Yiyang Chen
Curriculum Vitae

Contact information
Email: ychen@nova.edu

EDUCATION

Ph.D. in Quantitative Psychology 2022
The Ohio State University (Advisor: Trisha Van Zandt)
Dissertation: "Hierarchical Bayesian approaches to the exploration of mechanisms underlying group and individual differences"

M.A. in Quantitative Psychology 2018
The Ohio State University (Advisor: Trisha Van Zandt)
Thesis: "Semiparametric Bayesian model for response time distribution evaluation"

B.S. in Psychology 2016
Peking University

B.S. in Statistics 2016
Peking University

RESEARCH INTEREST

Quantitative methods; Bayesian statistics; Cognitive and decision-making modeling; Reward-related and risk-taking behaviors; Group and individual differences.

ACADEMIC APPOINTMENTS

Assistant Professor 2025 -
Nova Southeastern University

Postdoctoral Fellow 2024 - 2025
Indiana University, Bloomington

Statistician/Associate Researcher 2022 - 2024
Center for the Advancement of Research on Eating Behaviors, University of Kansas

Statistical Consultant 2020 - 2021
Department of Psychology, The Ohio State University

Graduate Teaching/Research Assistant 2017 - 2020
Department of Psychology, The Ohio State University

PUBLICATIONS

Chen, Y., Fang, J., Cesario, J., Liu, T., & Pleskac, T. J. (2025). Comparing One-Boundary and Two-Boundary Evidence Accumulation Models for Go/No-Go Processes: An Application to the Decision to Shoot. *Proceedings of the annual meeting of the cognitive science society.* https://doi.org/10.31234/osf.io/96nxd_v2.

Forbush, K. T., **Chen, Y.**, Joo, S., Hagan, K. E., Richson, B., Chapa, D. A., Johnson-Munguia, S., Christensen-Pacella, K. A., Bottera, A. R., Thomeczek, M. L., et al. (2025). The Eating Pathology Clinical Outcomes Tracker (EPCOT): A week-to-week assessment of eating-disorder cognitions and behaviors for research and clinical settings.

Christensen Pacella, K. A., **Chen, Y.**, Bottera, A. R., & Forbush, K. T. (2025). Changes in insomnia and binge eating symptom severity before and after eating disorders treatment in individuals with non-low weight binge-spectrum disorders. *Journal of Sleep Research.* https://doi.org/10.1111/jsr.14378.

Christensen Pacella, K., Forbush, K., **Chen, Y.**, Nation, M., Cushing, C. C., & Swinburne Romine, R. (2024). Negative affect as a mediator between exposure to fitspiration and thinspiration and disordered eating behaviors: An ecological momentary assessment study. *International Journal of Eating Disorders.* https://doi.org/10.1002/eat.24291.

Thomeczek, M. L., Forbush, K. T., **Chen, Y.**, Negi, S., Johnson-Munguia, S., L'Insalata, A., Rasheed, S. I., Like, E., & McDonald, J. (2024). Associations between weight discrimination, eating-disorder-related psychiatric impairment, and eating-disorder treatment interest across the weight spectrum. *International Journal of Eating Disorders.* https://doi.org/10.1002/eat.24277.

Chen, Y., Daly, H. R., Pitt, M. A., & Van Zandt, T. (2024). Assessing the distortions introduced when calculating d': A simulation approach. *Behavior Research Methods, 56*(7), 7728-7747. https://doi.org/10.3758/s13428-024-02447-8.

Chen, Y., Forbush, K. T., & Pleskac, T. (2024). Bayesian Graded Response Models for eating-disorder risk estimation using screening data. *Computational Brain & Behavior*, 1-19. https://doi.org/10.1007/s42113-024-00204-w.

Johnson-Munguia, S., Negi, S., **Chen, Y.**, Thomeczek, M. L., & Forbush, K. T. (2024). Eating disorder psychopathology, psychiatric impairment, and symptom frequency of atypical anorexia nervosa versus anorexia nervosa: A systematic review and meta-analysis. *International Journal of Eating Disorders, 57*(4), 761-779. https://doi.org/10.1002/eat.23989.

Chen, Y., Pacella, K. A. C., Forbush, K. T., Thomeczek, M. L., Negi, S., Doan, A. E., Wendler, A. M., Morgan, R. W., Rasheed, S. I., Johnson-Munguia, S., et al. (2024). Examining associations between disordered eating and harmful substance use in a nationally representative sample of US veterans. *International Journal of Eating Disorders.* https://doi.org/10.1002/eat.24194.

