Xiaoyan "Cheyenne" Wu

In coming postdoc position at the University of Zurich's Department of Adult Psychiatry and Psychotherapy, Zurich, Switzerland

Work Experience

University of Zurich, Department of Adult Psychiatry and Psychotherapy

Starting in 2024/12

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 Selfishness of Adolescents Overrules Cooperation in Social Dilemmas. *Under review*.

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 $PI,\ \tilde{\$2300}$	2019-2020
- Beijing Normal University Doctoral Interdisciplinary Grant co-PI, $\mathring{\$}1500$	2019-2020

Invited Talks

•	The Socioeconomic Motives for Third-party Punishment and Help Invited by Prof. Kazuhisa Takemura at <i>Department of Psychology, Waseda University</i>	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 Department of Psychology, Stanford University	2024/01
•	The "Motive Cocktail" in Altruistic Behaviors Invited by prof. Philippe Tobler at Department of Economics, University of Zurich	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

• S4SN Travailing Award

7	Travailing Award of Society for Social Neuroscience annual meeting, Tsukuba, Japan.	
	Outstanding Graduates (1%) Outstanding graduate of Shenzhen University.	2020

2024

• The First Prize Scholarship (Top 10%)

An academic award that recognizes outstanding achievements during my master's studies.

• National scholarship (Top 3%)

The highest academic award given by the Chinese government to exceptional undergraduate and postgraduate students.

2018

Skills

- Programing: MATLAB, Python and R. View code samples.
- EEG/MEG/fMRI and Eye-tracking.
- Excellent communication skills in spoken and written English.
- Fluent in Mandarin, Cantonese and Hokkien.

References

• Chao Liu

Professor in IDG/McGovern Institute for Brain Research, Beijing Normal University liuchao@bnu.edu.cn

• Christian C. Ruff

Professor in Department of Economics, University of Zurich christian.ruff@econ.uzh.ch

• Ernst Fehr

Professor in Department of Economics, University of Zurich ernst.fehr@econ.uzh.ch

• Hang Zhang

Professor in \overline{IDG} McGovern Institute for Brain Research, Peking University hang.zhang@pku.edu.cn