

SouYoung Jin

PhD Candidate

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Education

University of Massachusetts Amherst (UMass Amherst)

PhD Candidate, College of Information and Computer Sciences (CICS)

Amherst, MA, United States

Sep. 2014 – Present

- Advisor: Prof. Erik Learned-Miller
- Research Interests: unsupervised learning, movie/video understanding, common-sense reasoning

Korea Advanced Institute of Science and Technology (KAIST)

MS, Computer Science

Daejeon, South Korea

Sep. 2010 – Aug. 2012

- Advisor: Prof. Ho-Jin Choi

Dongguk University

BS, Computer Science Engineering

Seoul, South Korea

Mar. 2007 – Aug. 2010

- The early graduation of excellent students (3.5 years, 1/83)

Publications

- Ashish Singh*, Hang Su*, **SouYoung Jin**, Huaizu Jiang, Chetan Manjesh, Geng Luo, Ziwei He, Li Hong, Erik G. Learned-Miller, and Rosemary Cowell. **Half&Half: New Tasks and Benchmarks for Studying Visual Common Sense**. CVPR 2019 Workshop on Vision Meets Cognition, Jun. 2019.
- Aruni RoyChowdhury, Prithvijit Chakrabarty, Ashish Singh, **SouYoung Jin**, Huaizu Jiang, Liangliang Cao and Erik Learned-Miller. **Automatic adaptation of object detectors to new domains using self-training**. Computer Vision and Pattern Recognition (CVPR), Jun. 2019.
- **SouYoung Jin***, Aruni RoyChowdhury*, Huaizu Jiang, Ashish Singh, Aditya Prasad, Deep Chakraborty, and Erik Learned-Miller. **Unsupervised Hard Example Mining from Videos for Improved Object Detection**. European Conference on Computer Vision (ECCV), 16 pages, Sep. 2018.
- **SouYoung Jin**, Hang Su, Chris Stauffer, and Erik Learned-Miller. **End-to-end face detection and cast grouping in movies using Erdos-Renyi clustering**. International Conference on Computer Vision (ICCV), 10 pages, Oct. 2017. ([Spotlight](#))
- **Sou-Young Jin**, Ho-Jin Choi, and Yu-Wing Tai. **A Randomized Algorithm for Natural Object Colorization**. Computer Graphics Forum (Special Issue on Eurographics), vol. 33, no. 2, 2014.
- **Sou-Young Jin**, Suwon Lee, Nur Aziza Azis, and Ho-Jin Choi. **Jigsaw Puzzle Image Retrieval via Pairwise Compatibility Measurement**. International Conference on Big Data and Smart Computing (BigComp), pages 123 – 127, Jan. 2014.
- **Sou-Young Jin** and Ho-Jin Choi. **Essential Body-Joint and Atomic Action Detection for Human Activity Recognition Using Longest Common Subsequence Algorithm**. Lecture Notes in Computer Science, vol. 7729, pages 148-159, 2013.
- **Sou-Young Jin**, Ho-Jin Choi, and Youssef Iraqi. **Depth Consistency Evaluation for Error-Pose Detection**. International Conference on Machine Vision (ICMV), Nov. 2013.
- **Sou-Young Jin**, Ho-Jin Choi. **Clustering Space-Time Interest Points for Action Representation**. International Conference on Machine Vision (ICMV), Nov. 2013.
- **Sou-Young Jin**, Young-Seob Jong, Chankyu Park, Kyo-Joong Oh, and Ho-Jin Choi. **An Intelligent Multi-Sensor Surveillance System for Elderly Care**. Smart Computing Review, vol. 2, no. 4, August 2012. ([Outstanding Paper in SCTA¹](#))
- **Sou-Young Jin**, Jae-Kyung Won, Hojin Lee, and Ho-Jin Choi. **Construction of Automated Screening System to**

¹International Conference on Smart Convergence Technologies and Applications

Predict Breast Cancer Diagnosis and Prognosis. Basic and Applied Pathology, vol. 5, issue 1, pages 15-18, Mar. 2012.

Experience

Computer Vision Lab, UMass Amherst

Research Assistant

- Advisor: Prof. Erik Learned-Miller
- Object detection, tracking, clustering in unlabeled videos

Amherst, MA, United States

Sep. 2014 - Present

Visual Input Team, Microsoft, AI and Research

Research Intern

- Mentor: Dr. Lei Zhang
- Learning to disentangle feature representations by interchanging attributes

Redmond, WA, United States

May 2018 - Aug. 2018

Knowledge Engineering and Collective Intelligence Lab, KAIST

Research Assistant

- Advisor: Prof. Ho-Jin Choi
- Action recognition, multi-sensor surveillance system, natural language question & answering system

Daejeon, South Korea

Sep. 2010 - Mar. 2014

Teaching

Teaching Assistant

- COMPSCI 688 (Graphical Models), UMass Amherst, Spring 2019
- CS476/BiS481 (Collective Intelligence in Biomedical Application), KAIST, Fall 2012, Fall 2013
- CS457 (Web-based Software Development), KAIST, Spring 2013
- ED100 (Freshman Design Course), KAIST, Spring 2011, Fall 2011

Services

Reviewing

- International Conference in Computer Vision (ICCV) 2019
- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2017, 2018, 2019
- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) 2017, 2018
- Pattern Recognition (PR) 2016
- Symposium on Optimization and Information Systems (COSI) 2013
- International Conference on Pattern Recognition (ICPR) 2012

Student Volunteer

- IEEE International Conference on Computer Vision (ICCV) 2017
- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2015, 2016
- Eureka! at UMass Amherst for high school female students in engineering and computer science, Summer 2019