

# Jason Youn

jyoun@ucdavis.edu

---

## Education

- University of California, Davis**, Davis, CA, USA September, 2018 – Present
- Ph.D. student in Computer Science
  - Area of research: machine learning, deep learning, artificial intelligence
  - Advisor: Professor Ilias Tagkopoulos
- Purdue University**, West Lafayette, IN, USA August, 2012 – May, 2014
- M.S. in Electrical Engineering
  - Area of research: digital signal processing (digital halftoning)
  - Cumulative GPA: 3.57/4.00
- Purdue University**, West Lafayette, IN, USA August, 2008 – May, 2012
- Bachelor of Science in Electrical Engineering
  - Graduated with highest distinction (*summa cum laude*)
  - Cumulative GPA: 3.95/4.00

## Research Experience

- Yonsei University**, Seoul, South Korea August, 2017 – August, 2018  
*Researcher* – Digital Image Media Lab, Institute of Engineering Research
- Advisor: Professor Kwanghoon Sohn
  - Developed fine-grained vehicle classification technology based on large-scale vehicle database
  - Developed the high-precision AR & VR contents using multiple smart car sensors and deep learning
- Purdue University**, West Lafayette, IN, USA August, 2012 – May, 2014  
*Graduate Research Assistant* - Electronic Imaging Systems Laboratory
- Advisor: Professor Jan P. Allebach
  - Developed black-box models based on the super-high-resolution image capture devices which predict the output of a printer without physically printing one

## Publication

- J. Youn, J. Sun, Y. Ju, T. Kashti, T. Frank, D. Kella, M. Fischer, R. Ulichney, G. Adams, J. Allebach, "Effect of Image Capture Device on the Accuracy of Black-Box Printer Models," Proc. SPIE 9015, *Color Imaging XIX: Displaying, Processing, Hardcopy, and Applications*, 90150T (January 8, 2014)
- J. Cho, Y. Kim, H. Jung, C. Oh, J. Youn, K. Sohn, "Multi-Task Self-Supervised Visual Representation Learning for Monocular Road Segmentation," *International Conference on Multimedia and Expo (in press)*

## Industry Experience

- Innowireless Co.**, Gyunggi-do, South Korea June, 2014 – July, 2017  
*Associate Research Engineer* - System Solution Software Team
- Developed board support packages for various small cells (low-powered LTE radio access point)
  - Developed APIs and Linux device drivers to control the small cell hardware
  - Developed a license management program to detect illegal reproduction of software
  - Implemented a secure firmware distribution channel to prevent hacking or tampering of the firmware
- LG Electronics**, Seoul, South Korea May, 2012 – July, 2012  
*Research Intern* - Future R&D Immersive Computing Department
- Developed a software which automatically resizes set of images based on a target image
  - Developed a model for interactive video conference device which supports eye contact
- Innowireless Co.**, Gyunggi-do, South Korea May, 2010 – July, 2010  
*Research Intern* - IP Design Department
- Developed an error detection / correction circuit implemented in field-programmable gate array (FPGA)

## Teaching Experience

**Purdue University**, West Lafayette, IN, USA August, 2013 – May, 2014  
*Lecturer, Graduate Teaching Assistant - ECE207, Electric Measurement Technique*

- Took full responsibility of 93 freshmen and sophomore engineering students (4 sections)
- Gave lectures on linear circuit analysis and performed related laboratory experiments
- Received highly positive course evaluation (Link to the course evaluation: <https://goo.gl/hR43qA>)

**Purdue University**, West Lafayette, IN, USA August, 2011 – May, 2012

*Undergraduate Teaching Assistant - ECE207, Electric Measurement Technique*

- Answered questions throughout the lab and graded quizzes for 64 students (2 sections)

## Honors & Awards

- Designer / Leader Award (Senior Design Projects) May, 2012
- Barrett Robinson Outstanding Team Award (Senior Design Projects) May, 2012
- Dean's List & Semester Honors August, 2008 – May, 2012

## Fellowships & Scholarships

- Ross Fellowship August, 2012 – May, 2014
- Trustees Scholarship August, 2008 – May, 2012
- Eli Shay ECE Scholarship August, 2011 – May, 2012

## Professional Computer Skills

- C++
- TensorFlow
- C
- MATLAB
- Python
- Linux