Aleksander Holynski

Curriculum Vitae

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Education

University of Washington, *Seattle, WA* — expected 2020
Ph.D. in Computer Science and Engineering
Research Areas: Computer Vision, Computer Graphics, Virtual Reality
Advisor: Steve Seitz

University of Illinois at Urbana-Champaign, *Urbana, IL* — 2011 - 2014
B.S. in Computer Science with High Honors

Publications

Fast Depth Densification for Occlusion-aware Augmented Reality [2]
Aleksander Holynski, Johannes Kopf, SIGGRAPH Asia 2018.

Automated Worker Activity Analysis in Indoor Environments for Direct-Work Rate Improvement from long sequences of RGBD Images [1]
A. Khosrowpour, I. Fedorov, A. Holynski, J.C. Niebles, M. Golparvar-Fard, CRC 2014.

Internships

Facebook: Computational Photography, with Rick Szeliski — 2018
Topics: Structure from Motion, Multi-view stereo

Facebook: Computational Photography, with Johannes Kopf — 2017
See Publications [2].

Google: Virtual Reality, with Carlos Hernandez Esteban — 2016
Real-time stitching and live streaming of Google VR180 content to YouTube.

Qualcomm Research & Development, San Diego, CA — 2014
Efficient approximations of image processing algorithms for mobile phones.

Qualcomm Innovation Center, San Diego, CA — 2013
Internal tools for the analysis of DSP performance on mobile phones.

Qualcomm Inc., San Diego, CA — 2012
Optimization of camera sensor drivers and algorithms for auto-focus & auto-white balance.

Projects & Supervision

Consumer Light-field Capture for Virtual Reality — Ph.D 2014 -
Steve Seitz
Generating and rendering 6-DoF explorable virtual reality scenes from mobile phone videos.

Automatic Object Segmentation in Videos — B.S. 2013 - 2014
Svetlana Lazebnik
Semi-automatic object segmentation in videos using hierarchical supervoxels.

Mingle: Sensing the Social Interactions of Animals — B.S. 2012 - 2014
Robin Kravets
Reconstructing positions of animals in a herd from RSSI values in ad-hoc sensor networks.

Scholarships & Honors

Runner-up, Pacific Northwest ACM ICPC	2014
Leach/Winokur Endowed Fellowship in Computer Science & Engineering	2014 - 2015
Achievement Rewards for College Scientists (ARCS) Fellowship	2014 - 2016
University of Illinois Edmund J. James Scholar	2011 - 2014
University of Illinois College of Engineering Dean's List	2011 - 2014

Teaching

CS398 Computer Architecture, University of Illinois — 2013-2014
Teaching Assistant to Professor Craig Zilles

CS125 Intro. to Computer Science, University of Illinois — 2012
Teaching Assistant to Professor Lawrence Angrave

Skills

Programming: C/C++, Python, MATLAB
Languages: English, Spanish, Farsi, French, and Polish.