

Jingfeng (Craig) Zhang

Campus Address: 209 E University Ave, Champaign, IL 61820
(217)-819-7431 · jz44@illinois.edu

EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Master of Science in Psychological Science

- Concentration in Cognitive Psychology
- GPA: 4.00/4.00

Expected Graduation
May 2022
Champaign, IL

Bachelor of Science in Research and Experimental Psychology

- Concentration in Cognitive Neuroscience
- GPA: 3.74/4.00

May 2020

PENNSYLVANIA STATE UNIVERSITY PARK

Bachelor of Science in Psychology

- Concentration in Cognitive Neuroscience
- GPA: 3.78/4.00

Transferred
May 2018
State College, PA

PRESENTATION

Zhang, JF. & Willits, J. A., (2021, May). The Simulation Of The Human Learning Process. Presentation in the Master of Science in Psychological Science Research Fair, UIUC, Urbana-Champaign, IL

RESEARCH EXPERIENCE

LEARNING AND LANGUAGE LAB

Principle investigator: Dr. Jon Willits

Graduate Lab Assistant / Conductor

January 2019 - Present
Champaign, IL

- Initiated a project with Dr. Willits to investigate the topic of learning and knowledge representation, utilizing Unity (C#) to create a simulation that uses neural networks and visualizes the learning process
(Github:<https://github.com/cracrazjf/The-Dawn-of-Psychology>)
 - Developed evolutionary algorithm (instantiating phenotypes and genotypes) for “living objects” in order to generate them with statistical distributions of properties
 - Transcribed images into matrices and used them as input for artificial intelligence
 - Built motor system including creating animations, realized movement by implementing and coded with “configurable joint” component in Unity
 - Supervised 3D model creation of animals, plants and objects
 - Programmed back propagated AI systems using prediction and reinforcement learning
 - Designed User interface systems that could visualize the neural network learning and also facilitate monitoring the environment

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LEARNING AND LANGUAGE LAB

Principle investigator: Dr. Jessica Montag

Undergraduate Lab Assistant (volunteer since Jan 2019)

- Aided in study that investigated children language acquisition using day-long recordings and eye tracking
 - Transcribed audio of infants to analyze their development of language under the normal circumstances
 - Assisted with eye-tracking experiments to help understand vocabulary and semantic development in infants and toddlers
 - Helped PhD students to accomplish their experiment with coding, photoshoping and video-cutting

January 2019 - August 2021
Champaign, IL

DEEPNET DISCUSSION GROUP

Principle investigator: Dr. Diane Beck & Dr. Jon Willits

Participant

- Participated in the discussion about potential topics combining cognitive neuroscience psychology and deep learning.
 - Discussed the idea that DeepNets can inform human vision and cognition
 - Presented own projects and share your accomplishments with group members
 - Offered opinions about possible projects
 - Read and discussed materials that are related to Deep learning and human cognition

January 2020 - August 2021
Champaign, IL

PROGRAMING EXPERIENCE

FIRST PERSON SHOOTING GAME

Conductor & Game developer & Programmer

- Simplified first person shooting game designed to fulfill my game development interest while learning coding, and game designing skills (GitHub: <https://github.com/cracrazjf/FirstPersonShooter-Game>)
 - Programed all aspects of video games, such as model, animation, interface, scripts, etc
 - Troubleshoot game programing
 - Researched different animation approaches

September 2020 - Present
Champaign, IL

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ACTIVITIES

WENFENG PSYCHOLOGY COUNSELING/ *Volunteer*

Supervisor: Dr. Daorong Wang

- An activity held by the Yangzhou government and Yangzhou psychological society designed to help high school students to be psychologically prepared for the upcoming Chinese College Entrance Exam.
 - Provided support to distressed students and their parents through weekly conversations
 - Shadowed a licensed educational psychologist during weekends to learn counseling techniques

ZHONGDU LAW FIRM / *Intern*

Supervisor: Jiyuan Zhang

- Participated in civil courts and drafted collection demand letters
 - Attended three civil court with leading attorney, recorded court details
 - Reviewed legal documents and prepared court materials for the leading attorney
 - Listened in executive meetings, organized meeting agenda, sent out meeting summaries
 - Researched and collected important evidence prior to the civil court

June-August 2018
Yangzhou, China

RELEVANT COURSEWORK

Undergraduate Courses

Cognitive Neuroscience of Vision
Programming and Data Science with R
Cognitive Neuroscience
Intelligence and the Brain
Cognitive Neuroscience Lab
Intro to Computer Science

Graduate Courses

Statistical Methods I and I I
Reading, Language & Cognition
Statistical Reinforcement Learning
Neural Network Modeling Lab

SOFTWARE SKILLS

Microsoft Excel, R, C#, Python, Unity, Blender,