R. Basole, T. Major, and A. Srinivasan "Understanding Alliance Portfolios using Visual Analytics", *ACM Transactions on Management Information Systems, Vol. 8, No. 2, Article 1*, 2017.

WORKSHOPS

A. Srinivasan, B. Lee, and J. Stasko. "Facilitating Spreadsheet Manipulation on Mobile Devices Leveraging Speech", *Data Visualization on Mobile Devices workshop at CHI 2018*, 2018."

SB. Karthik, A. Srinivasan, N. Elmqvist, and J. Stasko. "Affordances of Input Modalities for Visual Data Exploration in Immersive Environments", *IEEE VIS Workshop on Immersive Analytics*, 2017."

R. Basole, T. Major, and A. Srinivasan, "Sequencing the Enterprise Genome: Interactive Visual Analysis of Multi-Dimensional Alliance Activities of Global Enterprises.", *IEEE VIS business|vis*, 2015.

POSTERS

A. Das, A. Srinivasan, and J. Stasko, "CricVis: Interactive Visual Exploration and Analysis of Cricket Matches", *IEEE VIS*, 2017.

A. Srinivasan, and J. Stasko, "NL4DV: Toolkit for Natural Language Driven Data Visualization", *IEEE VIS*, 2016.

TECHNICAL SKILLS

Programming Languages
  Most experienced with: JavaScript, Python, HTML/CSS, Java, SQL
  Familiar with: Node.js, R, C#, C++
  Dabbled in: C, PHP, Perl, Processing
Libraries/Frameworks
  d3.js, numpy, NLTK, scipy, jQuery, Flask, Express

ACHIEVEMENTS / AWARDS	Georgia Tech College of Computing "Outstanding Graduate Research Assistant" Award.	2018
	Winner of Salesforce.com's Analytics Innovation Challenge.	2016
	National finalist of Walmart's Collegiate Innovators Challenge.	2014
	SAP Global Peer Recognition award.	2013
	Winner (1st place) of SAP Osmosis.	2013
	National finalist (1st runner-up) of SAP BizTech.	2012
	Winner of Microsoft India's Windows 8 hackathon.	2012
	National finalist of SAP Dashboard Design Challenge.	2011

ACADEMIC SERVICE

Awarded Special Recognition for Outstanding Reviews
 EuroVis 2019, MobileHCI 2019
Organization Committee
 AVI 2018 Workshop on Multimodal Interaction For Data Visualization
Program Committee
 2nd Workshop on Visualization for AI Explainability (VISxAI) at IEEE VIS 2019
 KDD 2018 Workshop on Interactive Data Exploration and Analytics (IDEA)
Reviewer 2016-Present
 IEEE VIS, ACM CHI, ACM UIST, ACM ISS, EuroVis, MobileHCI, IEEE CG&A
Teaching Assistant
 CS7450 Information Visualization Fall 2018
 CS8803 Data Visualization: Principles & Applications Spring 2017

LEADERSHIP/ TECHNICAL EVANGELISM	Board Member, India Club at Georgia Tech	2017
	Salesforce.com Campus Brand Ambassador	2016-2017
	Georgia Tech Career Fair Liason	2014
	SAP Student Ambassador (1st student selected globally)	2013-2015
	Member of the Microsoft India App Review Board	2013-2014
	Microsoft Student Partner	2011-2013
	Joint Secretary for the Rotaract Club of RVCE	2011-2012