Dawson Haddox

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EDUCATION

Dartmouth College   September 2021-June 2025 (Expected)
BA in Psychology, Minors in Computer Science and Philosophy
- **Cumulative GPA:** 3.96/4.00
- **Psychology GPA:** 4.00/4.00
- **Honors Thesis:** *Naturalistic vs. Artificial Conversational Launchpads (Planned)*
    - **Advisor:** Thalia Wheatley, PhD
- **Relevant Coursework:** Abnormal Psychology; Forms of Therapy; Experimental Design, Methodology, and Data Analysis Procedures; Laboratory in Psychology; Modern Statistical Computing; Machine Learning; Deep Learning; Health Informatics; Network Science and Complex Systems

AWARDS & GRANTS

Neukom Institute for Computational Science Travel Grant ($1,000)	2024
First Honor Group, Rufus Choate Scholar (Top 5% Annual GPA)	2024
UGAR Undergraduate Conference Grant ($500)	2024
Bones Gate Academic Foundation ($250)	2024
David C. Hodgson Endowment for Undergraduate Research Award ($5,800)	2024
Second Honor Group (Top 15% Annual GPA)	2023
James O. Freedman Presidential Scholar ($2,400)	2023
Bones Gate Academic Foundation ($250)	2023
Third Honor Group (Top 35% Annual GPA)	2022

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, resulting in a first-authored poster presentation and first-authored manuscript in preparation.
- 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, resulting in a co-authored manuscript that is under review and one co-authored manuscript in preparation.
- 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, resulting in a co-authored manuscript that is under review and a co-authored manuscript in preparation.
- 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:
- 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, and Italian.

PEER-REVIEWED PUBLICATIONS

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. (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.*

Collins, A. C., Price, G. D., Dainer-Best, J., **Haddox, D.**, Beevers, C. G., & Jacobson, N. C. (under review). Changes to positive self-schemas after a positive imagery training are predicted by participant characteristics in a sample with elevated depressive symptoms.

MANUSCRIPTS IN PREPARATION

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. (in prep). Assessing the psychometric properties and validity of a Mobile Patient Health Questionnaire-9 for ecological momentary assessment.

Templeton, E., Chang, L., Cone LeBeaumont, M., Nook, E., **Haddox, D.**, Aiman, E., & Wheatley, T. (in prep). From talk to telepathy: The spontaneous use of insider language in conversation.

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

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.

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 to be 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.

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 handling billing, creating guides for future employees, managing office supplies and mail, playing with child clients while clinicians met with their parents, and running errands.

LEADERSHIP & EXTRACURRICULARS

Dartmouth Philosophy Society   Sep 2021-Present
Vice President

Dartmouth Sings A Cappella   Sep 2021-Present
Event Planner

PROFESSIONAL AFFILIATIONS

Association for Behavioral and Cognitive Therapies   2024

WORKSHOPS

The Center for Suicide Research and Prevention Webinar   Jun 2024

Shared Reality Virtual Mini-Conference   Feb 2024

TECHNICAL SKILLS

Python, R/RStudio, Javascript, HTML, CSS, Java, C, SQL, Unix, Git/GitHub, Excel, Google Sheets, Qualtrics