

Saiganesh Swaminathan

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Human-Computer Interaction Institute
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Research Interests

Summary I am interested in building crowd-powered systems that leverages human input to enable novel interactive experiences and in making crowd work more accessible.

Interested Areas HCI, Crowdsourcing, Accessibility

Education

- August 2016–Present **Carnegie Mellon University**, Pittsburgh, US.
1st year PhD, Human Computer Interaction, School of Computer Science,
Advisor: Jeff Bigham
- July 2015 **Technische Universität Berlin**, Berlin, Germany.
Masters in ICT innovation. Major: Human-Computer Interaction.
Thesis Advisor: Stefanie Mueller and Patrick Baudisch
- July 2012 **SASTRA University**, Thanjavur, India.
Bachelor of Technology in Computer Science and Engineering
Thesis Advisor: Michael Nebeling
- 2011–2012 **ETH Zürich**, Zürich, Switzerland.
Exchange Student at department of computer science

Publications

- **Saiganesh Swaminathan**, Thijs Roumen, Robert Kovacs, David Stangl, Stefanie Mueller, and Patrick Baudisch. Linespace: A Sensemaking Platform for the Blind. *In Proc. of CHI'16*: ACM, Pages, 2175–2185, May 2016
- Benjamin V. Hanrahan, Jutta K. Willamowski, **Saiganesh Swaminathan**, David B. Martin. TurkBench: Rendering the Market for Turkers *In Proc. of CHI'15*: ACM, Pages 1613-1616, April 2015
- **Saiganesh Swaminathan**, Conglei Shi, Yvonne Jansen, Pierre Dragicevic, Lora Oehlberg, Jean-Daniel Fekete. Supporting The Design and Fabrication of Physical Visualizations. *In Proc. of CHI'14*., ACM, pages 3845-3854, April 2014.
- **Saiganesh Swaminathan**, Conglei Shi, Yvonne Jansen, Pierre Dragicevic, Lora Oehlberg, Jean-Daniel Fekete. Creating Physical Visualizations With MakerVis. Interactivity Demo at CHI'14. *In Proc. of CHI'14 EA*: ACM, pages 543-546, April 2014.

Research Experiences

- 2016–Present **Carnegie Mellon University, School of Computer Science**
Graduate Student Researcher, Human Computer Interaction Institute.
Exploring crowd powered systems leverages human input to enable conversational search in wearable devices
- 2015–2016 **Microsoft Research, Bangalore**

Research Fellow, Technologies for Emerging Markets group with Bill Thies, Ed Cutrell.
I explored how to use mobile airtime incentives to strengthen public awareness campaigns

2014–2015 **Hasso-Plattner-Institut, Berlin**

Research Assistant, HCI Lab with Stefanie Mueller, Patrick Baudisch.

Developed a sensemaking platform for blind users with 3d printers, published at CHI'16

2013–2014 **Xerox Research Europe Centre, Grenoble**

Research Intern, Work Practice Technology group with Ben Hanrahan, David Martin.

Helped develop turkbench, a tool which helps crowd workers, published at CHI'15.

2012–2013 **INRIA, Paris**

Research Intern, AVIZ group with Yvonne Jansen, Pierre Dragicevic.

Built Makervis a tool that helps novice users build physical visualizations, published at CHI'14

Skill Set

HCI Skills: Paper Prototyping, Semi-structured interviews, Critical Incident Technique, User Studies, Video Prototyping, Study Design Programming Javascript, HTML 5, CSS 3, D3, Processing, OpenGL, OpenCV, Python, Django, C, C++, Java, MySQL

Hardware: Gcode, Digital Fabrication, Arduino programming, Machining, Tooling, 3d printers, Lasercutters, CNC Routers Design: Photoshop, Illustrator, Premiere

Other Tools: R statistical modelling

Scholarships

- **EIT ICT Labs Excellence Nominee** which includes stipend, tuition fee waiver and travel support for attending two graduate school(16,800 euros with tuition fee waivers).
- **Desh-Videsh** scholarship for study abroad awarded by (1000 euros + roundtrip air tickets).
- Scholarship awarded by **Global information systems group, ETH Zürich** to pursue research activities at ETH Zürich (5,250 Swiss Francs)
- Roundtrip travel expenses from INRIA to present my scientific paper in Toronto, Canada
- Bonus for filing invention disclosure at Xerox Research Europe
- Stipendium from Hasso Plattner Institut to finish my thesis

References

Jeff Bigham, Associate Professor at Carnegie Mellon University, School of Computer Science, HCI
email: jbigham@cs.cmu.edu

Bill Thies, Senior Researcher, Technology for emerging markets group, Microsoft Research, Bangalore.
email: thies@microsoft.com

Patrick Baudisch, Professor at Hasso-Plattner-Institute, Berlin. Germany. HCI Lab.
email: patrick.baudisch@hpi.de

Pierre Dragicevic, Researcher, INRIA, Paris-Saclay, France.
email: pierre.dragicevic@inria.fr