

# Zhimei Niu

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## EDUCATION

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**University of Chicago, Division of the Social Sciences** **Sep 2021 – June 2022**

*M.A. in Social Sciences - Psychology Concentration;*

Advised by Yuan Chang Leong, Ph.D

**MA thesis:** *Predicting narrative engagement in political polarization*

**Purdue University, Department of Human and Health Sciences** **Aug 2017 - Aug 2020**

*Bachelor of Science in Brain & Behavioral Science with distinction; GPA: 3.90/4.00*

Advised by Yu-Chin Chiu, Ph.D

**Conference poster presentation:** *Item-specific switch probability manipulation modulates voluntary task switching*

**University of Oxford, St.Edmund Hall, Department of Experimental Psychology** **Oct 2019 - Jul 2020**

*Academic year abroad program in Experimental Psychology; GPA: 3.95/4.00*

Advised by Prof. Maryanne Martin

**Research Project:** *The perspective change in episodic memory recall under emotion-laden experience in social phobia groups*

## HONORS & AWARDS

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*University of Chicago Phoenix Research Award Scholarship, 2021*

*University of Chicago MA Thesis Research Grant, 2021*

*Purdue University HHS Dean's List Honor, 2017-2020*

*University of Oxford Mingos Charter Visiting Student Scholarship, 2019*

*IFSA program Study Abroad Scholarship, 2019*

*Purdue University Sail Aboard Scholarship, 2019*

## PEER-REVIEWED JOURNAL PUBLICATIONS

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Huang, Z; **Niu, Z**; Li, S (in prep). Reactivation-induced memory integration prevents proactive interference in perceptual learning.[manuscript]

## CONFERENCE PROCEEDINGS

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**Niu, Z.** & Duarte, A. (in prep). Double jeopardy: age and depression interactions on cognition and brain volume. *Poster will be presented at Cognitive Neuroscience Society Conference (2023). San Francisco, CA*

**Niu, Z.**, Gross, G & Chuu, Y. (2018). Item-Specific Switch Probability Manipulation Modulates Voluntary Task Switching. *Poster presented at the Purdue University Undergraduate Research Conference. Lafayette, IN*

## ACADEMIC EXPERIENCE

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**Memory and Aging Lab, University of Texas in Austin**

**Full-time Research Coordinator, Advisor: Dr. Audrey Duarte**

**June 2022 – present**

- Research focus: assess how individual differences in sleep, psychosocial factors like depression and discrimination exposure, contribute to those in memory performance and underlying neural activity.
- collecting Behavioral, fMRI, EEG data and Polysomnography sleep recording
- conducting sMRI data processing and analysis independently

- conducting EEG data analysis for a long term sleep study with a newly developed distancing sleep recording device
- working with other lab members on organization of large projects

**Motivation and Cognition Neuroscience Lab, University of Chicago**

**Research Assistant, Advisor: Dr. Yuan Chang Leong**

*July 2021 – June 2022*

- Research topic: Predicting narrative engagement in political polarization
- Running fMRI data analysis: applying new analysis method, predict brain and behavior relationship with regression model
- Training undergraduate students in fMRI analysis with FSL, Matlab, Jupyter notebook

**Psychological and Cognitive Sciences Lab, Peking University**

**Research Assistant, Advisor: Dr. Sheng Li**

*June 2018 – July 2018; July 2019 – September 2019*

- Research topic: Reactivation of learned reward association reduces retroactive interference from new reward learning
- Running EEG experiment with eye fixation detection for visual search learning task
- conducting and analyzing independent pilot fMRI experiment: human figures & scenes in task learning

**Maryanne Martin's Lab, University of Oxford**

**Research Assistant, Advisor: Prof. Maryanne Martin**

*December 2019 – March 2020*

- Research aim: the perspective change in episodic memory recall under emotion-laden experience in social phobia groups
- constructing experimental design, running pilot experiment

**Cognitive Psychology and Neuroscience Lab, Purdue University**

**Research Assistant, Advisor: Dr. Yu-Chin Chiu**

*August 2018 – May 2019*

- Conference poster: Item-specific switch probability manipulation modulates voluntary task switching
- Run experiments: cognitive control & rules learning

**PROFESSIONAL EXPERIENCE**

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**Dornier Medical Technology Company**

**Beijing, China; Singapore**

**Digital Marketing Intern**

**May 2020 – December 2020**

- Organizing online sessions, conferences; negotiating with experts in Urology and Sports Medicine field for follow-up
- Translating and edit professional videos, documents
- Designing poster and posting advertisements

**LemonBox nutritional Company**

**Beijing, China**

**Digital Marketing Intern**

**March 2021 – July 2021**

- searching and negotiating with internet celebrity
- generating create idea and revising script for advertisement
- organizing the budget and weekly update for spending

**TEACHING EXPERIENCE**

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**Experimental Psychology and Clinical Psychology**

**Prof. William M. Trochim (Cornell University)**

**July 2021 – August 2021**

**Teaching Assistant**

- Holding 2 hours TA sessions and office hours outside class
- Organize student attendance and assist with proposal writing

**Social Psychology and Media Psychology**

**Prof. Edward Schiappa (Massachusetts Institute of Technology)**

**September 2021 – November 2021**

**Teaching Assistant**

- Holding weekly TA sessions and office hours outside class
- Organize student attendance and assist with proposal writing

**Musical therapy and Emotion management**

**Prof. Katrina Skewes McFerran (The University of Sydney)**

**October 2021 – December 2021**

**Teaching Assistant**

- Holding weekly TA sessions and office hours for large size class (around 600 students)
- Grading for homework essay and advising students for writing assignments

**Experimental Psychology and Experimental Design**

**Prof. William M. Trochim (Cornell University)**

**February 2022 – March 2022**

**Teaching Assistant**

- Holding 2 hours TA sessions and office hours outside class
- Organize student attendance and assist with proposal writing

**SKILLS**

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**Language Skills**

Mandarin (Native), English, Japanese

**Technical Skills**

Programming: MATLAB Psychtoolbox, Python (jupyter notebook), Rstudio, PsychoPy

Data Analysis: FSL, SPM, EEGLab, SPSS

Neuroimaging tools: EEG, fMRI

Others: Adobe Photoshop, Adobe illustrator, Adobe indesign, Microsoft Office, SR Research Eyelink Eyetracker