

Haoran (Matt) Wan

CURRICULUM VITAE

Assistant Professor of Behavioral Science

Duke Kunshan University

Division of Social Sciences

Kunshan, Jiangsu, China

haoran.wan@dukekunshan.edu.cn

HaoranWan.com

ORCID [0000-0002-3434-3146](https://orcid.org/0000-0002-3434-3146)

[Google Scholar](#) · [GitHub](#) · [OSF](#)

Positions and Appointments

2026–Present

Duke Kunshan University

Assistant Professor of Behavioral Science, Division of Social Sciences

Education

2026

Washington University in St. Louis

Ph.D., Psychological & Brain Sciences, May 2026

Dissertation: “Age, income, and the discounting of delayed and probabilistic rewards: The roles of financial resources and attribute salience.”

Co-advisors: Leonard Green and Joel Myerson

2023

Washington University in St. Louis

M.A., Psychological & Brain Sciences

Thesis: “Discounting of delayed and probabilistic outcomes across the adult lifespan.”

Graduate Certificate, Quantitative Data Analysis

2021

Reed College

B.A., Economics and Psychology

Awards and Honors

2023, 2025

Sallie P. Asche Travel Award, Center for Vital Longevity.

2022

Tony Nevin Student Award, Society for the Quantitative Analyses of Behavior.

2021

Gerald M. Meier Award for Distinction in Economics, Reed College.

Grants and Fellowships

2026

Faculty Start-up Fund, Duke Kunshan University. Principal Investigator.

2021–2026 | **University Fellowship**, Washington University in St. Louis. Doctoral funding fellowship.

Peer-Reviewed Publications

Name shown in bold. Links provide the published article, analysis code, and open materials/data when available.

In Press

Myerson, J., Green, L., Vanderveldt, A., & **Wan, H.** (in press). Delay–probability asymmetry in discounting: An anomaly in multiattribute choice. *Journal of the Experimental Analysis of Behavior*.

2026

Wan, H., Myerson, J., Green, L., Strube, M. J., & Hale, S. (2026). Age, income, and the discounting of delayed and probabilistic rewards. *Frontiers in Psychology*, 17, 1765142. [PAPER](#)

Wan, H., Tan, L., & Hackenberg, T. D. (2026). Behavioral economic analysis of pigeons' token accumulation and reinforcer demand in a laboratory-based token economy. *Journal of the Experimental Analysis of Behavior*, 125(2), e70095. [PAPER](#)

2025

Wan, H., Green, L., & Myerson, J. (2025). Brief assessments of delay discounting: Two-amount monetary choice and delayed losses questionnaires. *The Psychological Record*, 75, 591–597. [PAPER](#) [CODE](#) [DATA](#)

Wan, H., Myerson, J., Green, L., Strube, M. J., & Hale, S. (2025). Age, income, and the discounting of delayed monetary losses. *The Journals of Gerontology: Series B*, 80(11), gbaf162. [PAPER](#) [CODE](#) [DATA](#)

Oliveira, L., Green, L., Myerson, J., & **Wan, H.** (2025). Discounting of probabilistic food reinforcement by pigeons. *Journal of the Experimental Analysis of Behavior*, 124(1), e70042. [PAPER](#) [CODE](#) [DATA](#)

2024

Wan, H., Green, L., & Myerson, J. (2024). Delayed monetary losses: Do different procedures and discounting measures assess the same construct? *Behavioural Processes*, 222, 105101. [PAPER](#) [CODE](#) [DATA](#)

Wan, H., Myerson, J., Green, L., Strube, M. J., & Hale, S. (2024). Age-related differences in delay discounting: Income matters. *Psychology and Aging*, 39(6), 632–643. [PAPER](#) [CODE](#) [DATA](#)

2023

Wan, H., Myerson, J., & Green, L. (2023). Individual differences in degree of discounting: Do different procedures and measures assess the same construct? *Behavioural Processes*, 208, 104864. [PAPER CODE](#)

