

Cong Wang

Ph.D. candidate

Peking-Tsinghua Center for Life Sciences,

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Education

- Expected
2022 **Ph.D. in Cognitive Neuroscience**
*Academic for Advanced Interdisciplinary Studies; IDG/McGoven
Institute for Brain Research, Peking University, Beijing, China*
Supervisor: Dr. Lusha Zhu
- 2017 **B.S. in Psychology**
Sun Yat-sen University, Guangzhou, China

Research Interests

- Fields decision neuroscience, developmental cognitive neuroscience,
computational pragmatics, computational psychiatry
- Methods fMRI, computational modeling, multivariate decoding, neuroanatomy
- Topics social decision-making, neurodevelopment of social cognition,
communication, coordination, adolescence, autism

Publications

- 2021 Mi, Q., **Wang, C.**, Camerer, C. F., & Zhu, L. (2021). Reading between
the lines: Listener's vmPFC simulates speaker cooperative choices in
communication games. *Science Advances* 7, eabe6276.
- 2018 Ai, S.#, Yin, Y.#, Chen, Y., **Wang, C.**, Sun, Y., Tang, X., ... & Shi, J.
(2018). Promoting subjective preferences in simple economic choices
during nap. *eLife*, 7, e40583.
- 2018 Luo, S., Zhong, S., Zhu, Y., **Wang, C.**, Yang, J., Gu, L., ... & Wu, X.
(2018). Brain structural and functional substrates of personal distress in
empathy. *Frontiers in behavioral neuroscience*, 12.

2018 Pan, J., Zhan, L., Hu, C., Yang, J., **Wang, C.**, Gu, L., ... & Chen, Q. (2018). Emotion Regulation and Complex Brain Networks: Association Between Expressive Suppression and Efficiency in the Fronto-Parietal Network and Default-Mode Network. *Frontiers in human neuroscience*, 12, 70.

Work In Progress

Manuscript in preparation Separable neurocognitive changes underlie the development of communicative reasoning in adolescence
Wang, C., Cong, M., Mi, Q., Yu, G., Su, Y., & Zhu, L.

Manuscript in preparation Frontoparietal network contributes to the development of online mentalization during communication
Wang, C., Cong, M., Yu, G., Wang, Y., Su, Y., & Zhu, L.

Data analysis in progress Structural and functional brain changes underlie the maturation of online mentalization
Wang, C., Jiang, C., Zuo, X., Su, Y., & Zhu, L.

Data analysis in progress Neural representations of information in the speaker brain
Wang, C., & Zhu, L.

Data analysis in progress Neural alignment facilitates human coordination
Wang, C., & Zhu, L.

Data collection in progress Investigate the influence of autistic traits on the development of communicative reasoning in adolescence
Wang, C., Wang, Y., Su, Y., & Zhu, L.

Conferences

2021 Separable neurocognitive changes underlie the development of communicative reasoning in adolescence.
Wang, C., Cong, M., Mi, Q., Yu, G., Su, Y., & Zhu, L
Oral Presentation, the 2021 vSNE Conference.

- 2021 Separable neurocognitive changes underlie the development of communicative ability in adolescence.
Wang, C., Cong, M., Mi, Q., Yu, G., Su, Y., & Zhu, L.
Poster & Flash Talk, Flux 2021 Congress.
- 2021 The neurocognitive development of online mentalization ability.
Wang, C., Cong, M., Su, Y., & Zhu, L.
Oral Presentation, 32nd International Congress of Psychology.
- 2021 Neurocognitive development of interpreting communicative intent in youth.
Wang, C., Cong, M., Mi, Q., Yu, G., Su, Y., & Zhu, L.
Poster, SRCD 2021 Biennial Meeting.
- 2020 The neurocognitive development of pragmatic interpretation in youth.
Wang, C., Cong, M., Mi, Q., Yu, G., Su, Y., & Zhu, L.
Poster, the Cognitive Neuroscience Society Virtual Meeting.
- 2019 Decomposing the neurocognitive development of social pragmatics.
Wang, C., Cong, M., Mi, Q., Yu, G., Su, Y., & Zhu, L.
Invited Talk, the 4th International Conference of Human Brain Development, Hangzhou, China.
- 2018 Comprehension as Bayesian decision-making: neural computations of inferring what is meant from what is said in language games.
Mi, Q., **Wang, C.**, Fu, X., Gao, J., & Zhu, L.
Spotlight Poster, the 16th Annual Society for Neuroeconomics Meeting, Philadelphia, USA.

Teaching Experience

Neuroeconomics, undergraduate course, teaching assistant, Spring 2019.

Research Supervision

Undergraduate Research Supervision (2020-now)

Topic: Sequential sampling models explain communicative referential behaviors

Han Wang, Yuanpei College, Peking University.

Undergraduate Thesis Supervision (2020-2021)

Topic: Developmental trajectory of communicative signal interpretation: a longitudinal study

Guihua Yu, School of Psychological and Cognitive Sciences, Peking University.

Undergraduate Thesis Supervision (2019-2020)

Topic: Developmental differences in making trade-offs between fairness and efficiency

Tianhe Wang, School of Life Sciences, Peking University.

Fellowships & Awards

2019 Award for Scientific Research, Peking University

2017 Outstanding Graduate, Sun Yat-sen University

2014 & 2016 National Scholarship, Sun Yat-sen University

Selected Media

2019 China National Radio (CNR). "Chinese scholars first testify that people can be 'brainwashed' during sleep."

Society Memberships

Society for Neuroscience; Society for Neuroeconomics; Society for Research in Child Development; Association for Psychological Science; Flux Society

Skills

Data analysis & Programming: Matlab, R, Python, FreeSurfer

Language: Chinese (native), English