Thomeczek, M. L., Negi, S., **Chen, Y.**, & Forbush, K. T. (2023). The impact of trauma-related symptoms and neuroticism on compensatory behaviors in a sample of adults with eating disorders. *Eating Behaviors, 51*, 101819. https://doi.org/10.1016/j.eatbeh.2023.101819.

Negi, S., Thomeczek, M. L., **Chen, Y.**, Sharma, A. R., & Forbush, K. T. (2023). Compensatory eating disorder and full threshold DSM eating disorders: A comparison of eating-disorder-related psychiatric impairment and symptomatology. *Eating Behaviors, 51*, 101823. https://doi.org/10.1016/j.eatbeh.2023.101823.

Bohrer, B. K., **Chen, Y.**, Christensen, K. A., Forbush, K. T., Thomeczek, M. L., Richson, B. N., Chapa, D. A., Jarmolowicz, D. P., Gould, S. R., Negi, S., et al. (2023). A pilot multiple-baseline study of a mobile cognitive behavioral therapy for the treatment of eating disorders in university students. *International Journal of Eating Disorders, 56*(8), 1623–1636. https://doi.org/10.1002/eat.23987.

Chirstensen Pacella, K. A., **Chen, Y.**, Forbush, K. T., Cushing, C. C., & Romine, R. S. (2023). Prospectively predicting naturalistic exposure to fitspiration and thinspiration in young women with disordered eating by leveraging an ecological momentary assessment design. *Eating Behaviors, 50*, 101767. https:

//doi.org/10.1016/j.eatbeh.2023.101767.

Forbush, K. T., Christensen Pacella, K. A., Thomeczek, M. L., Gould, S. R., Chapa, D. A., Richson, B. N., Perko, V. L., Ayres, J., **Chen, Y.**, & Negi, S. (2023). The building healthy eating and self-esteem together for university students mobile app to treat eating disorders: User-centered research design and feasibility study. *JMIR Formative Research, 7*(1), e43504. https://formative.jmir.org/2023/1/e43504.

Forbush, K. T., Swanson, T. J., Gaddy, M., Oehlert, M., Doan, A., Morgan, R. W., O'Brien, C., **Chen, Y.**, Christian, K., Song, Q. C., et al. (2023). Design and methods of the longitudinal eating disorders assessment project research consortium for veterans. *International Journal of Methods in Psychiatric Research, 32*(2), e1941. https://doi.org/10.1002/mpr.1941.

Forbush, K. T., **Chen, Y.**, Chen, P.-Y., Bohrer, B. K., Hagan, K. E., Chapa, D. A., Christensen Pacella, K. A., Perko, V., Richson, B. N., Johnson Munguia, S. N., et al. (2023). Integrating "lumpers" versus "splitters" perspectives: Toward a hierarchical dimensional taxonomy of eating disorders from clinician ratings. *Clinical Psychological Science*, 21677026231186803. https://doi.org/10.1177/21677026231186803.

Chen, Y., Peruggia, M., & Van Zandt, T. (2022). Mutual interference in working memory updating: A hierarchical Bayesian model. *Journal of Mathematical Psychology, 111*, 102706. https://doi.org/10.1016/j.jmp.2022.102706.

Forbush, K. T., Richson, B. N., Swanson, T. J., Thomeczek, M. L., Negi, S., Johnson, S. N., Chapa, D. A., Morgan, R. W., O'Brien, C. J., Gould, S. R., Christensen, K. A., & **Chen, Y.** (2022). Screening for eating disorders across genders in college students: Initial validation of the Brief Assessment of Stress and Eating. *International Journal of Eating Disorders, 55*(11), 1553–1564. https://doi.org/10.1002/eat.23815.

Forbush, K. T., Swanson, T. J., **Chen, Y.**, Siew, C. S., Hagan, K. E., Chapa, D. A., Tregarthen, J., Wildes, J. E., & Christensen, K. A. (2022). Generalized network psychometrics of eating-disorder psychopathology. *International Journal of Eating Disorders, 55*(11), 1603–1613. https://doi.org/10.1002/eat.23801.

Chen, Y., Breitborde, N. J., Peruggia, M., & Van Zandt, T. (2022). Understanding motivation with the progressive ratio task: a hierarchical Bayesian model. *Computational Brain & Behavior, 5*(1), 81-102. https://doi.org/10.1007/s42113-021-00114-1.

PRESENTATIONS AND POSTERS

Chen, Y., Fang, J., Cesario, J., Liu, T., & Pleskac, T. J. (2025, August). *Comparing One-Boundary and Two-Boundary Evidence Accumulation Models for Go/No-Go Processes: An Application to the Decision to Shoot.* Poster presented at the 2025 Annual Meeting of the Cognitive Science Society. San Francisco, CA.

