

Seungyup Lee

PERSONAL DETAILS

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Date of Birth: Nov 12, 1984
Nationality: South Korea
Marital Status: Married 1 child
Gender: Male

RESEARCH INTERESTS

- ⊙ Intelligent system design and development
- ⊙ Design methodology for interactive and intelligent system
- ⊙ Multimodal interaction technique design, development, and evaluation.
- ⊙ Cognitive effects of new technology on user.
- ⊙ Web-based service framework design, development, and evaluation.
- ⊙ Technology transfer

EDUCATION

Mar 2011 – Current Ph.D., School of Integrated Technology, **Yonsei University**,
85 Songdo-Gwahak-ro, Yeonsu-gu, Incheon, South Korea
Expected graduation: Aug 2017

Mar 2003 – Feb 2010 B.E., Mechanical Engineering, **Yonsei University**, 50 Yonsei-ro,
Seodaemun-gu, Seoul, South Korea

WORK EXPERIENCE

Jan 4, 2010 – Jan 31, 2011 Product Strategy Team, Mobile Telecommunication Division,
Samsung Electronics, Suwon, South Korea
Product Manager

TEACHING EXPERIENCE

Fall 2014 Convergence and Innovation, TA
Spring 2014 Hardware Project, TA
Fall 2011 Advanced Engineering Mathematics, TA
Spring 2011 Physics, TA

AWARD

- Dec 2009 Top Excellence Award, The third Digital Da Vinci Award, Yonsei University X Samsung Cooperate Design Center ([pdf](#))
- April 2010 Excellence Award, In-company Idea Contest for Bada Open Platform, Samsung Electronics ([pdf](#))
- May 2015 Excellence Award, Creative ICT Convergence Korea 2015, Ministry of Science, ICT and Future Planning, Republic of Korea ([pdf](#))

SCHOLARSHIP

- Mar 2011 – present Full graduate scholarship by IT Consilience Creative Program (NIPA-2014-H0201-14-1002), National IT Industry Promotion Agency (NIPA), Ministry of Science, ICT and Future Planning (MSIP), Republic of Korea
-This scholarship is awarded to those enrolled in this particular academic program and acceptance into this program was offered to only 10 % of the total applicants

PUBLICATIONS

International Journal Publication:

- ⊙ **Lee, S.;** Baek, J.; Han, G., "Effects of using Second-Screen Application on Attention, Learning, and User Experience in Educational Content" *published online in Interactive Learning Environments* **2017**. ([pdf](#))
- ⊙ **Lee, S.;** Yoo, J.; Han, G., "Gaze-Assisted User Intention Prediction for Initial Delay Reduction in Web Video Access." *Sensors* **2015**, 15, pp.14679-14700. ([pdf](#))

International Conference Proceedings:

- ⊙ **Lee, S.**, "Integrated Theory of Intelligent System for User Intention Estimation," *in preparation for User Modelling and User-Adapted Interaction*.
- ⊙ **Lee, S.**, "Cross-cut: Cross-device Gesture Shortcut Interface for Enhancing Task Performance on Multitouch Tablets," *in preparation for CHI 2018*.
- ⊙ **Lee, S.;** Yoo, J.; Han, G., "A Second Screen Web Service Framework based on Multimedia Package Distribution," *Proceedings of IEEE International Conference on Consumer Electronics (ICCE)*, 2015, pp.42, 45, 9-12 Jan. **2015**. ([pdf](#) and [demo video](#))
- ⊙ **Lee, S.;** Yoo J.; Ju D.Y., "Data Preloading Technique using Intention Prediction." In: *Human-Computer Interaction. Applications and Services. Lecture Notes in Computer Science*, Springer International Publishing, **2014**, 8512, pp.32-41. ([pdf](#))
- ⊙ Yoo J.; **Lee, S.;** Ahn, C., "Air Hook: Data Preloading User Interfaces." *Proceedings of IEEE International Conference on ICT Convergence (ICTC)*, **2012**, pp.163-167. ([pdf](#))

Oral Presentation:

- ⊙ **Lee, S.;** Yoo, J.; Han, G., "A Second Screen Web Service Framework based on Multimedia Package Distribution," *in IEEE International Conference on Consumer Electronics (ICCE)*, Las Vegas, NV, USA, **2015**.
- ⊙ **Lee, S.;** Yoo J.; Ju D.Y., "Data Preloading Technique using Intention Prediction." *in Human Computer Interaction International*, Creta, Greece, **2014**.
- ⊙ Yoo J.; **Lee, S.;** Ahn, C., "Air Hook: Data Preloading User Interfaces." *in IEEE International Conference on ICT Convergence (ICTC)*, Jeju Island, South Korea, **2012**.

