

## Qingfang Liu

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- CONTACT INFORMATION** 320 E Superior St  
Feinberg School of Medicine, Northwestern University psychliuqf@gmail.com  
Chicago, IL 60611 (614)966-2557
- RESEARCH INTERESTS** Cognitive Modeling (esp. Response Time Modeling), Learning and Memory, Judgment and Decision Making, Category Learning, Model-Based Cognitive Neuroscience, Bayesian Statistics, Neuroimaging Methods, Stochastic Process
- PROFESSIONAL ACTIVITIES** Postdoctoral Scholar Feb 2021 to present  
• Kahnt Laboratory, Feinberg School of Medicine, Northwestern University  
• Principal Investigator: Thorsten Kahnt, Ph.D.
- EDUCATION** Ph.D., Psychology, The Ohio State University Jan 2021  
• Thesis Topic: *Dynamics of Multi-attribute Decision Making Revealed by Eye-tracking*  
• Advisor: Brandon M. Turner, Ph.D.  
• Committee: Brandon M. Turner, Ph.D., Alexander A. Petrov, Ph.D., & Ian Krajbich, Ph.D.
- M.A., Psychology, The Ohio State University Aug 2018  
• Thesis Topic: *Extensions of Multivariate Dynamical Systems to Simultaneously Explain Neural and Behavioral Data*  
• Committee: Brandon M. Turner, Ph.D., Alexander A. Petrov, Ph.D., & Zhong-Lin Lu, Ph.D.
- MAS, Applied Statistic, The Ohio State University May 2019  
• Committee: Douglas Critchlow, Ph.D., & Steve MacEachern, Ph.D.
- B.S., Beijing Normal University, Beijing, China June 2016  
• Psychology
- OTHER RESEARCH EXPERIENCE** Summer Undergraduate Researcher June-Sep 2015  
• Concordia University, Montreal, Canada  
• Advisor: Roberto G. de Almeida, Ph.D.
- JOURNAL PUBLICATIONS** **Liu, Q.**, Petrov, A. A., Lu, Z.-L., & Turner, B. M. (2020) Extensions of Multivariate Dynamical Systems to simultaneously explain neural and behavioral data. *Computational Brain and Behavior*, 3, 430-457.
- Molloy, M. F., Galdo, M., Bahg, G., **Liu, Q.**, & Turner, B. M. (2019) What's in a response time?: On the importance of response time measures in constraining models of context effects. *Decision*, 6(2), 171
- Turner, B. M., Rodriguez, C. A., **Liu, Q.**, Molloy, F. M., Hoogendijk, M.,

& McClure, S. M. (2018) On the Neural and Mechanistic Bases of Self Control. *Cerebral Cortex*, 29(2), 732-750

IN PREPARATION **Liu, Q.**, & Turner, B. M. (in preparation). Differentiating between option-wise and attribute-wise representation in multi-attribute decision making under a generative modeling framework.

BOOK CHAPTERS Turner, B. M., Bahg, G., Galdo, M., & **Liu, Q.** (in press) Advancements in Joint Modeling of Neural and Behavioral Data. In Forstmann, B. U. & Wagenmakers, E.-J. (Eds.), *An introduction to model-based cognitive neuroscience*. Springer: New York.

AWARDS **Travel Awards**

- Graduate Student Conference Presentation Award, Department of Psychology, The Ohio State University March 2020, March 2019, May 2018
- The 50th Annual Meeting of the Society for Mathematical Psychology, Coventry, UK July 2017

**Student Awards**

- Interdisciplinary Research Awards, Department of Psychology, The Ohio State University Summer 2020
- Summer Research Excellence Awards, Department of Psychology, The Ohio State University Summer 2019
- College of Social and Behavioral Sciences Fellowship, The Ohio State University August 2017
- Distinguished University Fellowship, Graduate School, The Ohio State University 2016, 2020
- Outstanding Graduate Award, Beijing Normal University June 2016

PROFESSIONAL MEMBERSHIPS

- Student Member of the Psychonomic Society 2019, 2020
- Member of the Society for Judgment and Decision Making 2020
- Member of the Society for Mathematical Psychology 2017-2020
- Member of the Society for NeuroEconomics 2020
- Member of the Cognitive Neuroscience Society 2019-2021

TALKS **Interpreting behavioral and neural data together: from a two-step correlational approach to an integrative approach.** Invited Talk for Cognitive Neuroscience Colloquium of the University of California, Berkeley. (Virtual) Oct 2020

**Differentiating between option-wise and attribute-wise representation in multi-attribute decision making under a generative modeling framework.** Presented at the Virtual Process Tracing Conference. (Virtual) Sep 2020

**Extensions of Multivariate Dynamical Systems for simultaneous explanations of neural and behavioral data.** Presented as part of the Computational

Model-Based Cognitive Neuroscience Symposium at the 53rd Annual Meeting of the Society for Mathematical Psychology. (Virtual) July 2020

A spatio-temporal analysis on neural correlates of intertemporal choice. Presented as part of the Graduate Research Forum, Department of Psychology, The Ohio State University. Nov 2019

Extensions of Multivariate Dynamical Systems for simultaneous explanations of neural and behavioral data. Presented at the 51st Annual Meeting of the Society for Mathematical Psychology. Madison, Wisconsin July 2018

Informing Cognitive Models of Self-control and Impulsivity in Intertemporal Choice. Presented at the 50th Annual Meeting of the Society for Mathematical Psychology. Coventry, UK July 2017

#### POSTERS

Differentiating between option-wise and attribute-wise representation in multi-attribute decision making under a generative modeling framework. Presented at the 18th Annual Meeting of the Society for NeuroEconomics. (Virtual) Oct 2020

A spatio-temporal analysis on neural correlates of intertemporal choice. Presented at the 27th Annual Meeting of the Cognitive Neuroscience Society. (Virtual) March 2020

Extensions of Multivariate Dynamical Systems for simultaneous explanations of neural and behavioral data. Presented at the 26th Annual Meeting of the Cognitive Neuroscience Society. San Francisco, California March 2019

Simultaneous simulations of behavioral and neural data in an extension of Multivariate Dynamical Systems framework. Presented at the 7th annual Midwest Cognitive Science Conference. Bloomington, Indiana May 2018

#### TEACHING EXPERIENCE

Teaching Assistant

Psych 2220 - Introduction to Statistical Methods and Data Analysis  
Department of Psychology,  
The Ohio State University Autumn 2017, Spring 2018, Spring 2020

Psych 2300 - Research Methods in Psychology  
Department of Psychology,  
The Ohio State University Autumn 2018, Spring 2019, Autumn 2019

Psych 4543 - Psychology of Gender  
Department of Psychology,  
The Ohio State University Spring 2019

#### SKILLS

C, MATLAB, R, L<sup>A</sup>T<sub>E</sub>X