Schulingkamp, R., **Wan, H.**, & Hackenberg, T. D. (2023). Social familiarity and reinforcement value: A behavioral-economic analysis of demand for social interaction with cagemate and non-cagemate female rats. *Frontiers in Psychology*, 14, 1158365. [PAPER CODE](#)

2022

Kirkman, C., **Wan, H.**, & Hackenberg, T. D. (2022). A behavioral-economic analysis of demand and preference for social and food reinforcement in rats. *Learning and Motivation*, 77, 101780. [PAPER CODE](#)

2021

Wan, H., Kirkman, C. F., Jensen, G., & Hackenberg, T. D. (2021). Failure to find altruistic food sharing in rats. *Frontiers in Psychology*, 12, 696025. [PAPER CODE](#)

Manuscripts in Preparation

Wan, H. Age, income, and the discounting of rewards that are both delayed and probabilistic: The effects of financial and cognitive resources. *Manuscript in preparation.*

Wan, H., Myerson, J., & Green, L. A parsimonious simplification of Killeen's general theory of discounting. *Manuscript in preparation.*

Wan, H., Myerson, J., & Green, L. A multiplicative relation: On the independence of delay and probability discounting. *Manuscript in preparation.*

Conference Presentations

12 presentations

Oral Presentations

2023 | **Wan, H.** (April). The effects of age and income on the discounting of delayed rewards. *Washington University in St. Louis*, St. Louis, MO [Talk]

2022 | **Wan, H.**, Myerson, J., & Green, L. (May). Comparison of the adjusting-amount procedure and the monetary choice questionnaire for measuring delay discounting. *44th Annual Meeting of the Society for the Quantitative Analyses of Behavior*, Boston, MA. [Talk]

- 2021 | **Wan, H.** (December). Comparison of the monetary choice questionnaire and the adjusting-amount procedure for measuring delay discounting, *Washington University in St. Louis*, St. Louis, MO [Talk]
- 2019 | Hackenberg, T. D., Kirkman, C. F., **Wan, H.**, & Franceschini, C. (September). Behavioral economics of food and social reinforcement. *10th International Meeting of the Association for Behavior Analysis International*, Stockholm, Sweden. [Paper]

Poster Presentations

- 2025 | **Wan, H.**, Green, L., & Myerson, J. (May). Brief assessments of delay discounting: Two-amount monetary choice and delayed losses questionnaires. *51st Annual Convention of the Association for Behavior Analysis International*, Washington, DC.
- 2025 | **Wan, H.**, Green, L., Myerson, J., Strube, M., Hale, S., & Chen, D. (February). Age, income, and the discounting of delayed monetary losses. *8th Dallas Aging and Cognition Conference*, Dallas, TX.
- 2024 | **Wan, H.**, Green, L., & Myerson, J. (May). Discounting delayed losses: Do different procedures and measures assess the same construct? *50th Annual Convention of the Association for Behavior Analysis International*, Philadelphia, PA.
- 2024 | **Wan, H.**, Myerson, J., Green, L., & Strube, M. (May). Discounting of rewards that are both delayed and probabilistic: A comparison of models. *46th Annual Meeting of the Society for the Quantitative Analyses of Behavior*, Philadelphia, PA.
- 2023 | **Wan, H.**, Green, L., & Myerson, J. (May). Changes in discounting of gains and losses across adulthood. *49th Annual Convention of the Association for Behavior Analysis International*, Denver, CO.
- 2023 | **Wan, H.**, Schulingkamp, R., & Hackenberg, T. (May). Social familiarity and reinforcement value: A behavioral-economic analysis of demand for social interaction in rats. *45th Annual Meeting of the Society for the Quantitative Analyses of Behavior*, Denver, CO.
- 2023 | **Wan, H.**, Green, L., Myerson, J., Strube, M., & Hale, S. (February). The effects of age and income on discounting of delayed rewards. *7th Dallas Aging and Cognition Conference*, Dallas, TX.

