

# Dawson Haddox

---

*Email:* dawsonhaddox@arizona.edu • *Website:* <https://dawsonhaddox.com/>

---

## EDUCATION

---

### University of Arizona

August 2025-May 2031 (Expected)

Ph.D. in Clinical Psychology

Advisor: Zachary Cohen (Personalized Treatment Lab)

### Dartmouth College

September 2021-June 2025 (Expected)

BA in Psychology, Minor in Computer Science

Summa Cum Laude | Phi Beta Kappa | Honors in the Major

Advisors: Nicholas C. Jacobson, Thalia Wheatley

## RESEARCH INTERESTS

---

My research uses data science methods (e.g., deep learning) and intensive longitudinal data (e.g., ecological momentary assessment, mobile and wearable sensing) to understand, measure, and predict mental health as idiographic, dynamic complex systems. I advance precision and scalable digital interventions by modeling the interindividual, temporal, and contextual variability in symptoms, behaviors, and treatment response. I also examine the psychometric foundations of ecological momentary assessment and passive sensing to ensure valid and reliable measurement of dynamic mental health processes.

## AWARDS & GRANTS

---

Lt. William Brewster Nickerson 1964 Psychology and Brain Sciences Prize for Excellence 2025  
and Leadership in Undergraduate Research

Exceptional Academic Achievement in Psychology and Brain Sciences 2025

Kaminsky Family Fund Thesis Award (\$1000) 2024

Rockefeller Center for Public Policy and the Social Sciences Honors Thesis Grant (\$2000) 2024

Dartmouth Department of Psychological and Brain Sciences Jack Baird Prize (\$815) 2024

Neukom Institute for Computational Science Travel Grant (\$1,000) 2024

UGAR Undergraduate Conference Grant (\$500) 2024

Bones Gate Academic Foundation (\$250) 2024

David C. Hodgson Endowment for Undergraduate Research Award (\$5,800) 2024

James O. Freedman Presidential Scholar (\$2,400) 2023

---

### PEER-REVIEWED PUBLICATIONS

---

- Collins, A. C., Price, G. D., Dainer-Best, J., **Haddox, D.**, Beevers, C. G., & Jacobson, N. C. (2024). Changes to positive self-schemas after a positive imagery training are predicted by participant characteristics in a sample with elevated depressive symptoms. *Cognitive Therapy and Research*. <https://doi.org/10.1007/s10608-024-10544-3>
- Haddox, D.**, Mackin, D., Griffin, T., Heinz, M. V., Nemesure, M. D., Collins, A. C., Price, G., Lekkas, D., Pillai, A., Nepal, S., Campbell, A. T., Jacobson, N. C. (invited resubmission). Psychometric Properties and Validity of a Mobile Patient Health Questionnaire-9 (MPHQ-9) for Ecological Momentary Assessment in Depressed Adults. [https://osf.io/preprints/psyarxiv/rfvy5\\_v3](https://osf.io/preprints/psyarxiv/rfvy5_v3). *Psychological Assessment*
- Langener, A. M., Price, G. D., **Haddox, D.**, Heinz, M. V., Mackin, D. M., Nemesure, M. D., Collins, A. C., Griffin, T. Z., Pillai, A., Nepal, S., Lekkas, D., Campbell, A. T., & Jacobson, N. C. (invited resubmission). Predicting weekly variability in depressive symptoms among individuals diagnosed with Major Depressive Disorder using deep learning and passively gathered movement data. *Psychopathology and Clinical Science*.
- Langener, A. M., **Haddox, D.**, Mackin, D. M., Price, G. D., Lekkas, D., Collins, A. C., Griffin, T. Z., Heinz, M. V., Nemesure, M. D., Nepal, S., Pillai, A., Campbell, A. T., & Jacobson, N. C. (under review). Predicting and detecting alcohol consumption in individuals diagnosed with major depressive disorder.
- Collins, A. C., **Haddox, D.**, Calafiore, C., Gallagher, M. R., Heinz, M. V., Lekkas, D., Griffin, T. Z., Nemesure, M. D., Price, G. D., Nepal, S., Pillai, A., Mackin, D. M., Campbell, A. T., Winer, E. S., & Jacobson, N. C. (under review). Digital biomarkers of avoidance and their relationship with depression and anxiety symptoms.
- Templeton, E., Chang, L., Cone LeBeaumont, M., Nook, E., **Haddox, D.**, Aiman, E., & Wheatley, T. (under review). From talk to telepathy: The spontaneous use of insider language in casual conversation. <https://doi.org/10.31234/osf.io/g38cx>

