Aleksander Holynski
Curriculum Vitae

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Education

University of Washington, *Seattle, WA* — expected 2021
Ph.D. in Computer Science and Engineering
Advisors: *Steve Seitz, Richard Szeliski, Brian Curless*

University of Illinois at Urbana-Champaign, *Urbana, IL* — 2011 - 2014
B.S. in Computer Science with High Honors
Advisors: *Robin Kravets, Svetlana Lazebnik*

Publications

Animating Pictures with Eulerian Motion Fields — CVPR 2021 Oral
Aleksander Holynski, Brian Curless, Steven M. Seitz, Richard Szeliski

Reducing Drift in Structure from Motion using Extended Features[2] — 3DV 2020 Oral
Aleksander Holynski, David Geraghty, Jan-Michael Frahm, Chris Sweeney, Richard Szeliski

Seeing the World in a Bag of Chips — CVPR 2020 Oral
Jeong Joon Park, Aleksander Holynski, Steven M. Seitz

Fast Depth Densification for Occlusion-aware Augmented Reality[1] — SIGGRAPH Asia 2018
Aleksander Holynski, Johannes Kopf

Structure from Motion for Panorama-Style Videos — arXiv 2018
Chris Sweeney, Aleksander Holynski, Brian Curless, Steven M. Seitz

Automated Worker Activity Analysis in Indoor Environments for Direct-Work Rate Improvement from long sequences of RGBD Images — CRC 2014
Ardalan Khosrowpour, Igor Fedorov, Aleksander Holynski, Juan Carlos Niebles, Mani Golparvar-Fard

Work Experience

Facebook: Computational Photography *with Richard Szeliski* — 2018
See Publications [2]

Facebook: Computational Photography *with Johannes Kopf* — 2017
See Publications [1]

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

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.

Scholarships & Honors

University of Washington Reality Lab Fellowship	2018-
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

Guest Lecturer & Teaching Assistant, CSE576 Computer Vision, University of Washington	2020
Teaching Assistant, CSE481V AR/VR Capstone, University of Washington	2019
Teaching Assistant, CS398 Computer Architecture, University of Illinois	2013-2014
Teaching Assistant, CS125 Intro. to Computer Science, University of Illinois	2012

Academic Service

Reviewer: SIGGRAPH, SIGGRAPH Asia, Transactions on Graphics (TOG), Transactions on Visualization and Computer Graphics (TVCG)

Appointments

Research Advisory Board, Tooploox AI — 2018-

Etc

Languages: English (fluent, technical), Spanish (fluent, technical), Farsi (fluent), French (conversational), Polish (conversational)
Programming: C/C++, Python, OpenGL, PyTorch
Projects: Holoscanner: Gamified 3D Scanning (link)