Fang, J., **Chen, Y.**, & Pleskac, T. J. (2025, August). *Modeling the dynamics of subjective probability judgments.* Talk presented at the 2025 Annual Meeting of the Society for Mathematical Psychology. Columbus, OH.

Chen, Y., Fang, J., Cesario, J., Liu, T., & Pleskac, T. J. (2025, August). *Comparing One-Boundary and Two-Boundary Evidence Accumulation Models for Go/No-Go Processes: An Application to the Decision to Shoot.* Talk presented at the 2025 Annual Meeting of the Society for Mathematical Psychology. Columbus, OH.

Chen, Y., Forbush, K. T., Pleskac, T., Fazzino, T. L., & Yi, R. (2024, November). *Pilot evidence supporting temporal discounting and reward learning as predictors for reduction of cognitive restraint symptom in eating disorders.* Poster presented at Psychonomic Society's 2024 Annual Meeting. New York, NY.

Like, E., Vanzhula, I. A., **Chen, Y.**, Sharma, A., & Forbush, K. T. (2024, November). *Is the clinical impairment assessment invariant across weight categories? implications for weight-related impairment.* Poster

presented at the 2024 Association for Behavioral and Cognitive Therapies special interest groups. Philadephia, PA.

Sharma, A., Bottera, A. R., **Chen, Y.**, Joo, S., Like, E., & Forbush, K. T. (2024, November). *Differential item functioning of the eating disorder diagnostic scale across cisgender and transgender or gender diverse individuals.* Poster presented at the 2024 Association for Behavioral and Cognitive Therapies special interest groups. Philadephia, PA.

Morgan, R. W., **Chen, Y.**, Forbush, K. T., Thomeczek, M. L., Negi, S., Christensen Pacella, K. A., Wendler, A. M., Bottera, A. R., Song, Q. C., Vanzhula, I. A., Doan, A. E, Oehlert, M. E., Mitchell, K. S., & Denning, M. (2024, September). *Associations between military-specific traumatic events and inappropriate compensatory behaviors in a nationally representative sample of Veterans.* Poster presented at the Eating Disorders Research Society Annual Meeting, Sitges, Spain.

Christensen Pacella, K.A., **Chen, Y.**, Bottera, A.R., & Forbush, K.T. (2024, September). *Changes in Insomnia and Binge Eating Symptom Severity Before, During, and After Eating Disorders Treatment in Non-Low Weight Binge-Spectrum Disorders.* Poster presented at the Eating Disorders Research Society Annual Meeting, Sitges, Spain.

Nation, M.B., **Chen, Y.**, Forbush, K.T. & Christensen Pacella, K.A.. (2024, September). *Positive Affect as a Potential Mediator Between Instagram Exposure and Disordered Eating Behaviors.* Poster presented at Eating Disorders Research Society Annual Meeting, Barcelona, Spain.

Chen, Y., Forbush, K. T., & Pleskac, T. (2024, May). *Estimating individual-level risk of eating disorders using screening scores and the bayesian graded response model.* Talk presented at the 2024 Annual Conference of the Association of Psychological Science, San Francisco, CA.

Chen, Y., Forbush, K. T., & Pleskac, T. (2024, May). *Estimating individual-level risk of eating disorders using screening scores and the bayesian graded response model.* Poster presented at the 2024 Annual Conference of the Association of Psychological Science, San Francisco, CA.

Vanzhula, I. A., **Chen, Y.**, Forbush, K. T., Morgan, R. W., Christensen Pacella, K. A., & Watson, D. (2024, May). *Longitudinal relationships between eating disorders and common comorbidities in veterans: Cross-lagged network model approach.* Poster presented at the 2024 Annual Conference of the Association of Psychological Science, San Francisco, CA.

Morgan, R. W., **Chen, Y.**, Forbush, K. T., Bottera, A. R., Negi, S., & Thomeczek, M. S. (2024, March). *Gender differences in the structure of internalizing symptoms in a national sample of military veterans.* Talk presented at the 2023 Hierarchical Taxonomy of Psychopathology Conference. San Diego, CA.

Thomeczek, M., Vanzhula, I. A., **Chen, Y.**, Bottera, A. R., Negi, S., L'Insalata, A., Johnson-Munguia, S., Like, E., Sharma, A., Bjorlie, K., & Forbush, K. T. (2024, March). *Hyper-palatable food intake at meal vs. binge episode may predict eating-disorder treatment response.* Poster presented at the 2024 International Conference on Eating Disorders, New York, NY.

