Jane Wu

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ACADEMIC EMPLOYMENT

University of California, Berkeley 2023 -
Postdoctoral Fellow, Electrical Engineering & Computer Science *Berkeley, CA*
Advisor: Jitendra Malik

EDUCATION

Stanford University 2018 - 2023
Ph.D., Computer Science *Stanford, CA*
Advisor: Ronald Fedkiw

Harvey Mudd College 2014 - 2018
B.S., Computer Science, Mathematics *Claremont, CA*
Graduated with high distinction and departmental honors in Computer Science

HONORS AND AWARDS

Mathematical Sciences Postdoctoral Research Fellowship, National Science Foundation 2023 –

UC President's Postdoctoral Fellowship, University of California, Berkeley 2023 –

METEOR Postdoctoral Fellowship, MIT CSAIL (went to UC Berkeley) N/A

Rising Stars in Computer Graphics, Women in Computer Graphics Research (WiGRAPH) 2022 – 2023

Gerald J. Lieberman Fellowship, Stanford University 2022 – 2023
Awarded annually to twelve doctoral students across schools

JEDI Appreciation Award, Stanford Computer Science 2021
For ongoing dedication towards justice, equity, diversity, and inclusion (JEDI)

Two Sigma Ph.D. Fellowship Runner Up, Two Sigma 2021

Stanford School of Engineering Fellowship, Stanford University 2018 – 2019

CS230 Deep Learning Final Project Prize, Stanford University Fall 2018

Don Chamberlin Research Award, Harvey Mudd College 2018
For successfully completing a significant piece of computer science research

Computer Science Clinic Team Award, Harvey Mudd College 2018
Recognizing service to the team, the sponsor, and the entire CS Clinic Program

CRA Outstanding Undergraduate Researcher Award, Computing Research Association 2017

RESEARCH AND WORK EXPERIENCE

Research Assistant, Stanford Artificial Intelligence Lab, Stanford University 9/2018 - 9/2023
Advisor: Ronald Fedkiw

Research Intern, Project Starline, Google 6/2021 - 9/2021, 6/2022 - 6/2023
Managers: Michael Broxton, Lynn Tsai

R&D Software Engineer, Simulation Technology, NVIDIA 9/2021 - 6/2022
Manager: Ken Museth

Research Intern, AI-Algorithms Team, NVIDIA Research 6/2020 - 9/2020
Manager: Anima Anandkumar

Autonomous Vehicles Intern, AV Obstacle Perception Team, NVIDIA 6/2019 - 6/2020, 9/2020 - 6/2021
Manager: Sangmin Oh

Technical Assistant, Controls and Dynamical Systems, California Institute of Technology 6/2018 - 8/2018
Advisors: Richard Murray, Christopher Clark

Undergraduate Researcher, Lab for Autonomous and Intelligent Robotics, Harvey Mudd 1/2017 - 8/2018
Advisor: Christopher Clark

Undergraduate Researcher, Human Experience and Agent Teamwork Lab, Harvey Mudd 9/2015 - 5/2016
Advisor: Jim Boerkoel

PUBLICATIONS

1. "Weakly-Supervised 3D Reconstruction of Clothed Humans via Normal Maps ", **J. Wu**, Thomas, Fedkiw, arXiv: 2311.16042, November 2023.
2. "HazardNet: Road Debris Detection by Augmentation of Synthetic Models", Choe, **J. Wu**, Lin, Kwon, Park, CVPR Workshop on Autonomous Driving, June 2023.
3. "Deep Energies for Estimating Facial Pose and Expression", **J. Wu**, Bao, Yao, Fedkiw, Communications on Applied Math and Computation, March 2023.
4. "Recovering Geometric Information with Learned Texture Perturbations", **J. Wu**, Jin, Geng, Zhou, Fedkiw, Symposium on Computer Animation (SCA), September 2021.
5. (Preprint) "Skinning a Parameterization of Three-Dimensional Space for Neural Network Cloth", **J. Wu**, Geng, Zhou, Fedkiw, arXiv: 2006.04874, June 2020.
6. "Virtual Planning and Testing of AUV Paths for Underwater Photogrammetry", Lewis, Yager, Keller, Galvan, Bingham, Ting, **J. Wu**, Gambin, Clark, Wood, International Joint Conference on Computer Vision, Imaging, and Computer Graphics Theory and Applications (VISIGRAPP), February 2020.
7. "Multi-AUV Motion Planning for Archaeological Site Mapping and Photogrammetric Reconstruction", **J. Wu**, Bingham, Ting, Yager, Wood, Gambin, Clark, Journal of Field Robotics, August 2019.
8. "Intelligent Shipwreck Search Using Autonomous Underwater Vehicles", Rutledge, Yuan, **J. Wu**, Wood, Gambin, Clark, IEEE International Conference on Robotics and Automation (ICRA), May 2018.
9. "Trust and Cooperation in Human-Robot Decision Making", **J. Wu**, Paeng, Boerkoel et al., AI-HRI, AAAI Fall Symposium Series, November 2016.
10. "Human-Robot Trust and Cooperation Through a Game Theoretic Framework", Paeng, **J. Wu**, Boerkoel, AAAI Student Abstract, February 2016.
11. "Towards directed energy planetary defense", Lubin et al., SPIE: Optical Engineering, February 2014.
12. "Directed energy planetary defense", Lubin et al., SPIE Proceedings, Vol. 8876, September 2013.

LEADERSHIP AND SERVICE

Organizer, 8th Annual Stanford-Berkeley Women in CS/EE Research Meetup 4/2022

Founding Member, Stanford CS Ph.D. Student Advisory Council 8/2020 - 6/2022

Co-chair, Stanford Graduate Women in Computer Science (WiCS) 6/2019 – 6/2021

Student member, Computer Science Diversity Committee, Stanford University 9/2020 – 6/2021

Student reader, Computer Science Ph.D. Admissions Committee, Stanford University 11/2019 – 3/2021

Co-organizer, Workshop on Deformable Object Simulation in Robotics, RSS 2021

Conference Reviewer, WACV 2022-2024, CVPR 2022-2023, 3DV 2022, ECCV 2022, ICCV 2023

TEACHING EXPERIENCE

Course Assistant, Stanford University CS Department Fall 2019 - Winter 2022

· CS148: Introduction to Computer Graphics and Imaging (Fall 2019 – 2021)

· CS205L: Continuous Mathematical Methods (Winter 2020 – 2022)

GRANTS

Sony Research Grant, Fedkiw Lab 2021

· Wrote proposal to implement cloth reconstruction research on the PlayStation5. Awarded $100k.