Jae Yong Lee

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Urbana Illinois, 61801
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RESEARCH INTEREST

Geometric Computer Vision (SfM / MVS), Deep Learning, Reinforcement Learning

EDUCATION

University of Illinois at Urbana-Champaign	Urbana-Champaign, IL
Ph.D. in Computer Science	August 2018 – Present
Advisor: Derek Hoiem	

University of Illinois at Urbana-Champaign	Urbana-Champaign, IL
B.S. in Computer Engineering	August 2010 – December 2016

WORK EXPERIENCE

Amazon.com	Seattle, WA
Research Intern	Summer 2021

Microsoft Corporation	Redmond, WA
Research Intern	Summer 2020
Research Intern	Summer 2019

Reconstruct Inc.	Urbana-Champaign, IL
Computer Vision Engineer	2020-2021
Lead Visualization Engineer and Project Manager	2019
Full Stack Developer	2018-2019
Remote Consultant	2016-2018
Part time developer / Intern	2015-2016

Republic of Korea Air Force	Osan, South Korea
Staff Sergeant	2011 –2013

PUBLICATIONS

PatchMatch-RL: Deep MVS with Pixelwise Depth, Normal, and Visibility
Jae Yong Lee, Joseph DeGol, Chuhang Zou, Derek Hoiem
ICCV, 2021 **(Oral Presentation)**

PatchMatch-Based Neighborhood Consensus for Semantic Correspondence
Jae Yong Lee, Joseph DeGol, Victor Fragoso, Sudipta. N. Sinha
CVPR, 2021

Exploring the potential of image-based 3d geometry and appearance reasoning for automated construction progress monitoring
Jacob J. Lin, Jae Yong Lee, Mani Golparvar-Fard
Computing in Civil Engineering 2019: Data, Sensing, and Analytics, 162-170

FEATS: Synthetic Feature Tracks for Structure from Motion Evaluation
Joseph DeGol, Jae Yong Lee, Rajbir Kataria, Daniel Yuan, Timothy Bretl, Derek Hoiem
3DV, 2018

SKILLS

Advanced / Experienced
- Web Development: Express, **MongoDB**, **Webpack**, Flask, SQL, React
- Machine Learning: TensorFlow (C++ / Python), **PyTorch**
- Graphics: Potree, **Three.js**, **WebGL**, OpenGL, **GLSL**, **Unity3D**, **OpenCV**, QT5.0
- AWS: **EB**, **EC2**, **S3**, SQS, CloudFront, **IAM**, **Lambda**
- Version Control: **git** / svn
- Programming Languages: **JavaScript**, **C++**, **Python,** C#, C, Haskell, Common / Emacs Lisp, MATLAB

AWARDS

Best Vocal Presentation Award   Urbana-Champaign, IL
Promoting Undergraduate Research, University of Illinois   December 2014