

SHENG-YU WANG

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EDUCATION

Carnegie Mellon University, The Robotics Institute

August 2020 - Present

Ph.D. Robotics

Advisor: Jun-Yan Zhu

University of California, Berkeley

August 2015 - May 2019

B.A. Computer Science, B.A. Applied Mathematics

GPA: 3.95/4.0

Minor in Physics

HONORS AND AWARDS

Google PhD Fellowship

Nov 2024

Top Reviewer

NeurIPS 2023

Snap PhD Fellowship

Dec 2022

Uber Presidential Fellowship

Sep 2021

Outstanding Undergraduate Scholarship and Research (UC Berkeley CS Department)

May 2019

Summer Undergraduate Research Fellowships (UC Berkeley College of Letters & Science)

Jun 2018

2nd Place Award - Cal Hacks 3.0

Nov 2016

PUBLICATIONS

Kumari, N., Wang, S.-Y., Zhao, N., Nitzan, Y., Li, Y., Singh, K., Zhang, R., Shechtman, E., Zhu, J.-Y., Huang, X. **NP-Edit: Learning an Image Editing Model without Image Editing Pairs.** Tech Report, 2025.

Wang, S.-Y., Hertzmann, A., Efros, A., A., Zhu, J.-Y., and Zhang. R. **Fast Data Attribution for Text-to-Image Models.** In NeurIPS 2025.

Su, G., Wang, S.-Y., Hertzmann, A., Schectman, E., Zhu, J.-Y., and Zhang. R. **Identifying Prompted Artist Names from Generated Images.** Tech Report, 2025.

Wang, S.-Y., Hertzmann, A., Efros, A., A., Zhu, J.-Y., and Zhang. R. **Data Attribution for Text-to-Image Models by Unlearning Synthesized Images.** In NeurIPS 2024.

Jone, M., Wang, S.-Y., Kumari, N., Bau, D., and Zhu, J.-Y. **Customizing Text-to-Image Models with a Single Image Pair.** In SIGGRAPH Asia, 2024.

Wang, S.-Y., Efros, A., A., Zhu, J.-Y., and Zhang. R. **Evaluating Data Attribution for Text-to-Image Models.** In ICCV 2023.

Kumari, N., Zhang, B., Wang, S.-Y., Schectman, E., Zhang, R., and Zhu, J.-Y. **Ablating Concepts in Text-to-Image Diffusion Models.** In ICCV 2023.

Lu, D.^{*}, Wang, S.-Y.^{*}, Kumari, N.^{*}, Agarwal, R.^{*}, Bau, D., and Zhu, J.-Y. **Content-Based Search for Deep Generative Models.** In SIGGRAPH Asia, 2023.

Wang, S.-Y., Bau, D., and Zhu, J.-Y. **Rewriting Geometric Rules of a GAN.** In SIGGRAPH 2022.

Wang, S.-Y., Bau, D., and Zhu, J.-Y. **Sketch Your Own GAN**. In ICCV 2021.

Wang, S.-Y., Owens, A., Wang, O., Zhang, R., and Efros, A., A. **CNN-generated images are surprisingly easy to spot... for now**. In CVPR 2020.

Wang, S.-Y., Wang, O., Owens, A., Zhang, R., and Efros, A., A. **Detecting Photoshopped Faces by Scripting Photoshop**. In ICCV 2019.

Shi, W., Kahn, S., Jiang, L., Wang, S.-Y., Tsai, H.-Z., Wong, D., Taniguchi, T., Watanabe, K., Wang, F., Crommie, M., and Zettl, A. **Reversible writing of high mobility and high carrier density doping patterns in two-dimensional van der Waals heterostructures**. In Nature Electronics, 2020.

SELECTED PUBLICITY

Adobe MAX (Sneak Peek). *Project About Face*. Nov 2019

The Verge. *Adobe's prototype AI tool automatically spots Photoshopped faces*. Jun 2019

TALKS

Data Attribution for Text-to-Image Models

- CMU Thesis Proposal Talk Nov 2024
- MIT May 2025

Rewriting Geometric Rules of a GAN

- SIGGRAPH Aug 2022

Detecting Image Synthesis – Shallow and Deep

- HPA tech retreat Mar 2021
- Carnegie Mellon University, VASC seminar Nov 2020

Detecting Photoshopped Faces by Scripting Photoshop

- VGG Visitors Workshop, Oxford, UK Sep 2019

WORK EXPERIENCES

Adobe Research

- Research Scientist Intern May 2022 - Present

ACADEMIC SERVICES

Papers reviewed

Computer Vision and Pattern Recognition (CVPR)	2020,2021,2022,2023,2024,2025
International Conference on Computer Vision (ICCV)	2021,2023,2025
European Conference on Computer Vision (ECCV)	2022,2024
ACM SIGGRAPH	2022,2024,2025
ACM SIGGRAPH Asia	2022,2024,2025
Transactions on Pattern Analysis and Machine Intelligence (TPAMI)	2022,2023
Neural Information Processing Systems (NeurIPS)	2021,2022,2023,2024,2025
International Conference on Learning Representations (ICLR)	2022
Nature	2025

RESEARCH MENTORING

Daohan (Fred) Lu(MSCV 2023), now PhD student at NYU
Rohan Agarwal(MSCV 2023), now research engineer at Runway
Mia Tang(Undergrad 2023), now PhD student at Stanford
Maxwell Jones(MSML 2024), now PhD student at CMU
Grace Su(MSR 2025), now PhD student at UMD
Steven Yu(Undergrad)