PATENTS

Technology Transfer:

- ⊙ Method and system for providing contents complex to multiple terminals. Korean Patent 10-1335590. **Transferred to mid-sized company.**
- ⊙ Contents complex providing server for a plurality of terminals. Korean Patent 10-1429174. **Transferred to mid-sized company.**
- ⊙ Contents complex providing server. Korean Patent 10-1429171. **Transferred to mid-sized company.**

U.S. Patents & PCT:

- ⊙ Apparatus and method of controlling input of stylus pen having virtual 3D profile, **Preparing U.S. Patent Application.**
- ⊙ Apparatus and method for providing virtual keyboard, **Preparing U.S. Patent Application.**
- ⊙ Electronic cigarette, data processing apparatus, method for measuring smoking amount and smoking management system employing the same, U.S. Patent Application 15/211,282 July 2016, **Filed.**
- ⊙ Method for increasing GUI response speed of user device through data preloading and, said user device. U.S. Patent Application 14/434,970, April 2015. **Filed.**
- ⊙ Response speed enhancing method using data pre-load and terminal device thereof. PCT/KR2013/009039, October 2013. **Filed.**
- ⊙ Content complex providing server for a group of terminals. U.S. Patent Application 13/851,329, March 2013. **Filed.**
- ⊙ Apparatus and method for providing image effect in mobile terminal. U.S. Patent Application 13/297502, November 2011. **Filed.**

Korean Patents:

- ⊙ Apparatus and method of providing additional function and feedback to other apparatus by using information of multiple sensors, Korean Patent, 10-2016-0154980, November 2016, **Filed.**
- ⊙ Apparatus and method of controlling input of stylus pen having virtual 3D profile, Korean Patent 10-1727853, April 2017, **Issued.**
- ⊙ Apparatus and method for providing virtual keyboard, Korean Patent, 10-1749833, June 2017, **Issued.**
- ⊙ Electronic cigarette, data processing apparatus, method for measuring smoking amount and smoking management system employing the same, Korean Patent, 10-2015-0100424, March 2015, **Filed.**
- ⊙ Contents complex providing server. Korean Patent 10-2014-0059050, May 2014. **Filed.**
- ⊙ Pre-loaded data management method and terminal device thereof. Korean Patent 10-1639993, July 2016. **Issued.**
- ⊙ Data pre-load management method and terminal device thereof. Korean Patent 10-1639993. **Issued.**
- ⊙ Apparatus and method for preload using probability model. Korean Patent 10-1485907. **Issued.**
- ⊙ Contents complex providing terminal. Korean Patent 10-1584050, January 2016. **Issued.**
- ⊙ User device which enhanced response speed and response speed enhancing method using data pre-load. Korean Patent 10-1372484, March 2014. **Issued.**
- ⊙ Apparatus and method for providing graphical user interface. Korean Patent 10-1533039, June 2015. **Issued.**

- ⊙ Device for providing information related to contents being played by display device, server and method thereof. Korean Patent 10-1487187, January 2015. **Issued.**
- ⊙ Response speed enhancing method using data pre-load and terminal device thereof. Korean Patent 10-1414237, June 2014. **Issued.**
- ⊙ Sticker interface method and sticker interface system. Korean Patent 10-1442140, September 2014. **Issued.**
- ⊙ Power transfer and sharing apparatus for mobile devices. Korean Patent 10-1390402, April 2014. **Issued.**
- ⊙ Gloves based interface apparatus, and haptic system and method using the same. Korean Patent 10-1350776, January 2014. **Issued.**
- ⊙ Sleep and activation apparatus and method of touchscreen device using mobile terminal. Korean Patent 10-1330801, November 2013. **Issued.**
- ⊙ System and method for providing usability among touch-screen devices. Korean Patent 10-1426942, July 2014. **Issued.**
- ⊙ Device and method for providing image effect in wireless terminal. Korean Patent 10-01114702, November 2010. **Filed**
- ⊙ Portable touch screen device with function of providing service. Korean Patent 10-1026868, March 2011. **Issued.**
- ⊙ Workbook. Korean Patent 10-0499811, June 2005. **Issued.**

ADDITIONAL INFORMATION

Technical Skills:

- ⊙ Experience with implementation of web-application based on HTML/JavaScript.
- ⊙ Experience with iOS application development using Objective-C/Swift.
- ⊙ Expertise in Adobe Illustrator, After Effect, Sketch, and Keynote for fast prototyping.
- ⊙ Extensive knowledge of MATLAB.
- ⊙ Expertise in design and evaluation of empirical studies.
- ⊙ Experience with SPSS for statistical analysis.

Languages:

- ⊙ Korean: Mother tongue.
- ⊙ English: Advanced in oral, reading, and writing.
- ⊙ Japanese: Intermediate in oral.

REFERENCES

Name: Professor Dr. Gunhee Han
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