Dawson Haddox

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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 and Leadership in Undergraduate Research	2025
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. *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 depressiv=e 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 58th 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