# Sai Ganesh Swaminathan

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#### Education

August Carnegie Mellon University, Pittsburgh, US.

2016-Present PhD student, Human Computer Interaction, School of Computer Science.

Advisor: Scott Hudson

July 2015 **Technische Universität Berlin**, Berlin, Germany.

Masters in Human-Computer Interaction amd Design Thesis Advisor: Stefanie Mueller and Patrick Baudisch

July 2012 **SASTRA University**, Thanjavur, India.

Bachelor of Technology in Computer Science and Engineering

2011–2012 **ETH Zürich**, Zürich, Switzerland.

Exchange Student at department of computer science

# Publications

Saiganesh Swaminathan, Raymond Fok, Fanglin Chen, Ting-Hao Kenneth Huang, Irene Lin, Rohan Jadvani, Walter S. Lasecki, and Jeffrey P. Bigham. WearMail: On-the-Go Access to Information in Your Email with a Privacy-Preserving Human Computation Workflow. *In Proc. of UIST'17*: ACM, Pages, 807-815, October 2017

**Saiganesh Swaminathan**, Kotaro Hara, and Jeffrey P. Bigham. The Crowd Work Accessibility Problem *In Proc. of W4A'17*: ACM, April 2017

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

**B**enjamin 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.

#### Posters and Demos

Saiganesh Swaminathan, Bill Thies, Amit Sharma, Devansh Mehta, Alok Sharma. Learn2Earn: Enabling Mass Awareness through Financial Incentives. In Proc. of ICTD 2019, Jan 2019.

Ting-Hao Kenneth Huang and Joseph Chee Chang and **Saiganesh Swaminathan** and Jeffrey P. Bigham.Evorus: A Crowd-powered Conversational Assistant That Automates Itself Over Time. Poster at UIST'17. *In Adjunct Proc. of UIST'17 EA*: ACM, pages 155-157, OCT 2017.

Saiganesh Swaminathan, Ting-Hao K. Huang, Irene Lin, Anhong Guo, Gierad Laput, and Jeffrey P. Bigham. (2017) Epistemo: A Crowd-Powered Conversational Search Interface. In the Talking with Conversational Agents in Collaborative Action Workshop at the 20th ACM CSCW, Feb 2017.

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**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.

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# Research Experiences

### 2016-Present Carnegie Mellon University, School of Computer Science

Graduate Student Researcher, Human Computer Interaction Institute.

Exploring additive manufacturing of printed electronics. Specifically looking at processing innovations that enable a new class of multi-functional composites for designing custom interactive electronic devices and assistive technologies.

#### 2015-2016 Microsoft Research, Bangalore

Researh 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

Researh 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

Researh 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

Hardware: Solidworks, Mechatronic systems, Eagle Programming: Javascript, HTML 5, CSS 3, D3, Pro-

PCB, Gcode, Digital Fabrication, Ardessing, OpenGL, OpenCV, Python, duino programming, Machining, Tool
Django, C, C++, Java, MySQL

ing, 3D printers, Lasercutters, CNC DJango, C, C++, Java, MySQ

Routers

Machine Keras, Scikit-learn, Weka

learning:

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)
- Rountrip 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

Reviewing

ACM CHI '16,'17,'18, '19

ACM UIST '17 ACM TEI '18 ACM ISS '18

# References

**Scott Hudson**, Professor at Carnegie Mellon University, School of Computer Science, HCII email: scott.hudson@cs.cmu.edu

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

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