

Jong-Chyi Su

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Research Interests

My research focuses on building robust machine perception models under the circumstances of limited labeled training data. For example, using self-supervised and semi-supervised learning methods to improve few-shot learning on realistic fine-grained classification datasets, and how to transfer learned representations and domain adaptation problems.

Education

Ph.D. Candidate, Computer Science, University of Massachusetts, Amherst Sep. 2015 - Present
M.S., Computer Science, University of California, San Diego Sep. 2013 - Jun. 2015
B.S., Electrical Engineering, National Taiwan University Sep. 2008 - Jun. 2012

Publications

Preprints

[1] **When Does Self-supervision Improve Few-shot Learning?**

Jong-Chyi Su, Subhransu Maji, Bharath Hariharan

arXiv preprint arXiv:1910.03560, 2019.

[2] **Active Adversarial Domain Adaptation**

Jong-Chyi Su, Yi-Hsuan Tsai, Kihyuk Sohn, Buyu Liu, Subhransu Maji, Manmohan Chandraker

arXiv preprint arXiv:1904.07848, 2019.

Conferences

[1] **A Deeper Look at 3D Shape Classifiers**

Jong-Chyi Su, Matheus Gadelha, Rui Wang, Subhransu Maji

Second Workshop on 3D Reconstruction Meets Semantics at ECCV, 2018

[2] **Reasoning about Fine-grained Attribute Phrases using Reference Games**

Jong-Chyi Su*, Chenyun Wu*, Huaizu Jiang, Subhransu Maji

International Conference on Computer Vision (ICCV), 2017

[3] **Adapting Models to Signal Degradation using Distillation**

Jong-Chyi Su, Subhransu Maji

British Machine Vision Conference (BMVC), 2017

Journal

[1] **Depth Estimation and Specular Removal for Glossy Surfaces Using Point and Line Consistency with Light-Field Cameras**

Michael Tao, **Jong-Chyi Su**, Ting-Chun Wang, Jitendra Malik, and Ravi Ramamoorthi

IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI), Volume 38 Issue 6, June 2016.

Work Experience

Computer Vision Lab, UMass-Amherst

Research Assistant, **Supervisor: Prof. Subhransu Maji**

fine-grained recognition, domain adaptation, few-shot learning, vision and language

Amherst, MA

Sep. 2015 - Present

NEC Labs America Media Analytics Team

Summer Research Assistant, **Supervisor: Dr. Yi-Hsuan Tsai, Prof. Manmohan Chandraker**

domain adaptation, object detection, active learning

Cupertino, CA

Jun. 2018 - Aug. 2018

AWS Deep Learning Team

Applied Scientist Intern, **Supervisor: Dr. R. Manmatha, Prof. Deva Ramanan**
image translation with generative adversarial networks and nearest neighbor search.

Palo Alto, CA
Jun. 2017 - Aug. 2017

Computer Vision Lab, UCSD

Research Assistant, **Supervisor: Prof. Ravi Ramamoorthi**
depth estimation for images from light field cameras.

San Diego, CA
Jul. 2014 - Dec. 2014

Rady School of Management, UCSD

Research Assistant **Supervisor: Prof. Hyoduk Shin**

San Diego, CA
Mar. 2014 - Apr. 2014

Synaptics, Inc.

System Engineer Intern

Taipei, Taiwan
Jul. 2011 - Aug. 2011

Teaching Experience

Teaching Assistant, UMass-Amherst

- COMPSCI 682, Neural Networks: A Modern Introduction

Amherst, MA
Spring 2018, Fall 2018

Teaching Assistant, UCSD

- CSE 250B, Machine Learning
- CSE 150, Introduction to Artificial Intelligence
- CSE 140, Components and Design Techniques for Digital Systems

San Diego, CA
Winter 2015
Summer 2014
Spring 2014, Spring 2015

Professional activities

Reviewer: ICCV 2019, CVPR {2018,2019}, ACCV 2018, WACV 2020, PAMI
Outstanding Reviewer: CVPR 2018

Skills and Languages

Programming Languages: Python, Matlab, C/C++

Tools: PyTorch, Tensorflow, MXNet, Matconvnet

Languages: proficient in English and Chinese