---

### MANUSCRIPTS IN PREPARATION

---

- Mackin, D. M., Dorris, H., **Haddox, D.**, Price, G. D., Kotov, R., Ruggero, C. J., Feltman, S. M., Luft, B. J., & Jacobson, N. C. (in prep). Predicting daily PTSD symptoms in World Trade Center responders using passively-collected movement data: An idiographic deep learning approach.
- Mackin, D. M., Dorris, H., York, C., **Haddox, D.**, Schleider, J., & Jacobson, N. C. (in prep). Predicting individual response to digital single session interventions for adolescent depression: A secondary analysis using ensemble machine learning models.

Hill, C., Setiawan, J., Mari, S., Lawal, O., Sawaumi, T., & **Haddox, D.** (in prep). A cross-cultural analysis of feelings and behaviors in friendships, romantic partnerships, and parent-child relationships.

---

## CONFERENCE PRESENTATIONS

---

**Haddox, D.**, Mackin, D. M., Heinz, M. V., Nemesure, M. D., Collins, A. C., Price, G. D., Griffin, T. Z., Pillai, A., Nepal, S., Lekkas, D., Campbell, A. T., & Jacobson, N. C. (November, 2024). *Assessing the psychometric properties and validity of an ecological momentary assessment version of the PHQ-9 with sliding scales*. Poster presented at the 58<sup>th</sup> Annual Convention of the Association for Behavioral and Cognitive Therapies, Philadelphia, PA.

Price, G. D., Langener, A. M., **Haddox, D.**, Heinz, M. V., Mackin, D. M., Nemesure, M. D., Collins, A. C., Griffin, T. Z., Pillai, A., Nepal, S., Lekkas, D., Campbell, A. T., & Jacobson, N. C. (May, 2024). *Predicting weekly variability in depressive symptoms using deep learning and passively-collected movement data*. Poster presented at the Supporting Health by Technology Conference, Groningen, Netherlands.

**Haddox, D.**, Aiman, E., Templeton, E., & Wheatley, T. (May, 2024). *Detecting insider language in natural conversation*. Poster presented at the Karen E. Wetterhahn Science Symposium, Hanover, NH.

**Haddox, D.**, Aiman, E., Templeton, E., & Wheatley, T. (May, 2024). *Detecting insider language in natural conversation*. Poster presented at The Love Consortium's 2024 TLC Love Conference, Chapel Hill, NC.

Templeton, E., **Haddox, D.**, Aiman, E., Chang, L., & Wheatley, T. (February, 2024). *Conversational launch pads and insider language between strangers and friends*. Poster presented at the Annual meeting of the Society for Personality and Social Psychology, Emotion Preconference, San Diego, CA.

Price, G. D., Langener, A. M., **Haddox, D.**, Heinz, M. V., Mackin, D. M., Nemesure, M. D., Collins, A. C., Griffin, T. Z., Pillai, A., Nepal, S., Lekkas, D., Campbell, A. T., & Jacobson, N. C. (October, 2023). *Predicting weekly variability in depressive symptoms among individuals diagnosed with major depressive disorder using deep learning and passively gathered movement data*. Poster presented at the Center for Technology and Behavioral Health's Digital Health Summit: Clinically-Validated Digital Therapeutics: Innovations in Scientific Discovery, Clinical Applications, and Global Deployment, Hanover, NH.

