

Arjun Srinivasan

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SUMMARY

I am a third year PhD student pursuing Computer Science at Georgia Tech. My research focuses on combining natural user interfaces (particularly, natural language and touch) and mixed-initiative interaction for data analysis with visualization.

EDUCATION

Georgia Institute of Technology, Atlanta, Georgia, USA

- Ph.D. in Computer Science

Aug 2016 – Present

Research areas: Information Visualization, Natural User Interfaces

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

Adobe Research, Seattle, Washington, USA

Research Intern, Mentor: Dr. Mira Dontcheva

May 2018 – Aug 2018

Explored user interface techniques to enhance discoverability of natural language input.

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.

GoToPal Inc. (now Calicom Inc.), Bangalore, Karnataka, India

Research Intern, Mentor: Ram Chellamuthu

Jun 2012 – Aug 2012

Worked on combining concepts from natural language processing and artificial intelligence to develop web-based intelligent personal assistants.

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*, Jan 2019. (To appear)

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

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)*, Jun 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)*, Apr 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)*, Apr 2018

A. Srinivasan and J. Stasko. “Orko: Facilitating Multimodal Interaction for Visual Exploration and Analysis of Networks.” *IEEE Transactions on Visualization and Computer Graphics*, Jan 2018 (presented at IEEE VIS ’17).

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*, Jan 2018 (presented at IEEE VIS ’17).

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

B. Saket, A. Srinivasan, E. Ragan, and A. Endert, “Evaluating Interactive Graphical Encodings for Data Visualization”, *IEEE Transactions on Visualization and Computer Graphics*, Mar 2017 (presented at IEEE VIS ’17).

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, Aug 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*, May 2018. (To appear)”

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*, Oct 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|15*, Oct 2015.

POSTERS

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

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

SELECT PROJECTS

ecoxight: Visual Analysis of Multivariate, Temporal Networks

Aug 2014 – May 2016

A web-based platform for visual exploration and analysis of multivariate, temporal graph networks commonly encountered during ecosystem analysis. (<https://ecoxight.com/>)

Advisor: Dr. Rahul Basole

PUNGA: A Visual Analytics System for Exploring Text Documents

Jan 2015 – May 2015

A web-based visual analytics system for investigative analysis of collections of text documents using multiple visualizations and coordinated views. (<https://punga.herokuapp.com/>)

Advisor: Dr. Alex Endert

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

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|---|---|--------------|
| ACHIEVEMENTS / AWARDS | Georgia Tech College of Computing “Outstanding Graduate Research Assistant” Award | USA, 2018 |
| | Winner of Salesforce.com’s Analytics Innovation Challenge. | USA, 2016 |
| | National finalist of Walmart’s Collegiate Innovators Challenge. | USA, 2014 |
| | SAP Global Peer Recognition award. | India, 2013 |
| | Winner (1 st place) of SAP Osmosis. | India, 2013 |
| | National finalist (1 st runner-up) of SAP BizTech. | India, 2012 |
| | Winner of Microsoft India’s Windows 8 hackathon. | India, 2012 |
| | National finalist of SAP Dashboard Design Challenge. | India, 2011 |
| ACADEMIC SERVICE | <i>Organization Committee</i> | 2018 |
| | AVI 2018 Workshop on Multimodal Interaction For Data Visualization | |
| | <i>Program Committee</i> | 2018 |
| | KDD 2018 Workshop on Interactive Data Exploration and Analytics (IDEA) | |
| | <i>Reviewer</i> | 2016-Present |
| | ACM CHI, IEEE VIS, KDD IDEA, IEEE CG&A | |
| | <i>Teaching Assistant</i> | |
| LEADERSHIP/ TECHNICAL EVANGELISM | CS7450 Information Visualization | Fall 2018 |
| | CS8803 Data Visualization: Principles & Applications | Spring 2017 |
| | Salesforce.com Campus Brand Ambassador | 2016 |
| | SAP Student Ambassador (1 st 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 |