Xiaoyan "Cheyenne" Wu

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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 *Postdoctoral researcher in Computational Psychiatry*

• 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 P neurocomputational components of trust during the exchange)	hD. I study the
Shenzhen University, Department of Psychology	$2017/09 extrm{-}2020/07$
MSc in Psychology (Cum-GPA: 3.28/4.0)	Shenzhen, China
• Supervisor: Prof. Yuejia Luo	
Zhuhai College of Jilin University, Business School	$2015/09 extrm{-}2017/07$
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 University of Pennsylvania

Computational Psychiatry Course Zurich 2022 University of Zurich

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:

- 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

Starting in 2024/12 Zurich, Switzerland

2023/07 Philadelphia, PA, USA

> 2022/09 Zurich, Switzerland

- 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 2023/08/10 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 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** 2021/06-2022/07 Title: The computational mechanisms underlying the effect of favoritism on reciprocity decision-making (Outstanding undergraduate dissertation).
- 2023/06-2024/07 • Advisor of Bachelor's Thesis at **Beijing Normal University** Title: Dynamic learning in human-AI cooperative interaction: a cognitive computational approach (Outstanding undergraduate dissertation).

2024/07

Research Grants

• Key Projects of Shenzhen University Innovation Development Grant $PI, \ \hat{\$}2300$	2019-2020
• Beijing Normal University Doctoral Interdisciplinary Grant co -PI, $\tilde{\$}1500$	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 <i>Department of Economics</i> , University of Zurich	2022/12
• The Motivations Underlies Human Third-party Punishment and Help Invited by prof. Hang Zhang at <i>Department of Psychology, Peking University</i>	2022/08
Selected Awards	
• S4SN Travailing Award Travailing Award of Society for Social Neuroscience annual meeting, Tsukuba, Japan.	2024

- Outstanding Graduates (1%) Outstanding graduate of Shenzhen University.
- 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

2020

2019

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/McGovernInstitute 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 *IDG McGovern Institute for Brain Research, Peking University* hang.zhang@pku.edu.cn