---

## RESEARCH EXPERIENCE

---

**AI & Mental Health: Innovation in Technology-Guided Healthcare Lab** Aug 2023-Present  
*Biomedical Data Science and Psychiatry, Dartmouth Geisel School of Medicine*  
**Position:** Research Assistant

**Supervisor:** Nicholas Jacobson, PhD

**Responsibilities:**

- Conducted an independent project to evaluate the psychometric properties and validity of an ecological momentary assessment measure of depression.
- Contributed to the writing and programming for a manuscript using network analysis to explore associations between depression symptoms, anxiety symptoms, and passive sensing markers of avoidance.
- Contributed to the writing and programming for manuscripts using deep learning to predict depression symptoms, depression variability, and PTSD symptoms with ecological momentary assessment and passive sensing data.
- Conducted literature searches and contributed to the writing for manuscripts using machine learning to predict responses to a positive imagery digital intervention for depression and to single session interventions for adolescent depression.
- Assisted in training a mental health chatbot by adapting therapy manuals for anxiety and eating disorders into patient-therapist dialogues and evaluating the performance of different model architectures.

**Dartmouth Social Systems Lab**

Sep 2022-Present

*Department of Psychological and Brain Sciences, Dartmouth College*

**Position:** Presidential Scholar

**Supervisor:** Thalia Wheatley, PhD

**Responsibilities:**

- Designed an experiment to investigate the causal impact of insider language on social connection, leveraging insights from exploratory pilot study analyses.
- Assisted in fMRI scanning for a study on neural synchrony during independent and collaborative storytelling tasks; reviewed literature to identify methods for quantifying the accuracy of participants' free recall of each story; and explored various recall rating approaches, including hand-scoring, LLMs, semantic similarity analysis, and automated summary evaluation.
- Conducted an independent project to investigate the applicability of the peak-end rule to retrospective assessments of connection in conversation.
- Annotated instances of insider language in conversation recordings, designed categories and sub-categories to categorize hundreds of instances of insider language, and assisted with conducting analyses and creating visualizations.
- Corrected computer vision annotations on a recording of a social gathering to track the movement of different people into different social groups and in and out of the venue.

**Professor Charles T. Hill**

*Department of Psychological Sciences, Whittier College*

May 2024-Present

**Position:** Collaborator

**Responsibilities:**

- Designed and planned a cross-cultural study on feelings and behaviors in friendships, romantic partnerships, and parent-child relationships.
- Developed and refined a comprehensive Qualtrics questionnaire to survey participants on demographics, relationship characteristics and dynamics, and cultural norms.

- Coordinated with international professors to translate the questionnaire into Filipino, Japanese, Italian.

## **CLINICAL EXPERIENCE**

---

**Hanover Center for Cognitive Behavioral Therapies**

Jan 2024-Mar 2024

**Position:** Clinical Assistant

**Supervisor:** Seoka Salstrom, PhD

**Responsibilities:**

- Composed psychoeducational and neuropsychological evaluation reports with oversight from the clinic's neuropsychological and learning disabilities specialist.
- Conducted literature reviews to help clinical psychologists stay current with emerging treatment modalities and best practices.
- Created an organized database of psychometric tests, diagnostic measures, associated research papers, and guidelines for easy reference.
- Provided technical support by troubleshooting and resolving software and computer problems that clinicians were unable to solve themselves.
- Engaged in mentorship and advice meetings with clinicians from diverse backgrounds, and attended weekly practice and clinical meetings.
- Efficiently managed client communications, resolving issues via email and assisting in-person clients with administrative questions and concerns.
- Performed various administrative duties, including billing, creating guides for future employees, managing office supplies and mail, and playing with child clients while clinicians met with their parents.

## **PROFESSIONAL AFFILIATIONS**

---

Association for Behavioral and Cognitive Therapies

2024