

Tongyao Zhang

Doctoral Student – Department of Psychological and Brain Sciences
Indiana University, 1101 E 10th St, Bloomington, IN, 47405
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Research Interests

Mathematical and scientific knowledge learning, patterning, reasoning, mathematics instruction

Education

Expected 2025 – 2026 Ph.D. in Psychological Sciences, concentration in Developmental Sciences
Indiana University, Bloomington, IN
Adviser: Dr. Emily Fyfe

2016.9 – 2020.6 B.S. in Psychology with concentrations on cognitive and developmental training
Beijing Normal University, Beijing, China
GPA: 3.65 (WES)

Manuscript and Conferences

Zhang, T. & Fyfe, E. R., High variability in learning materials benefits children's pattern practice. (Under review)

Zhang, T. & Fyfe, E. R., (2022, March). Variability in Pattern Practice. Poster presented at the Biennial Meeting of the Cognitive Development Society (CDS), Madison, WI

Flexner, A. (2020). *The Usefulness of Useless Knowledge*. (**T Zhang, Trans.**). Shanghai Education Press.

Research Experience

Research Assistant **Optimising Behaviour Using Individualized Closed-Loop Brain Stimulation**
2019.7 – 2019.9 Adviser: Dr. Roi Cohen Kadosh
University of Oxford

Project Director **Twelve-tone Temperament Music Preference and the Influence of Prior Musical Experience**
2018.5 – 2019.6 Adviser: Dr. Qingfen Hu
Beijing Normal University

Project Director **The Underlying Mechanism of Absolute and Relative Physical Magnitude Perception: Evidence in Auditory Processing of Pitch and Chord**
2018.5 – 2018.7 Adviser: Dr. Siyuan Hu
Beijing Normal University

Research Team Member 2018.5 – 2019.5	The Role of Empathy in Altruistic Conformity and Aggressive Conformity Advisor: Dr. Chao Liu Beijing Normal University
Research Team Member 2018.3 – 2018.7	Intergenerational Changes in Chinese People’s Subjective Interpretation of Collectivism and its Impact on Altruism Advisor: Dr. Fang Wang Beijing Normal University
Research Assistant 2017.6 – 2017.8	Cognitive and Neural Mechanism of the Effect of Intergenerational Upbringing on Children’s Emotion Development Advisor: Dr. Xiuyun Lin Beijing Normal University

Honors and Awards

2022.9 – 2023.8 (Expected)	Training Grant in Integrative Developmental Process (“Developmental Training Grant”) Director: Dr. Linda Smith
2019.11	Second-Class Outstanding Undergraduate Scholarship, Beijing Normal University
2019.6	Fung Scholarship, University of Oxford (funded by Victor and William Fung Foundation)
2018.11	Third-Class Outstanding Undergraduate Scholarship, Beijing Normal University
2015.7	First prize in Beijing Young Physicists’ Tournament

Teaching

2022.9 – 2022.12	Guest Lecturer, Indiana University <i>PSY-P315 Developmental Psychology</i>
2021.9 –	Graduate Teaching Assistant, Indiana University

Mentoring

2022.1 –	Anna Settle
2022.9 – 2023.1	Rutvi Shah
2022.1 – 2022.8	Wenwen Du