

# **Qingqing Yang**

PhD student in Cognitive Neuroscience | The Ohio State University

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## **Education**

### **The Ohio State University, OSU**

Ph.D. in Cognitive Neuroscience, 4.0/4.0

Advisors: Dr. Hsin-Hung Li & Dr. Julie Golomb

08/2024 – Present  
Columbus, OH

### **New York University, NYU**

M.A. in Psychology, 3.97/4.0

Advisor: Dr. Clayton E. Curtis

09/2021 – 05/2023  
New York, N.Y.

### **Zhejiang University, ZJU**

B.Sc. in Psychology, 3.92/4.0, Rank 5%

Advisor: Dr. Hui Chen

09/2017 – 06/2021  
Zhejiang, China

## **Selected Publications**

\* denotes equal contribution

**Yang Q, Li HH (2025).**

Efficient Allocation of Working Memory Resource for Utility Maximization in Humans and Recurrent Neural Networks.

*Neural Information Processing Systems (NeurIPS)*. [html](#)

**Goldway N, Harhen N, Yang Q, et al (2025).**

Correspondence between reinforcement learning phenotypes and transdiagnostic clinical symptomatology across development.

*Conference on Computational Cognitive Neuroscience (CCN Extended abstracts)*. [html](#)

**Han H W\*, Dhar R\*, Yang Q\* et al. (2024).**

Investigating the role of modality and training objective on representational alignment between transformers and the brain.

*NeurIPS Unireps Workshop. PMLR 285:40-54*. [html](#)

**Xu Y, Yang Q (2024).**

Attention redistribution during event segmentation in Large Language Model.

*NeurIPS Behavioral ML Workshop (Extended abstracts)*. [html](#)

**Zhu P\*, Yang Q\* et al. (2023).**

Working-Memory-Guided Attention Competes with Exogenous Attention but Not with Endogenous Attention.

*Behavioral Sciences*, 13(5), 426. <https://doi.org/10.3390/bs13050426>

## **Selected Conference Presentations**

**Yang Q, Li HH (2025).**

Reward Shapes Resource Allocation in Working Memory.

*Poster presented at Vision Sciences Society (VSS)*. [html](#)

**Yang Q, Li M, & Curtis C (2022).**

Modeling Effects of Interrupting Parietal Cortex Neural Activity on Working Memory Limit.

*Talk presented at the 5th Neurorun Conference. [poster](#)*

## Research Experience

**Assistant Research Scientist, NYU**

08/2021 – 04/2024

PI: Dr. Clayton E Curtis

### **M.A. Thesis: Modeling Working Memory Limit and Parietal Cortex Involvement**

- Developed a MATLAB package for multi-item eye-tracking data analysis ([iEye](#));
- Fitted Variable Precision, Mixture, and Slots models for working memory fidelity;
- Collected and analyzed fMRI data for visual population receptive field maps;
- Applied TMS to intraparietal sulcus (IPS) for causal inference.

**Assistant Research Scientist, NYU**

09/2022 – 04/2024

PI: Dr. Catherine Hartley & Supervisor: Dr. Noam Goldway

### **Computational Phenotyping of Decision Making in Adolescent Psychopathology**

- Implementing online decision-making tasks in JavaScript;
- Adapted Reinforcement Learning Models in Python to qualify decision making phenotypes and their test-retest reliability, with Bayesian modeling;
- Collected and analyzed fMRI data, relate computational phenotypes and clinical symptoms to neural connectivity;

**Research Assistant, ZJU**

05/2019 – 06/2021

PI: Dr. Hui Chen

### ***Undergrad Thesis: Working-Memory-Guided Attention Competes with Exogenous Attention but Not with Endogenous Attention.* [html](#)**

- Conducted 2 behavioral experiments to investigate the mechanism of the attention guided by memory content.

### **Active Inhibition of Attended Information and its Neurocognitive Mechanism**

- Designed 4 experiments and analyzed EEG data from 15 subjects, extracted N2pc, decoded information with MVPA.

## Skills

**Code** : MATLAB, Python, R, Bash, JavaScript, Latex.

**Computational** : Deep Learning, Reinforcement Learning, Bayesian Inference

**Neuroscientific** : Eye-tracking; TMS; MRI; EEG.

## Teaching & Professional Activities

**Conference Reviewer**, NeurIPS Unireps workshop

2024-2025

**Teaching Assistant**, Advanced Psychological Statistics at NYU

2022