

Huaishu Peng

CONTACT

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412.916.7506

EDUCATION

Cornell University | Sep 2012 - present

Ph. D. in Human-Computer Interaction. Advised by Prof. François Guimbretière.

Carnegie Mellon University | Aug 2010 - May 2012

Master of Tangible Interaction Design. Advised by Prof. Mark D Gross.

Beihang University | Sep 2006 - May 2010

B.Eng. in Software Engineering.

RESEARCH INTEREST

Digital Fabrication. Interactive fabrication and fabrication of interactive objects.

PUBLICATIONS

Huaishu Peng, François V. Guimbretière, James McCann, Scott E. Hudson. A 3D Printer for Interactive Electromagnetic Devices. *UIST '16*.

Huaishu Peng, Rundong Wu, Steve Marschner, François V. Guimbretière. On-the-Fly Print: Incremental Printing while Modeling. *CHI '16*.

Rundong Wu, **Huaishu Peng**, Steve Marschner, François V. Guimbretière. Printing Arbitrary Meshes with a 5DOF Wireframe Printer. *SigGraph '16*.

Huaishu Peng, Scott E. Hudson, Jennifer Mankoff, James McCann. Soft Printing with Fabric. *XRDS Spring, 16*.

Huaishu Peng, Jennifer Mankoff, Scott E. Hudson, James McCann. A Layered Fabric 3D Printer for Soft Interactive Objects. *CHI '15*. [Best Paper Nominee | Top5%]

Huaishu Peng, Amit Zoran, François V. Guimbretière, D-Coil: A Hands-on Approach to Digital 3D Models Design. *CHI '15*.

Tauhidur Rahman, Alexander T. Adams, Mi Zhang, Erin Cherry, Bobby Zhou, **Huaishu Peng**, and Tanzeem Choudhury. BodyBeat: a mobile system for sensing non-speech body sounds. *MobiSys '14*.

Huaishu Peng. Algo.Rhythm: Computational Thinking through tangible music device, *TEI '12*.

Huaishu Peng. TouchSound: Making Sounds with Everyday Objects, *TEI '11*.

PROFESSIONAL EXPERIENCE

Disney Research Pittsburgh | May 2014 – Aug 2014 | Oct 2015 – Dec 2015

Imagineer. Advised by Dr. James McCann & Prof. Scott Hudson.

Designed and prototyped new type of 3D printers.

Hasso-Plattner-Institut | June 2015 – Aug 2015

Visiting researcher. Advised by Prof. Patrick Baudisch.

Designed and worked on robotic arm based interactive fabrication tool.

CMU Computational Design Lab | Sep 2011 – May 2012

Research Assistant. Advised by Prof. Mark Gross.

Developed foot-computer interface for pervasive computing. Designed and prototyped drum robots with programmable behaviors.

Microsoft Research Asia | Jun 2011 – Aug 2011

Research intern in HCI Group. Advised by Dr. Darren Edge.

Explored design and research opportunities for “disruptive technology” and “emotional IO” through physical prototypes.

BirdBrain Technologies LCC | Dec 2010 – Dec 2011

Mobile Designer and Developer.

Created android App with multiple interaction methods for consumer robots.

SELECTED PRESS COVERAGE

Techcrunch.com. Disney's New 3D Printer Prototype Makes Huggable Things Out Of Fabric Instead Of Hard Plastic. 2015.

Engaget.com. Disney Research has a 3D printer that can sew bunnies for you. 2015.

Gizmodo.com. Disney Made a 3D Printer That Creates Soft Objects Using Fabric. 2015.

3dprint.com. D-Coil — A 3D Wax Printing Pen That Also Builds Digital Models on the Fly. 2015.

3ders.org. Researchers develop D-Coil handheld wax extruder that makes 3D modeling easier than ever before. 2015.

Newscientist.com. Listen to sounds inside the body to monitor health. 2014.

MIT Technology Review. Wearable Self-Tracking Tool Listens for Yawns, Coughs, and Munches. 2014.

Core77.org. Honey, I Shrunk the CNC Machine: "Piccolo" Is the World's Smallest CNC Platform. 2012.

Wired. Fetish: Transparent technology and see-through kit that reveal their inner workings. 2012.

Fastcodesign.com. Pocket-Sized Drawing Robot Costs Less Than \$70. 2012.

Designboom.com. Diatom studio: piccolo drawing bot. 2012.

Makerzine.com. Piccolo, a Mini CNC Artbot. 2012.

WORKSHOP AND EXHIBITIONS

Make your own Piccolo, workshop host. TEI, Spain, Feb. 2013

Algo.Rhythm, invited exhibition. Maker Carnival Beijing, Apr. 2012

BrainLink, Education Award. Maker Faire Bay Area, May. 2011

TEACHING

TA for Introduction to Rapid Prototyping and Physical Computing (13/14 Spring)

TA for Introduction to Computing Using Python (13 Fall)

SKILLS

Programming: Python, C#, C/C++, Java, Android, open Frameworks

Hardware: Digital prototyping, Hand tools, Circuit board

Design: Adobe Creative Suite, Autodesk Inventor, Rhinoceros

VOLUNTEERING

TEI '12. Conference student volunteer. Kingston, ON, Canada.

2008 Summer Olympic Games. Weightlifting stadium spectator guide. Beijing, China.