Xiaoyan Wu

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Postdoc at the Psychiatrische Universitätsklinik Zürich, University of Zürich, Zurich, Switzerland

Work Experience

University of Zürich, Psychiatrische Universitätsklinik Zürich

2024/12-Present

Postdoctoral researcher in Computational Psychiatry

Zurich, Switzerland

• Supervisor: Prof. Philipp Homan.

Education

Beijing Normal University, School of Psychology

2020/09-2024/10

PhD in Cognitive Neuroscience (Cum-GPA: 3.38/4.0)

Beijing, China

• Supervisor: Prof. Chao Liu, Co-Supervisor: Prof. Hang Zhang (Peking University)

University of Zurich, Zurich Center for Neuroeconomics

2021/12-2024/01

PhD in Neuroeconomics (Exchange)

Zurich, Switzerland

• Supervisor: Prof. Christian C. Ruff (This is a two-year exchange program as part of my PhD. I study the neurocomputational components of trust during the exchange)

Shenzhen University, Department of Psychology

2017/09-2020/07

MSc in Psychology (Cum-GPA: 3.28/4.0)

Shenzhen, China

• Supervisor: Prof. Yuejia Luo

Zhuhai College of Jilin University, Business School

2015/09-2017/07

BS in Economics and Business Administration (Cum-GPA: 3.26/4.0)

Zhuhai, China

Training

MRI User Training with Qualified Certificate

2022/06-2023/06

University Hospital Zurich

Zurich, Switzerland

The 2023 Neuroeconomics Summer School

2023/07

University of Pennsylvania

Philadelphia, PA, USA

Computational Psychiatry Course Zurich 2022

2022/09

University of Zurich

Zurich, Switzerland

Publications

Under-review:

1. **Wu, X.**, Fu, H., Aydogan, G., ...& Liu, C.(2024). The Self-Interest of Adolescents Overrules Cooperation in Social Dilemmas. *Currently under peer review at eLife*. DOI

Published:

- 2. Wu, X[#]., Ren[#], X., Liu, C., & Zhang, H.(2024). The motive cocktail in altruistic behaviors. *Nature Computational Science*. DOI
- 3. Wu, X., Zhu, R., & Liu, C.(2024). A Cognitive Computational Mechanism for Mutual Cooperation: The Roles of Positive Expectation and Social Reward. *Acta Psychologica Sinica* (Best Chinese Journal). DOI
- 4. Wang, H., **Wu**, **X**., ... & Qin, S. (2024). Acute stress during witnessing injustice shifts third-party interventions from punishing the perpetrator to helping the victim. **PLOS Biology** DOI

- 5. Jin, K., Wu, J., Zhang, S., **Wu, X**., Gu, R., Liu, Chao. (2024). Observing heroic behavior and its gender difference in immersive virtual environments. *Proceedings of the National Academy of Sciences*. DOI
- 6. Wu, X., Zhu, R., Gong, X., Luo, Y., & Liu, C.(2023). Social incentives foster cooperation through guilt aversion: an effect that diminishes with primary psychopathic traits. *PsyCh Journal*. DOI
- 7. Wu, X[#]., Feng, C[#]., He, Z., Gong, X., Luo, Y. J., & Luo, Y. (2019). Gender-specific effects of vasopressin on human social communication: An ERP study. *Hormones and behavior* DOI
- 8. Wu, X., Xu, P., Luo, Y. J., & Feng, C. (2018). Differential effects of intranasal vasopressin on the processing of adult and infant cues: an ERP study. *Frontiers in human neuroscience* DOI
- 9. Wu, X., Feng, C., Xu, J., He, Z., Luo, Y., & Luo, Y. (2019). The Effects of vasopressin on human social behaviors. *Advances in Psychological Science* (Top Chinese Journal), DOI

Selected Poster Presentations

- Wu, X., Ren X., Liu, C., & Zhang, H. The Neural Signature of "Motive Cocktail" in Altruistic Behavior 21st Annual Society for Neuroeconomics Meeting, Cascais, Portugal, 2024.
- Wu, X., Bürgi, N., Ruff, C. Cognitive Components of Trust. Society for Social Neuroscience annual meeting, Tsukuba, Ibaraki Prefecture, Japan, 2024.
- Wu, X., Ren X., Liu, C., & Zhang, H. The "motive cocktail" in third-party punishment and helping. 21st Annual Society for Neuroeconomics Meeting, Vancouver, British Columbia, Canada, 2023.
- Wu, X., Bürgi, N., Ruff, C. Cognitive Components of Trust. 21st Annual Society for Neuroeconomics Meeting, Vancouver, British Columbia, Canada, 2023.

Teaching

- Lecturer of Methods in Cognitive Neuroscience at University of Zurich

 A lecture aiming to provide a comprehensive introduction to functional Magnetic Resonance Imaging (fMRI) in cognitive neuroscience for high school students preparing for university.
- Teaching assistant of Social and Affective Neuroscience at **Beijing Normal University** 2020/09-2020/01

 Teaching assistant to prof. Chao Liu's Social and Affective Neuroscience course for graduate students.
- Invited lecture at National University of Singapore 2024/07

 Invited to teach Methods in Psychological Research and Neuroscience at NUS Business School for a summer school.

Advising and Mentorship

- Advisor of Bachelor's Thesis at **Beijing Normal University**Title: The computational mechanisms underlying the effect of favoritism on reciprocity decision-making (Outstanding undergraduate dissertation).
- Advisor of Bachelor's Thesis at **Beijing Normal University**Title: Dynamic learning in human-AI cooperative interaction: a cognitive computational approach (Outstanding undergraduate dissertation).

Research Grants

• Key Projects of Shenzhen University Innovation Development Grant PI, $\tilde{s}2300$

2019-2020

- Beijing Normal University Doctoral Interdisciplinary Grant co-PI, $\hat{\$}1500$

2019-2020

Invited Talks

• The Socioeconomic Motives for Third-party Punishment and Help Invited by Prof. Kazuhisa Takemura at Department of Psychology, Waseda University	2024/03
• The "Motive Cocktail" in Altruistic Behaviors Invited by Prof. Yohsuke Ohtsubo at Graduate School of Humanities and Sociology, University of Tokyo	2024/03
• Neurocomputational Components of Trust Invited by prof. Brian Knutson at <i>Department of Psychology, Stanford University</i>	2024/01
• The "Motive Cocktail" in Altruistic Behaviors Invited by prof. Philippe Tobler at <i>Department of Economics, University of Zurich</i>	2022/12
• The Motivations Underlies Human Third-party Punishment and Help Invited by prof. Hang Zhang at Department of Psychology, Peking University	2022/08
Selected Awards	
• Best PhD Dissertation Award (Top 1%) Beijing Normal University, Beijing, China.	2025
• S4SN Travailing Award Travailing Award of Society for Social Neuroscience annual meeting, Tsukuba, Japan.	2024
• Outstanding Graduates (Top 1%) Outstanding graduate of Shenzhen University.	2020
• The First Prize Scholarship (Top 10%) An academic award that recognizes outstanding achievements during my master's studies.	2019
• National scholarship (Top 3%) The highest academic award given by the Chinese government to exceptional undergraduate and per	2018 ostgraduate

Skills

students.

- Programming: MATLAB, Python, and R. View code samples.
- EEG, MEG, fMRI, and eye-tracking.
- Excellent communication skills in spoken and written English.
- Native speaker of Mandarin, Cantonese, and Hokkien; A1 level in German.