Wendler, A., Oehlert, M., Gaddy, M., Forbush, K., Swanson, T., **Chen, Y.**, Thomeczek, M., Negi, S., Doan, A., Morgan, R. W., Rasheed, S., Bottera, A., Johnson-Munguia, S., Sharma, A. R., & Denning, M. (2023, October). *Collaborations in veterans health research: Identifying and treating eating disorders in veterans and active duty military.* Presentation at Advances in Medical Research-KC 2023 conference, Kansas City, MO.

Chen, Y., Daly, H., Pitt, M., & Van Zandt, T. (2023, November). *A simulation approach to assessing the amount by which a d' correction can distort your data.* Talk to be presented at Psychonomic Society's 2023 Annual Meeting. San Francisco, CA.

Nation, M., **Chen, Y.**, Forbush, K. T., & Christensen Pacella, K. A. (2023, November). *Trait Self-Comparison Predicts Affective Responses to Thinspiration and Fitspiration Imagery.* Talk to be presented

at the 2023 Association for Behavioral and Cognitive Therapies special interest groups.

Christensen Pacella, K. A., **Chen, Y.**, & Forbush, K. T. (2023, September). *Higher Baseline Insomnia Symptoms Predict Higher Binge Eating Symptoms After Treatment in Non-Low Weight Eating Disorders.* Poster presented at the 2023 Eating Disorder Research Society Conference. Boston, MA.

Richson, B., **Chen, Y.**, & Forbush, K. T. (2023, September). *Change in Eating-Disorder Pathology and Suicidality in a Nationally Representative Sample of Veterans Recently Separated from Service.* Poster presented at the 2023 Eating Disorder Research Society Conference. Boston, MA.

Thomeczek, M., **Chen, Y.**, Negi, S., Johnson-Munguia, S., ..., & Forbush, K. T. (2023, September). *Associations between weight discrimination, eating-disorder related impairment, and eating disorder treatment interest.* Poster presented at the 2023 Eating Disorder Research Society Conference. Boston, MA.

Negi, S., Thomeczek, M., **Chen, Y.**, & Forbush, K. T. (2023, September). *Compensatory Eating Disorder and Full Threshold DSM Eating Disorders: A Comparison of Eating-Disorder-Related Psychiatric Impairment and Symptomatology.* Poster presented at the 2023 Eating Disorder Research Society Conference. Boston, MA.

Chen, Y., Forbush, K., Swanson, T., Siew, S.Q., Hagan, K., Chapa, D., Tregarthen, J., Wildes, J., & Christensen, K. (2023, May). *Generalized Network Psychometrics: The Structure of Eating Disorders Is Best Explained By a Hybrid Latent Variable and Network Framework.* Poster presented at the convention of Association of Psychological Science. Washington, DC.

Chen, Y., Forbush, K., Swanson, T., Siew, S.Q., Hagan, K., Chapa, D., Tregarthen, J., Wildes, J., & Christensen, K. (2023, May). *Generalized Network Psychometrics: The Structure of Eating Disorders Is Best Explained By a Hybrid Latent Variable and Network Framework.* Talk presented at the convention of Association of Psychological Science. Washington, DC.

Thomeczek, M., Negi, S., **Chen, Y.**, & Forbush, K. (2022, September). *Interaction effects of trauma symptoms and neuroticism on inappropriate compensatory behaviors in a DSM-5 eating disorder population.* Poster presented at the Annual Meeting of the Eating Disorders Research Society. Philadelphia, PA.

Negi, S., Thomeczek, M., **Chen, Y.**, & Forbush, K. (2022, September). *Compensatory eating disorder and bulimia nervosa: A comparison of functional impairment and body dissatisfaction.* Poster presented at the Annual Meeting of the Eating Disorders Research Society. Philadelphia, PA.

Chen, Y., Peruggia, M., & Van Zandt, T.* (2022, July). *Mutual interference in working memory updating: A hierarchical Bayesian model.* Talk to be presented at the annual meeting of the Society for Mathematical Psychology and the International Conference on Cognitive Modelling, Toronto, CA. (*: presenting author).

Chen, Y., Peruggia, M., & Van Zandt, T. (2022, July). *Mutual interference in working memory updating: A hierarchical Bayesian model.* Talk presented at the virtual meeting of the Society for Mathematical Psychology and the International Conference on Cognitive Modelling.

Chen, Y., Peruggia, M., & Van Zandt, T. (2022, March). *Mutual interference in working memory updating: A hierarchical Bayesian model.* Presented at KU spring proseminar, Lawrence, KS.

Chen, Y., Breitborde, N., Peruggia, M., & Van Zandt, T. (2021, July). *A hierarchical Bayesian model for the continuous performance task.* Talk presented at the virtual meeting of the Society for Mathematical Psychology and the International Conference on Cognitive Modelling.

