

# Keunhong Park

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## Education

- **Ph.D. in Computer Science** Sep 2015 – (current)  
*The University of Washington, Seattle* Seattle, WA
  - Area of Research: Computer Vision, Graphics
  - Advisors: Ali Farhadi, Steve Seitz
- **B.S. in Computer Science** Aug 2009 – May 2013  
*The University of Illinois at Urbana-Champaign* Champaign, IL
  - Graduated with Highest Honors, Edmund J. James Scholar, Dean's List

## Research Experience

- **Appearance Inference from Photographs and 3D Models** Sep 2015 – (current)  
*Working with Ali Farhadi (ali@cs.uw.edu), Steve Seitz (seitz@cs.uw.edu)* Seattle, WA
  - The aim of the project is to learn an appearance model (spatially varying BRDF) of objects in photographs using 3D models as a proxy. This would enable rich interaction with stock photographs.
- **Learning Analogies from Independent Part Models** Aug 2012 – Jun 2013  
*Worked with Ian Endres (iendres@gmail.com), Derek Hoiem (dhoiem@illinois.edu)* Champaign, IL
  - Used boosted part models to find explicit spatial correspondences across parts of different categories.

## Professional Experience

- **Amazon Go** July 2017 – Sep 2017  
*Applied Scientist Intern* Seattle, WA
  - Vision-based human activity detection.
- **Google Inc.** May 2013 – Aug 2013  
*Software Engineering Intern* Mountain View, CA
  - Created a graph-based automatic document conversion system for Google Cloud Print.
- **Qualcomm Innovation Center Inc.** May 2012 – Aug 2012  
*Interim Engineering Intern* Boulder, CO
  - Significantly improved performance of JGit reducing code push times from ~1 hour to a couple of seconds.
  - Implemented multi-master support for Gerrit Code Review with heartbeats and cache synchronization.
- **Cyber Command, Ministry of National Defense** Oct 2013 – Jul 2015  
*Software Engineer (Sergeant), Mandatory Service* Seoul, South Korea
  - Created network monitoring software, front-end UIs, and analytics software.

## Projects

- **Holoscanner: Gamifying 3D Scanning** Spring, 2016  
*Augmented reality application for the Microsoft Hololens. (AR/VR Capstone)* Seattle, WA
  - Project website: <https://holoscanner.github.io/>

## Fellowships

- **Samsung Scholarship (\$50,000/year for 5 years).** Fall 2015 – (current)  
*Samsung Foundation of Culture* Seoul, South Korea

## Publications

- **Park, K.**, Endres, I., Hoiem, D. "Learning Analogies from Independent Part Models.", *Presented as poster at FGVC Workshop at CVPR 2013*

## Skills

- **Programming:** Python, Java, GLSL, C++, MATLAB, Web (JavaScript, HTML, CSS)
- **Tools:** Numpy, PyTorch, OpenGL, Cython, PostgreSQL, asyncio, Protobufs, Flask