

April 2026

Pin Yang

Ph.D. Candidate, Department of Psychological and Brain Sciences

Indiana University Bloomington

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EDUCATION

Ph.D. in Psychological and Brain Sciences & Cognitive Science

Indiana University Bloomington, Bloomington, IN

Defense date: May 22, 2026

- Advisor: Dr. Geoffrey Bingham
- Dissertation: **From Seeing in Depth to Acting in Depth: Stereomotion Channels Reveal Their Functional Roles and Shape Visuomotor Reaching Dynamics**

B.S. in Psychology & Cognitive Science

East China Normal University, Shanghai, China.

Graduation Year: 2020

RESEARCH INTERESTS

- 3D motion perception (stereomotion), depth cue integration
- Visually guided action and visuomotor control
- Continuous psychophysics, computational modeling, and ecological vision theory

RESEARCH EXPERIENCE

Research Assistant

Perception and Action Lab, Indiana University Bloomington

2021 – Present

- Designed and conducted experiments.
- Developed MATLAB, Python and Unity-based simulations for 3D stimuli.
- Analyzed data using Bayesian models, Kalman filters, τ -models, and cue reliability frameworks.

TEACHING EXPERIENCE

April 2026

Teaching Assistant

2021 – Present

- Delivered lectures and facilitated discussion sessions for undergraduate courses
 - Provided instructional support through grading, exam preparation, and assignment feedback.
 - Held weekly office hours to offer individualized academic support
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CONFERENCE PRESENTATIONS

- Yang, P., & Bingham, G. (2026). From Perception to Action: Stereomotion Channels Predict Reaching Dynamics. Vision Sciences Society Annual Meeting
 - Yang, P., & Bingham, G. (2025). Exploring Individual Variability in Stereomotion-Based Perception of Relative Distance. Psychonomics Annual Meeting
 - Yang, P., & Bingham, G. (2024). Investigating What Optical Texture Property is Used for Relative Distance Perception. Vision Sciences Society Annual Meeting
 - Yang, P. et al. (2019). How does Stereoblindness Modulate Reaching-to-Grasp. Vision Sciences Society Annual Meeting.
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PUBLICATIONS & PREPRINTS

- **Yang, P.**, Saunders, J., & Chen, Z. (under review). Cue reliabilities shape biases of 3D slant perception: evidence for a Bayesian account. Preprint: https://osf.io/preprints/osf/zncx6_v1
- You, Y. *, **Yang, P.** *, & Chen, Z. (2026). Predictability of trajectory modulates manual tracking: from real-time feedback to internal-model-based control. *Cognitive Psychology*. 164, 101798. (*: equal contribution).
- **Yang, P.**, Bingham, G. P., & Chen, Z. (2025). The long-term absence of static stereopsis cultivates adaptive planning of reaching-to-grasp. *Investigative Ophthalmology & Visual Science*, 66(15):31.
- Bingham, G. P., Herth, R. A., **Yang, P.**, Chen, Z., & Wang, X. M. (2022). Investigation of optical texture properties as relative distance information for monocular guidance of reaching. *Vision Research*, 196, 108029.
- **Yang, P.**, Saunders, J. A., & Chen, Z. (2022). The experience of stereoblindness does not improve use of texture for slant perception. *Journal of Vision*, 22(5), 3-3.
- Chen, J., **Yang, P.**, & Chen, Z. (2020). The effect of the Müller–Lyer configuration on saccadic eye movements is not fully due to illusory perception. *Journal of Neurophysiology*, 124(3), 856-867