- 2022 | Cao, A., Tan, L., **Wan, H.**, & Hackenberg, T. D. (May). Own- and cross-price demand elasticity with specific and generalized conditioned reinforcers in a token economy with pigeons. *44th Annual Meeting of the Society for the Quantitative Analyses of Behavior*, Boston, MA.
- 2021 | **Wan, H.**, Tan, L., & Hackenberg, T. D. (May). Economic analysis of pigeons' token production, exchange, and accumulation in a laboratory-based token economy. *43rd Annual Meeting of the Society for the Quantitative Analyses of Behavior* (virtual).
- 2019 | **Wan, H.**, Kirkman, C. F., Franceschini, C., & Hackenberg, T. D. (May). Failure to find altruistic behavior in rats. *45th Annual Convention of the Association for Behavior Analysis International*, Chicago, IL.

Teaching Experience

- 2025 | **Graduate Teaching Assistant**, Washington University in St. Louis
PSYCH 5068: Hierarchical Linear Models (M. J. Strube)
- 2024 | **Lecturer**, Washington University in St. Louis
PSYCH 102: First-Year Opportunity – Contemporary Issues in Psychology
- 2022–2024 | **Assistant to Instructor**, Washington University in St. Louis
PSYCH 3890: Advanced Psychological Statistics (S. Cooper & J. Jackson)
PSYCH 5068: Hierarchical Linear Models (M. J. Strube)
PSYCH 361: Psychology of Learning (L. Green)
- 2020–2021 | **Teaching Assistant**, Reed College
ECON 201: Introduction to Economic Analysis (D. Hare)
PSYCH 203/373: Learning & Comparative Psychology / Learning (T. Hackenberg)

Courses Prepared to Teach

Judgment and Decision-Making · Behavioral Economics · Statistics and Quantitative Methods · Research Methods · Learning and Behavior · Cognition and Aging · Introduction to Psychology

Research Mentoring

5 students

- 2025 | Mars, W. “Discounting of Probabilistic Losses Across the Adult Lifespan.”
Research project, Washington University in St. Louis.
- 2025 | Chen, D. “Age, Income, and the Discounting of Delayed Monetary Losses.”
Research project, Washington University in St. Louis.

- 2024 | Salazar, S. “From Simple to Complex: The Predictive Validity of Reward Discounting in Financial and Health Domains.” Research project, Washington University in St. Louis.
- 2023 | Rosenthal, D. “Do You (Scarcity) Mind(set)?: A Subjective Examination of Scarcity Theory.” Senior honors thesis, Washington University in St. Louis.
- 2022 | Sheldon, M. “The Relation Between Probability and Delay Discounting: What Is the Immediate Probabilistic Value of a Delayed Reward?” Honors thesis, Washington University in St. Louis.

Academic and Professional Service

Ad Hoc Reviewer

Journal of the Experimental Analysis of Behavior

Behavioural Processes

Professional Service

- 2024 | Judge, 29th Graduate Student Research Symposium, Washington University in St. Louis.
- 2023 | Volunteer, Society for the Quantitative Analyses of Behavior.
- 2022–2023 | Chair, Graduate Student Brown Bag Series, Department of Psychological & Brain Sciences, Washington University in St. Louis.

Professional Experience

- 2025 | **Data Scientist & Software Engineer**, Swipesum, St. Louis, MO.
- 2024 | **Quantitative Medicine Analyst**, Critical Path Institute, Tucson, AZ.
- 2019 | **Legal & Fixed-Income Analyst**, Shenzhen Stock Exchange, Shenzhen, China.

Professional Development

- 2024–2025 | Issues in Aging Seminar Series, Friedman Center for Aging, Washington University in St. Louis.
- 2024 | Computational Modeling Workshop, Decision Neuroscience & Aging Research Network.
- 2024 | Joint FDA/FNIH Workshop on Digital Measures, Foundation for the National Institutes of Health.

Methodological and Computational Skills

Statistical computing in R and Stan; Bayesian, mixed-effects, and hierarchical modeling; mathematical and computational modeling of choice and discounting; experimental design and psychometrics; reproducible research workflows using Git/GitHub, OSF, R Markdown, and Quarto.

Professional Affiliations

Association for Psychological Science · Association for Behavior Analysis International · Society for the Quantitative Analyses of Behavior · American Psychological Association, Division 25 (Behavior Analysis)