DAWEI BAI

dawei.bai[at]hotmail.com www.daweibai.com Updated 10/2025

ACADEMIC POSITIONS

Postdoctoral Associate , Yale University, New Haven, CT, USA. Sponsors: Brian Scholl and Samuel McDougle	2023 – present
EDUCATION	
Ph.D , École Normale Supérieure, Institut Jean Nicod, Paris, France. Supervisor: Brent Strickland	2019 – 2023
M.Sc., Cognitive Science ("Cogmaster"), École Normale Supérieure, École des Hautes Etudes en Sciences Sociales and Paris Descartes University, Paris, France.	2017 – 2019
M.A., Linguistics, University of Lille, Lille, France.	2016 – 2017
B.S. , Psychology , University of Lille and University of Poitiers, Lille, France.	2014 – 2017
B.A., French Literature , University of Poitiers, Poitiers, France.	2013 – 2016
Engineering study, University of Technology of Compiègne, Compiègne, France.	2011 – 2013
PUBLICATIONS	

T OBEIGITION.

- **Bai, D.**, Hafri, A., Izard, V., Firestone, C., & Strickland, B. (in press). "Core perception": Re-imagining precocious reasoning as sophisticated perceiving [target article]. *Behavioral and Brain Sciences*.
- **Bai, D.**, & Strickland, B. (2023). "The "Double Ring Illusion": The physical constraint of solidity shapes visual processing. *Journal of Experimental Psychology: General*. Advance online publication. https://doi.org/10.1037/xge0001839
- **Bai, D.**, & Strickland, B. (2023). The Pulfrich solidity illusion: A surprising demonstration of the visual system's tolerance of solidity violations. *Psychonomic Bulletin & Review*. https://doi.org/10.3758/s13423-023-02271-9

PUBLICATIONS UNDER REVIEW

Bai, D., & Scholl, B. J. (under review). The tiger moving through the tall grass: Spontaneous perception and tracking of featureless objects.

WORKING PAPERS

- **Bai, D.**, Weisman, K., Schille-Hudson, E., Ihm, E., Taves, A., Luhrmann, T. M., & Scholl, B. J. (in preparation). Chasing the supernatural: The perception of animacy from motion is related to spiritual experiences.
- **Bai, D.**, & Scholl, B. J., & Strickland, B. (in preparation). Isolating event categories in space and time: Evidence of dynamic "on the fly" representations in perception
- Sun, Z., **Bai, D.**, Scholl, B. J., & McDougle, S. (in preparation). Visuomotor adaptation via featureless objects.

INVITED TALKS

- 2025 "Core perception": Re-imagining precocious reasoning as sophisticated perceiving. Chaz Firestone lab, Johns Hopkins University.
- The tiger moving through the tall grass: Spontaneous perception and tracking of featureless objects. Martin Rolfs lab, Humboldt-Universität zu Berlin.
- 2023 Intuitive physics in visual perception. Hans Op de Beeck lab, KU Leuven.
- From object perception to object cognition: Philosophical and empirical perspectives. *Memory and Mental Files* workshop, Grenoble, France.
- 2021 The Solidity Principle in Visual Perception. *Language, Thought, and Perception* Workshop, Nantes, France.

CONFERENCE PRESENTATIONS

- **Bai, D.**, Weisman, K., Schille-Hudson, E., Ihm, E., Taves, A., Luhrmann, T. M., & Scholl, B. (2025). Chasing the supernatural: The perception of animacy from motion is related to spiritual experiences. Poster presented at the *Vision Sciences Society Annual Meeting*, St. Pete Beach, FL.
- **Bai, D.**, & Scholl, B., (2024). Object tracking without objects: Perceiving persistence defined by pure change. Poster presented at the *European Conference on Visual Perception*, Aberdeen, Scotland.
- **Bai, D.**, & Scholl, B., (2024). Do visual objects lose their individuality due to the perception of collective goals?: Evidence from numerical underestimation in the Wolfpack effect. Poster presented at the *Vision Sciences Society Annual Meeting*, St. Pete Beach, FL.

- **Bai, D.**, & Strickland, B. (2023). Object solidity disambiguates ambiguous motion. Talk given at the *Vision Sciences Society Annual Meeting*, St. Pete Beach, FL.
- **Bai, D.**, & Strickland, B. (2022). The double ring illusion: Object solidity is used to disambiguate ambiguous motion. Talk and demo night presentation given at the *European Conference on Visual Perception*, Nijmegen, Netherlands.
- **Bai, D.**, & Strickland, B. (2022). The double ring illusion: Object solidity is used to disambiguate ambiguous motion. Poster presented and demo night presentation at the *Vision Sciences Society Annual Meeting*, St. Pete Beach, FL.
- **Bai, D.**, Falck, A., & Strickland, B. (2021). The adult visual system resists learning continuity violations. Poster presented at the *Virtual Vision Science Society Meeting*. Online.
- **Bai, D.**, O'Madagain, C., Peperkamp, S., & Strickland, B. (2019). Core Cognition and Learnability: A Possible Explanation for Cross-linguistic Similarities. Talk given at the *21st conference of the European Society for Cognitive Psychology*, Tenerife, Spain.

AWARDS

Third place in the "Best Illusion of the Year Contest" in 2021 by the Neural Correlate Society, with the "Double Ring Illusion". View the illusion at https://youtu.be/bVbPmFpspXc.