Ramik Sadana

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My research interests are in adapting new interface technologies to create human-centered solutions.
I currently lead Uber's core investment in Augmented Reality. My dissertation research focused on information visualization, specifically on systems for analyzing data on multi-touch interfaces.

Currently

Senior Engineer (Research) — July 2017 – now
Uber Technologies, San Francisco, CA

Area lead, Augmented Reality — 2017 – now

- Built the Augmented Reality library for Uber's RIBs architecture to power AR experiences across all of Uber's iOS apps (Rider, Driver, Eats, Freight).
- Delivered an AR feature within the Uber rider app (released internally).
- Led the design and development of over a dozen prototype AR feature experiences across iOS (ARKit) and Android (ARCore) to scope the impact & challenges of specific technologies and product domains.
- Partnered with feature teams across Uber to evangelize the tech & identify product fit. Presented at discussions with leadership to chart out areas of interest and continued investment.
- Filed a patent and leveraged ongoing scientific research to inform product direction.
- Led discussions with AR platform companies and third-party tech companies for potential partnerships and investments.

Tech lead, Accessibility — 2020 – now

- Leading the cross-company effort to revamp investment in accessibility.
- Tasked with delivering a top-notch in-app experience to current Uber users with disabilities.
- Managing effort to conceptualize and develop new products and experiences tailored to a 3x increase in the number of users with disability.

Education

Ph.D. CS – Human-Computer Interaction — 2017
Georgia Tech, Atlanta, Georgia

Advisor: John Stasko
Thesis: Data Visualization on Tablet Devices

M.S. Human-Computer Interaction — 2012
Georgia Tech, Atlanta, Georgia

M.S. (Integrated) Economics — 2010
Indian Institute of Technology, Kanpur, India

Past Experience

May – Aug 2015	Tableau Research, Palo Alto, CA *Research Intern, Mentor: Vidya Setlur, Jock Mackinlay*
May – Dec 2014	Google Research, Mountain View, CA *Research Intern, Mentor: Yang Li*
May – Aug 2013	Adobe Research, San Jose, CA *Research Intern, Mentor: Bongwon Suh, Eunyee Koh*
May – Aug 2012	Microsoft Research, Redmond, WA *Research Intern, Mentor: Danyel Fisher, Steven Drucker*

Select Publications

2016	R. Sadana and Y. Li, "*Gesture Morpher: Video-based Retargeting of Multi-touch Interactions*" MobileHCI'16, Florence, Italy, Sep. 2016
2016	R. Sadana and J. Stasko, "*Designing Multiple Coordinated Visualizations for Tablets*" Eurovis'16, Groningen, Netherlands, June 2016
2014	R. Sadana, T. Major, A. Dove, J. Stasko, "*OnSet: A Visualization Technique for Large-scale Binary Set Data*", IEEE VIS'14, Paris, France, Nov. 2014
2014	R. Sadana and J. Stasko, "*Designing and Implementing an Interactive Scatterplot Visualization for a Tablet Computer*" AVI'14, Como, Italy, June 2014
2013	S. Drucker, D. Fisher, R. Sadana, J. Herron, m. c. schraefel, "*TouchViz: A case study comparing two interfaces for Data Analytics on Tablets*", CHI '13, Paris, France, May 2013

Select Talks

2015	'*A bit about touch*' at OpenVIS 2015, Boston, MA, April 2015
2013	'*Data + Touch: Explorations and Opportunities*' at workshop on 'Mobile and Breaking News: New Challenges for News Information Visualizations', IEEE VIS'13, Atlanta, GA, Oct. 2013

Skills & Tools

Development	Swift, Objective-C, Java, Python, C#, C++
Prototyping	Unity, D3, JavaScript, Processing, Figma, Cinder, Arduino

Patents

2018	Mutual Augmented Reality Experience for Users in a Network System
2013	Gestures Involving Direct Interaction with a Data Visualization