



EDUCATION

- MIT Media Lab, PhD** Sep 2013 - Present
Fluid Interfaces Group (Advisor: Pattie Maes), GPA 5.0/5.0
- KAIST, MS** Feb 2008 - Jan 2010
Dept of EE, GPA 4.12/4.3, Focus on 3D Computer Vision, Pattern Recognition
- KAIST, BS** Mar 2004 - Feb 2008
Dept of EE, GPA 3.52/4.3 Cum Laude, National Science and Technology Scholarship
- Gyeonggi Science High School** Mar 2002 - Feb 2004
Early Graduation

WORK EXPERIENCE

- Microsoft Research** Redmond, WA, USA, Jun 2014 - Aug 2014
Research Intern at Studio 99 supervised by Asta Roseway and Ann Paradiso. Created *Remnance of Form*, an interactive shadow art installation that challenge our notion of reality.
- Samsung Electronics** Suwon, Korea, Feb 2010 - Apr 2013
Software Engineer at Telecommunication Systems Division Feb 2010 - Apr 2013
Server programmer: push server/client, automatic testing suite, open API service
Android framework programmer: application framework, CTS verification, Google approval
- Creativity Lab - eyeCan Project** Oct 2011 - Apr 2012
Developed a low-cost, open-source eye-mouse for Lou Gehrig's Disease/Lock in syndrome patients. *eyeCan* showed how gaze interactions can produce a rich user experience. We also implemented supply-and-educate program in South Korea.

TALKS, AWARDS, MEDIA

selected

- Media **BBC**, Back to the Future: What will technology really look like? Oct 21 2015
- Award Cord Uls - Winner, Students Category, 2015 Fast Company Innovation by Design Awards Sep 14 2015
- Aware THAW - Finalist, Experimental Category, 2015 Fast Company Innovation by Design Awards Sep 14 2015
- Media **WIRED**, MIT Inventors Turn Power Cords Into Gadget Interfaces Mar 6 2015
- Media **Fast Company**, 5 Ways MIT Is Reinventing Your Power Cord Feb 2 2015
- Media **Gizmodo**, *The 7 Most Important UI and UX Ideas of 2014* Dec 30 2014
- Talk **Sebasi + PAN**, *Imagine by Inventing* Nov 20 2014
- Award UIST 2014 People's Choice Best Demo Honorable Mention Oct 2014
- Media **WIRED**, *MIT's Slick New UI Lets Your Phone and Desktop Screens Behave as One* Sep 24 2014
- Media **Engadget**, *MIT can turn your smartphone into a different kind of second screen* Sep 19 2014
- Media **Fast Company**, *MIT Invents A Magic Lens That Combines All Your Screens Into A Single Experience* Sep 17 2014
- Talk **Seoul Digital Forum**, *Samsung's eyeCan + Eyewriter: Co-writing a Recipe for Collaboration* May 1 2013
- Award Samsung Social Responsibility Award, Samsung Electronics Dec 2012
- Talk *A Story about Technology that Changes Lives*, **Busan Tech Plus Forum** May 24 2012
- Talk *Developing an DIY Eye-Mouse for ALS Patients*, **TEDxSamsung 2nd Conference** COEX, Aug 16 2011
- Media **Wall Street Journal Blog**, *Samsung Develops Low-Cost "Eye Mouse"* Mar 22 2012

PUBLICATIONS

selected

- S. Leigh**, and P. Maes. *Body Integrated Programmable Joints Interface*, **CHI 2016 (Best Paper Honorable Mention - 4%)**
- ***S. Leigh**, *H. Agrawal, and P. Maes. *A Flying Pantograph: Interleaving Expressivity of Human and Machine*, **TEI 2016 Arts Exhibition**
- *H. Agrawal, ***S. Leigh**, and P. Maes. *L'evolved: autonomous and ubiquitous utilities as smart agents*, **Ubicomp 2015**
- S. Leigh**, P. Schoessler, F. Heibeck, P. Maes, H. Ishii. *THAW: Tangible Interaction with See-Through Augmentation for Smartphones on Computer Screens*, **TEI 2015**
- S. Leigh**, A. Roseway, A. Paradiso. *Remnance of Form: Altered Reflection of Physical Reality*, **TEI 2015 Arts Exhibition**
- P. Schoessler, **S. Leigh**, K. Jagannath, P. van Hoof, H. Ishii, *Cord Uls: Controlling Devices with Augmented Cables*, **TEI 2015**
- W. Kim, **S. Leigh**, N. Hur, J. Choi, *Feature-based detection of inverted-stereo for stereoscopic 3D viewing comfort*, **IEEE trans. on Broadcasting**, Jun 2012

BACKGROUND & SKILLS

Strong background in Computer Vision, Augmented Reality, Machine Learning
Fabrication - http://fab.cba.mit.edu/classes/863.14/people/sang_leigh/