

Daeyun Shin

Curriculum Vitae

Ph.D. Student
Department of Computer Science
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Research Interests

My research interests are in artificial intelligence at the intersection of computer vision and graphics. I am interested in 3D scene understanding and unsupervised and transfer learning.

Education

Sept 2017 – present **Ph.D.** in Computer Science, University of California, Irvine
Aug 2015 – Jul 2017 **M.S.** in Computer Science, University of Illinois at Urbana-Champaign
Aug 2011 – May 2015 **B.S.** in Computer Science, University of Illinois at Urbana-Champaign

Publications

- [1] D. Shin, C. Fowlkes, and D. Hoiem, "Pixels, voxels, and views: A study of shape representations for single view 3d object shape prediction," in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018.
- [2] J. Rock, T. Gupta, J. Thorsen, J. Gwak, D. Shin, and D. Hoiem, "Completing 3D object shape from one depth image," in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2015.

Manuscripts

- [1] D. Shin, Z. Ren, E. B. Sudderth, and C. C. Fowlkes, "Multi-layer depth and epipolar feature transformers for 3d scene reconstruction," *in review, arXiv preprint arXiv:1902.06729*, 2019.
- [2] T. Gupta, D. Shin, N. Sivagnanadasan, and D. Hoiem, "3dfs: Deformable dense depth fusion and segmentation for object reconstruction from a handheld camera," *arXiv:1606.05002*, 2016.

Internship

May 2016 – Aug 2016 **Google Inc.**, Software Engineering Intern | New York, NY
– Worked on a graphics/vision project registering handwritten strokes to images for an unreleased product.

May 2015 – Aug 2015 **Google Inc.**, Software Engineering Intern | Pittsburgh, PA
– Display/Video Ads team.

May 2014 – Aug 2014 **Amazon Web Services**, Software Engineering Intern | Palo Alto, CA
– Software development with WorkDocs team.

May 2013 – Aug 2013 **Amazon.com**, Software Engineering Intern | Seattle, WA
– Worked on face detection for video-based surveillance software in a computer vision team.

Academic Employment

- Since Mar 2018 **Research Assistant**, CS Department | Irvine, CA
– 3D vision research with Prof. Charless Fowlkes.
- Sept 2017 – Mar 2018 **Teaching Assistant**, CS Department | Irvine, CA
– Design and Analysis of Algorithms (CS 161), Computational Photography (CS 116)
- Aug 2016 – Jul 2017 **Research Assistant**, CS Department | Urbana, IL
– 3D vision research with Prof. Derek Hoiem.
- Aug 2015 – May 2016 **Teaching Assistant**, CS Department | Urbana, IL
– Computational Photography (CS 445), Applied Machine Learning (CS 498 DF)

Invited Talks

- Jun 2018 Vision Meets Cognition Workshop at CVPR: Pixels, voxels, and views: A study of shape representations for single view 3D object shape prediction

Professional Services

- Since 2018 **Paper Reviewer**, ICCV 2019, CVPR 2019, BMVC 2019, ACCV 2018, WACV 2019

Activities

- Aug 2013 **ACM-ICPC**, Represented UIUC in Mid-Central USA