Wenqing Wang
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EDUCATION

Northeastern University, Boston — Sep. 2022 - May 2027 (Expected)
Ph.D., Computer Science

University of California, Davis
Bachelor of Arts & Sciences, Psychology and Computer Science — Sep. 2018 - Jun. 2022

RESEARCH INTERESTS

- Machine Learning
- Computer Vision
- Natural Language Processing
- Embodied AI

RESEARCH EXPERIENCE

Research Assistant, Artificial Intelligence — Sep. 2022 - Present
Dr. Stacy Marsella, Professor, Northeastern University
- Created an online-objects-delivery simulation to collect human-robot interaction data
- Utilized AWS CloudWatch to log experiment data
- Developed hierarchical deep Bayesian Reinforcement Learning methods for POMDPs
- Incorporated shared mental models into POMDP model to improve human-robot interaction

Research Assistant, Primate Identification — Jun. 2021 - Jun. 2022
Dr. Andrew Fox, Assistant Professor of Psychology, UC Davis
- Designed deep learning models to identify primates based on their behaviors and body features
- Utilized Mask-R CNN with bounding boxes and key points to detect primates
- Collaborated with interdisciplinary teams and communicated ideas
- Analyzed data

Research Assistant, Gender Bias in STEM — Jan. 2021 - Jun. 2021
Dr. Setareh Rafatirad, Assistant Professor of Computer Science, UC Davis
- Extracted Wikipedia information of notable people in the given fields using SPARQL and DBpedia APIs
- Developed computer vision models using OpenCV to detect the races and genders of the given people from their profile pictures
- Visualized the model results using Matplotlib

Research Assistant, Attention — Jul. 2019 - Jun. 2022
Dr. George Mangun, Distinguished Professor of Psychology and Neurology, UC Davis
- Developed a deep normalization network model of attention using VGG-16
- Studied visual-spatial attention
- Analyzed EEG data

Research Assistant, Evolution of Altruism — Jun. 2019 - Jun. 2022

Dr. Jeffrey Schank, Professor of Psychology, UC Davis
- Developed an agent-based model with MASON library to study the emergence of altruism in the public goods game
- Investigated the effects of sharing and cooperation on group fitness
- Visualized model results using ggplot2

SKILLS

- **Programming Languages:** Python, Java, C++, JavaScript, HTML, CSS, SQL, R, MATLAB
- **Frameworks:** TensorFlow, PyTorch, Scikit-learn, OpenCV, Natural Language Toolkit, Gym, NumPy, Pandas, Matplotlib, Seaborn, Node.js, React, Git, Make, Docker, Amazon Web Services, Google Cloud Platform
- **Languages:** English, Chinese