

Zhongjie Bao

MSc neuroscience candidate at Western University
BSc. Psychology, Minored in Mathematics
Born in 1997 in Chengdu, Sichuan, China
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EDUCATION

(Current, In progress) Western University, London, ON — Msc in Neuroscience

Supervised by Dr. Paul Frewen: <https://frewen.ca/meditations/>

SEP 2019 - AUG 2021

- **Current Master's thesis project:** Modulating self-referential processing with brain stimulation
 - Assessment of brain stimulation as a tool for potential clinical applications
 - Collecting and analysing EEG data for better understanding of the neural underpinnings of self-referential processing
- **Graduate coursework:** focused on data management and statistics
 - PSYC 9040A: Scientific Computing (MATLAB) - 98%
 - COMPSI 9637B: Intro to Data Management (Machine learning in Python) - 85%
 - PSYC 9041A: Intro to Statistics Using R - in progress
 - PSYC 9540: Research Design (Statistical analysis of psychological data) - 86%

Nipissing University, North Bay, ON — Bsc in Psychology (Minored in Mathematics)

SEP 2015 - APRIL 2019

- Overall GPA: 88.8/100 - Receiver of President's Scholarship (highest entrance award) for all 4 years of undergraduate education

PROJECTS & PUBLICATIONS

Projects in progress

- Bao Z., Howidi B, Burhan A., Frewen, P. (ready to submit for publication) A Systematic Review: **Self-Referential Processing (SRP)** effects of Non-Invasive Brain Stimulation
 - A review paper summarizing the existing non-invasive brain stimulation literature on SRP
 - Discussed the causal role of the frontal and parietal modules of the self-referential network in SRP
 - Discussed the strength and limitations of brain stimulation as a modulatory tool for SRP

RESEARCH SKILLS

- Strong statistical background
- Data management in R, Matlab, and Python
- fMRI data analysis and visualization
- EEG data collection experience
- Experience in processing 360 videos and research related to virtual reality

LANGUAGES

English - Full professional fluency

*Compared to many international students who have strength in reading and writing but weakness in speaking and listening, I am quite good at all aspects of the English language, especially conversations.

Chinese (Mandarin) - Native fluency

PERSONALITY

I am very open-minded and conscientious. I find myself very empathetic, and yet analytical.

I am deeply interested in the impacts of our mental

Published Chapter

- Campbell D.W., Bao Z. (2018) Frontal Cortex. In: Shackelford T., Weekes-Shackelford V. (eds) *Encyclopedia of Evolutionary Psychological Science*. Springer, Cham

DOI: https://doi.org/10.1007/978-3-319-16999-6_810-1

representations of the world and ourselves on psychological well-being.

I am tech-savvy, learning and exploring the potential of technology are my strengths.

Research projects presented in conferences:

Presentations:

- Z.Bao & D.W.Campbell (2019) "Neurofunctional impact of chronic cannabis use on emotion" at Canadian Society for Brain, Behaviour and Cognitive Science Annual Conference (CSBBCS June 2019)
- Z. Bao & D. W. Campbell (2018) "Neural mechanism of negative moral emotions: guilt and embarrassment – A literature review" at Nipissing Undergraduate Research Conference (UGRC 2018)

Posters:

- Z.Bao & D.W.Campbell (2019) "Neurofunctional impact of chronic cannabis use on emotion" at Nipissing UGRC 2019 - Received the 4th highest score of the conference
- Z. Bao & D. W. Campbell (2017) "A functional brain imaging review of self- and other-focused processing among people with Social Phobia." at Nipissing UGRC 2017

Directly involved in other students' projects:

- (*Published) Campbell, D. W., Stewart, S., Gray, C. E. P., Ryan, C. L., Fettes, P., McLandress, A. J., & Dell'Aquila, R. (2018). Chronic cannabis use and attentional bias: Extended attentional capture to cannabis cues. *Addictive Behaviors*, 81, 17–21.
- J. Donovan, A. McLandress, B. O'Hanlon, E. Gibson, Z. Bao, D. W. Campbell (2016) Long-term marijuana use and spatial memory performance: Does dope affect dimensional recall?"

Lab website: faculty.nipissingu.ca/darrenc

Supervisor: Dr. Darren W Campbell (darrenc@nipissingu.ca)

WORK EXPERIENCE

Mathnasium of North Bay, North Bay, ON — *Lead Instructor*

OCT 2016 - JUNE 2019

- Used the Mathnasium method to help more than 100 students
- Reported to students' parents on their study progress, including students' strength and weaknesses
- Received positive feedback from both students and parents
- Help center coordinators train new employees
- (On demand) Private tutor in first-year university Calculus

Center Director Contact: Jing Zhang & Haibin Zhu (northbay@mathnasium.ca)

Nipissing University, North Bay, ON — *Tutorial Leader for Calculus I & II*

SEP 2016 - APRIL 2018

- Weekly 2-hour presentation of example math questions for university-level courses Math 1036 & 1037. Covered topics from limits to integration
- Answer students' homework questions in class and respond to students' need for help after class
- *Overall course evaluation by students: 4.6/5 for 2016-2017; 4.8/5 for 2017-2018

Employer: Dr. Logan Hoehn (hoehnl@nipissingu.ca)

Vision Education, Chengdu, Sichuan, China — *English teacher & Teaching Assistant*

JUNE 2016 - AUG 2016

- Teaching: one-on-one individualized courses with Chinese students on English vocabulary and grammar
- TA: Providing feedback for Chinese students preparing for language assessments (IELTS, TOEFL, etc.) in speaking and writing

OTHER VOLUNTEER EXPERIENCE

Laurentian Learning Center, North Bay, ON — *Volunteer for Adult ESL class*

MAY 2017 - JUNE 2019

- Teaching English to other adult immigrants and international students
- Focuses on helping immigrants with communication skills in everyday life and English grammar.

Supervisor: Melanie McVeety (Melanie.McVeety@nearnorthbayschool.ca)

Nipissing University, North Bay, ON — *International Student Mentorship Program (as mentor)*

SEP 2017 - APRIL 2018

- Planning and managing events for international students
- Offer individualized help to new international students' personal and academic adjustment

Nipissing University, North Bay, ON — General Member of Nipissing University Student Alumni (NUSA)

SEP 2017 - APRIL 2018

- Sold tickets for sporting events at the university athletic center

Frontier College, North Bay, ON

OCT 2015 - APRIL 2016

- Help young children with basic math concepts and mental math