Chen, Y., Peruggia, M., & Van Zandt, T. (2021, May). *The Effect of Aging on Working Memory: Longer Execution Times, Increased Interference and More Serial Processing.* Talk presented at the virtual convention of the Association for Psychological Science.

Chen, Y., Breitborde, N., Peruggia, M., & Van Zandt, T. (2020, July). *A hierarchical Bayesian model for*

the progressive ratio test. Talk presented at the virtual meeting of the Society for Mathematical Psychology and the International Conference on Cognitive Modelling.

GRANT EXPERIENCE

Building Healthy Eating and Self-Esteem Together for University Students (BEST-U): A Pilot Randomized Controlled Trial of an mHealth Intervention for Binge-Spectrum Disorders
Agency: National Institute of Mental Health
Role: Co-Investigator (PI: Dr. Kelsie Forbush)
Status: Funded

TEACHING AND ADVISING EXPERIENCE

Instructor, Nova Southeastern University

- 1020 & Introduction to Psychology   Fall 2025
- 2900 & Introduction to Quantitative Psychology   Fall 2025

Teaching Assistant, The Ohio State University

- 3321 & Quantitative and Statistical Methods in Psychology   Fall 2017
- 2220 & Data Analysis in Psychology   Spring/Fall 2018; Spring/Fall 2019
- 7823 & Analysis of Repeated Measures and Longitudinal Data   Spring 2020
- 7820 & Fundamentals of Factor Analysis   Fall 2020
- 6820 & Introduction to Bayesian Statistics for Psychological Data   Spring 2021

Statistical Consultant, The Ohio State University   2020-2021

- Provide consultation to 20+ graduate students and faculty members per semester
- Advice and assistance on data-based topics:
    - Study design and research methodology
    - Data collection plan and power analysis
    - Data cleaning and management
    - Statistical analyses and modeling
    - Statistical software and coding
    - Interpretation of results
    - Visualization and presentation of results
    - General trouble shooting and response to reviewer comments

Student Mentorship, University of Kansas   2022-2024

- Provided statistical mentorship on graduate dissertations and undergraduate honor's thesis to 8 students in clinical psychology
- Topics include:
    - Study design and power analysis
    - Structural equation modeling and factor analysis

- Latent change score models
- Ecological momentary assessment data and analysis
- Longitudinal and linear mixed models
- Missing data imputation
- Mediation/moderation models
- Meta-analysis
- Generalized linear models
- Psychometric methods

TECHNICAL SKILLS

Software and programming languages

- R   Syntax, data management, analysis, trouble shooting
- SAS, SPSS, CEFA, Mplus   Proficient
- Python, OpenSesame, Cognition.Run   Experiment design & development
- PiLR   Mobile Health Application design
- LaTeX, Microsoft Office   Academic writing
- Qualtrics, REDCap   Survey data collection

SERVICE

Ad-Hoc Reviewer
Behavior Research Methods
Computational Brain & Behavior
Journal of Personality Assessment
Clinical Psychological Science
Journal of Computational Social Science
Psychological Methods
BMJ Public Health
JMIR Formative Research
Cognitive Science Society
Society for Mathematical Psychology
International Conference on Cognitive Modeling
Healthcare
Journal of Clinical Psychology
Sustainability
Annals of Epidemiology
Brain and Behavior
Journal of Experimental Psychology: Learning, Memory, and Cognition

Session Chair
Psychonomic Society's 2023 Annual Meeting (Session: Cognition III).

SOFTWARE AND WEB APPLICATIONS

R Shiny App: Estimation of d' using Signal Detection Theory. https://chenyiyang6647.shinyapps.io/shiny/.

- This web application accompanies Chen, Daly, Pitt, and Van Zandt (In press). It helps experimental psychologists to identify estimation distortion of the discriminability measure d' in their design and take steps to minimize its impact.

R package (with Swanson, T.): relapseRisk. https://github.com/tswanson222/relapseRisk.

- This R package is designed to provide weekly feedback and personalized treatment strategies for patients with an eating disorder.

HONORS AND AWARDS

- KU Postdoc Association Travel Award, University of Kansas   2024
- Summer Research Excellence Awards, The Ohio State University   2021
- Post candidacy award, The Ohio State University   2019
- Graduate fellowship, The Ohio State University   2016
- May Fourth scholarship, Peking University   2013
- Outstanding Freshman Scholarship, Peking University   2012

PROFESSIONAL AFFILIATIONS

Society for Mathematical Psychology
Association for Psychological Science
Psychonomics Society
Cognitive Science Society