

Max Wolff

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EDUCATION

Wesleyan University

BA, Physics

Middletown, CT, USA

2021 – 2025 (*expected*)

EXPERIENCE

Research Intern

Max Planck Institute for Intelligent Systems

- Basic machine learning research in Wieland Brendel's group.

May 2022 – Present

Tübingen, Germany

Research

Wolff Household

- Did basic machine learning research with my father, and we published two papers together. One was on the security of neural text detectors and was accepted to a workshop at ICLR 2020; the other was on gaining a better understanding of feature preference in CNNs and was accepted to SVRHM 2021.

January 2020 – May 2021

Los Angeles, CA, USA

Volunteer/Engineer

AI4K12

- Built a web-based educational demonstration of facial detection using TinyYOLOv2. This was done under the supervision of David Touretzky at Carnegie Mellon.

August 2020 – April 2021

Remote

Research Intern

Carnegie Mellon University

- Worked remotely with Mahmood Sharif on improving the security of facial recognition algorithms.

July 2019 – November 2019

Remote

Research Intern

University of Illinois at Urbana-Champaign

- Worked with Professor Christopher Fletcher on using capsule networks for unsupervised learning and generative modeling.

June 2018 – August 2018

Urbana, IL, USA

PUBLICATIONS

The Independent Compositional Subspace Hypothesis for the Structure of CLIP's Last Layer

Max Wolff, Wieland Brendel, Stuart Wolff

Me-FoMo @ ICLR 2023

Signal Strength and Noise Drive Feature Preference in CNN Image Classifiers

Max Wolff, Stuart Wolff

SVRHM @ NeurIPS 2021

Attacking Neural Next Detectors

Max Wolff, Stuart Wolff

Trustworthy Machine Learning @ ICLR 2020

TECHNICAL SKILLS

Programming Languages: Python

Frameworks: PyTorch, TensorFlow

Languages: English, German (in progress)