

# Jong-Chyi Su

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## Education

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Ph.D., 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

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### *Preprint*

1. **Semi-Supervised Fine-Grained Recognition Challenge at FGVC7**  
Jong-Chyi Su, Subhransu Maji  
*arXiv preprint arXiv:2103.06937*, 2021.
2. **Unsupervised Discovery of Object Landmarks via Contrastive Learning**  
Zezhou Cheng, Jong-Chyi Su, Subhransu Maji  
*arXiv preprint arXiv:2006.14787*, 2020.

### *Conference*

1. **A Realistic Evaluation of Semi-Supervised Learning for Fine-Grained Classification**  
Jong-Chyi Su, Zezhou Cheng, Subhransu Maji  
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR) (oral)*, 2021.
2. **When Does Self-supervision Improve Few-shot Learning?**  
Jong-Chyi Su, Subhransu Maji, Bharath Hariharan  
*European Conference on Computer Vision (ECCV)*, 2020.
3. **Active Adversarial Domain Adaptation**  
Jong-Chyi Su, Yi-Hsuan Tsai, Kihyuk Sohn, Buyu Liu, Subhransu Maji, Manmohan Chandraker  
*Winter Conference on Applications of Computer Vision (WACV)*, 2020.
4. **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
5. **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
6. **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

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**Computer Vision Lab, UMass-Amherst** Amherst, MA  
Research Assistant, **Supervisor: Subhransu Maji** Sep. 2015 - Present  
transfer/semi-/self-supervised/few-shot learning, fine-grained recognition, domain adaptation, vision and language

**Facebook AI, AI commerce team** Remote  
Research Intern, **Supervisor: Omkar Parkhi, Tamara Berg** Jun. 2020 - Aug. 2020  
generating catalog images of clothing items using generative models

**NEC Labs America, Media Analytics Team** Cupertino, CA  
Summer Research Assistant, **Supervisor: Yi-Hsuan Tsai, Manmohan Chandraker** Jun. 2018 - Aug. 2018  
domain adaptation, object detection, active learning

**AWS, Deep Learning Team** Palo Alto, CA  
Applied Scientist Intern, **Supervisor: R. Manmatha, Deva Ramanan** Jun. 2017 - Aug. 2017  
image translation with generative adversarial networks and nearest neighbor search

**Computer Vision Lab, UCSD** San Diego, CA  
Research Assistant, **Supervisor: Ravi Ramamoorthi** Jul. 2014 - Dec. 2014  
depth estimation for images from light field cameras

## Teaching Experience

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**Teaching Assistant, UMass-Amherst** Amherst, MA  
• COMPSCI 682, Neural Networks: A Modern Introduction Spring 2018, Fall 2018, Fall 2020  
• COMPSCI 370, Introduction to Computer Vision Spring 2021

**Teaching Assistant, UCSD** San Diego, CA  
• CSE 250B, Machine Learning Winter 2015  
• CSE 150, Introduction to Artificial Intelligence Summer 2014  
• CSE 140, Components and Design Techniques for Digital Systems Spring 2014, Spring 2015

## Professional activities

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Organizer: FGVC workshop at CVPR 2020, 2021 (semi-supervised challenges).  
Journal Reviewer: PAMI, IJCV, IROS  
Conference Reviewer: CVPR, ICCV, ECCV, ACCV, WACV 2018, 2019, 2020, 2021  
Outstanding Reviewer: CVPR 2018  
Graduate Student Representative (UMass Amherst CICS) 2020-2021.

## Skills and Languages

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Programming Languages: Python, Matlab, C/C++  
Libraries: PyTorch, Tensorflow, MXNet, Matconvnet, NumPy, OpenCV