Chenyun Wu

Computer Vision PhD Candidate

College of Information and Computer Sciences
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Education

Ph.D. in Computer Science 09/2015 ~ 05/2021
University of Massachusetts Amherst, GPA: 4.0/4.0
Thesis (proposed): Understanding of visual domains via the lens of natural language
Committee (proposed): Subhransu Maji (chair), Erik Learned-Miller, Mohit Iyyer, Zhe Lin

Master in Computer Science 09/2015 ~ 05/2018
University of Massachusetts Amherst, GPA: 4.0/4.0
Thesis: Visual Geo-Localization with Action Planning on Realistic Maps

Bachelor of Physics 09/2011 ~ 07/2015
Peking University, Beijing, China, GPA: 3.6/4.0
Graduated with "Weiming Xuezi" Scholarship

Bachelor of Computer Software 09/2012 ~ 07/2015
Peking University, Beijing, China, GPA: 3.7/4.0

Summer Undergraduate Research 06/2014 ~ 09/2014
Computer Science Department, Carnegie Mellon University
Advisor: Daniel Sleator
Project: Impartial Redistricting: A Markov Chain Approach

Publications

Conferences:

- **Chenyun Wu**, Mikayla Timm, Subhransu Maji. Describing Textures using Natural Language. Proceedings of the European Conference on Computer Vision (**ECCV**), 2020 (**Oral, acceptance rate 2.0%**).
- **Chenyun Wu**, Zhe Lin, Scott Cohen, Trung Bui, Subhransu Maji. PhraseCut: Language-based Image Segmentation in the Wild. IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2020.
- Jong-Chyi Su*, **Chenyun Wu***, Huaizu Jiang, Subhransu Maji. Reasoning about Fine-grained Attribute Phrases using Reference Games. International Conference on Computer Vision (**ICCV**), 2017. (*: Equal contribution).

Journals (on physics):

- Fan Zhang, Xiaoyong Hu, **Chenyun Wu**, Hong Yang, Qihuang Gong. Composite modulation of Fano resonance in plasmonic microstructures by electric-field and microcavity. Applied Physics Letters. 2014 Nov 3;105(18):181114.
- Cuicui Lu, Xiaoyong Hu, Xiaoyang Liu, Xiao Ma, **Chenyun Wu**, Hong Yang, Qihuang Gong. Multi-color photon sorting in plasmonic microcavities. Journal of Optics. 2013 Nov 27;16(1):015003.

Industry Experience

ByteDance AI Lab, Mountain View, CA, US 06/2020 ~ 09/2020

Research Intern
Mentors: Shen, Xiaojie Jin, Longyin Wen
Project: Localizing clips in videos with natural language descriptions

Adobe Creative Intelligence Lab, San Jose, CA, US 06/2020 ~ 09/2020

Research Intern
Mentors: Zhe Lin, Scott Cohen, Trung Bui
Project: Language-based Image Segmentation in the Wild

Google Research and Machine Perception Team, Mountain View, CA, US 06/2020 ~ 09/2020

Software Engineering Intern
Mentors: Nick Johnston, George Toderici, David Minnen, Michele Covell
Project: Deep image compression with U-Net

Teaching Experience

PhD student mentor, Data Science for the Common Good Program at UMass 06/2020 ~ 09/2020

- Mentored two master's students (Vaishnavi Kommaraju and Ananya Gupta) to collaborate with Prof. Eric Poehler from Department of Classics, UMass Amherst.
- Applied computer vision techniques to improve Pompeii Artistic Landscape Project.

Teaching assistant, CICS UMass Amherst

- COMPSCI 682: Neural Networks: A Modern Introduction Spring 2017
- COMPSCI 670: Computer Vision Fall 2017, Fall 2018, Fall 2020
- COMPSCI 370: Introduction to Computer Vision Spring 2018
- COMPSCI 240: Reasoning Under Uncertainty Spring 2016
- COMPSCI 121: Introduction to Problem Solving with Computers Fall 2015, Summer 2016
- COMPSCI 105: Computer Literacy Fall 2016

Service

- Reviewer for CVPR, WACV, ACCV, ICVGIP
- Student volunteer for NeurIPS 2020
- Volunteer organizer for Machine Learning and Friends Lunch, UMass Amherst