

Kai Xue

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EDUCATION

Ph.D. in Psychology Georgia Institute of Technology, Atlanta	08/2022–present
B.S. In Psychobiology University of California, Los Angeles (UCLA), Los Angeles	02/2016–12/2019

RESEARCH EXPERIENCE

Rahnev Lab Georgia Institute of Technology Lab manager -> Ph.D. Student PI: Dobromir Rahnev	07/2020-Present
The Computational Vision and Learning Lab University of California, Los Angeles (UCLA) Research Assistant PI: Hongjing Lu	02/2019-06/2020
Computational Social Neuroscience Lab University of California, Los Angeles (UCLA) Research Assistant PI: Carolyn Parkinson	05/2019-06/2020
Cognition and Emotion Laboratory The University of Hong Kong (HKU) Research Assistant PI: Barbara Lo	09/2017 - 07/2018

PUBLICATIONS

- Xue, K.,** Shekhar, M., & Rahnev, D. (2021). Examining the robustness of the relationship between metacognitive efficiency and metacognitive bias. *Consciousness and Cognition*.
- Xue, K.,** Zheng, Y., Rafiei, F., & Rahnev, D. (2023). The timing of confidence computation in human prefrontal cortex. *Cortex*.
- Nakuci, J., Yeon, J., **Xue, K.,** Kim, JH., Kim, SP., & Rahnev, D. (2023). Quantifying the contribution of subject and group factors in brain activation. *Cerebral Cortex*.
- Xue, K.,** Shekhar, M., & Rahnev, D. (submitted). Challenging the Bayesian confidence hypothesis.
- Xue, K.,** Zheng, Y., Papalexandrou, C., Hoogervorst, K., Allen, M., & Rahnev, D. (submitted). No gender difference in confidence or metacognitive ability in perceptual decision making.
- Gao, Y., **Xue, K.,** Odegaard, B., & Rahnev, D. (submitted). Common computations between automatic cue combination and metacognitive confidence judgments.
- Hoogervorst, K., Banellie, L., Fardo, F., **Xue, K.,** Rahnev, D., & Allen, M. (submitted). Gender Differences in Metacognition: Global and Local Contrasts in Bias and Efficiency.
- Xue, K.,** Shekhar, M., & Rahnev, D. (in prep). A novel behavioral paradigm reveals the nature of confidence computation in perceptual decision making.
- Xue, K.** & Rahnev, D. (in prep). Stimulus clarity drives confidence much more than accuracy.
- Rojas, E., **Xue, K.,** & Li, M. (in prep): Trust is Contagious: Social Influences in Human-Human-AI Team.
- Zheng, Y., **Xue, K.,** Shekhar, M., & Rahnev, D. (in prep). Similar computational noise for perceptual decision making with confidence, expectation, and reward.
- Zheng, Y., Shekhar, M., **Xue, K.,** & Rahnev, D. (in prep). Dissociating sensory, decisional, and metacognitive noise in perceptual decision making.

CONFERENCE

1. Rojas, E., **Xue, K.**, & Li, M. Trust is Contagious: Social Influences in Human-Human-AI Team. (HFES 2024 submitted)
2. **Xue, K.**, Shekhar, M., & Rahnev, D. A novel behavioral paradigm reveals the nature of confidence computation in perceptual decision making (VSS accepted), May 2024
3. **Xue, K.**, Shekhar, M., & Rahnev, D. Challenging the Bayesian confidence hypothesis (VSS), May 2023
4. **Xue, K.**, Shekhar, M., & Rahnev, D. Examining the robustness of the relationship between metacognitive efficiency and metacognitive bias (VSS), May 2021

SKILLS

- Software: SPSS, Artech, Maya, JASP, Audacity
- Programming Languages: MATLAB, Python, HTML, R

REVIEWING EXPERIENCE

- Psychological Research