

**The Faculty of Medicine of Harvard University
Curriculum Vitae**

Date Prepared: 6/27/25
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Education:

08/13 - 05/17	BS	Biology	University of Arkansas
08/17 - 12/19	MS	Clinical Psychology Mentor: E. Samuel Winer, PhD	Mississippi State University
06/22 - 06/23	Pre-Doctoral Internship	Clinical Psychology	Dartmouth-Hitchcock Medical Center
08/17 - 08/23	PhD	Clinical Psychology Mentor: E. Samuel Winer, PhD	Mississippi State University

Postdoctoral Training:

08/23 - 12/24	T32 Postdoctoral Fellow	Science of Co-Occurring Disorders Mentor: Nicholas C. Jacobson, PhD	Dartmouth College
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Faculty Academic Appointments:

01/25 - Present	Member of the Faculty	Psychiatry	Harvard Medical School
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Appointments at Hospitals/Affiliated Institutions:

01/25 - Present	Investigator	Psychiatry	Massachusetts General Hospital
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Major Administrative Leadership Positions:

Local

2025-	Director of Digital Phenotyping and Therapeutics Research	Depression Clinical and Research Program Massachusetts General Hospital
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Committee Service:

Local

2022	Undergraduate Thesis Committee Member	Shackouls Honors College Mississippi State University
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Professional Societies:

2017—	Association for Psychological Sciences	Member
2018—	Society for a Science of Clinical Psychology	Member
2019—	Association for Behavioral and Cognitive Therapies	Member
2024—		Member, Program Committee
2024—	Society for Digital Mental Health	Member

Editorial Activities:

- **Ad hoc Reviewer**

Aging and Mental Health
BMC Medicine
BMC Psychiatry
British Journal of Health Psychology
Clinical Psychology Review
Cognitive Therapy and Research
Communications Psychology
Current Psychology
Frontiers in Psychology
Journal of Affective Disorders
Journal of Clinical Psychology
Journal of Positive Psychology
Journal of Psychopathology and Clinical Science
Nature Mental Health
Neuropsychiatric Disease and Treatment
Personality and Individual Differences
Scientific Reports
Stress and Health

Honors and Prizes:

2013-2017	Arkansan Non-Resident Tuition Award	University of Arkansas	Education
2019, 2021	College of Arts and Sciences Graduate Student Travel Support Award	Mississippi State University	Research
2018, 2019, 2021	Department of Psychology Travel Award	Mississippi State University	Research
2024, 2024	Department of Biomedical Data Science Travel Award	Dartmouth College	Research
2024	Postdoctoral Scholar Professional Development Award	Dartmouth College	Research

Report of Funded Projects

Past

2023-2024 Positive Valence System Dysfunction in Depression and Cannabis Use: A Pilot and Feasibility Study
National Institute on Drug Abuse P30DA029926
MPI: Collins/Jacobson
This study sought to develop a digital therapeutic to treat positive valence systems dysfunction in depression and cannabis use by including persons with lived experiences.

Current

2024-2025 Use of a Generative AI (Gen-AI) Chatbot for Treating Anxiety and Depression Among Persons with Cannabis Use Disorder (CUD)
P30 Pilot Research Grant, National Institute on Drug Abuse
MPI: Jacobson/Heinz/Collins; \$20,000
The goal of this study is to work directly with persons of lived experiences (i.e., those who have depression or anxiety with cannabis use disorder) to iteratively refine and apply our generative artificial intelligence app to populations with these co-occurring disorders.

2025-2030 AMP-C: A Digital Therapeutic for Reward Dysfunction in Co-Occurring Depression and Cannabis Use (funded on first submission)
National Institute on Drug Abuse K23 DA062034
PI; \$998,200
The goal of this study is to test the preliminary efficacy of AMP-C, compared to an active control group, for positive valence systems dysfunction in persons with clinical depression and cannabis use.

Projects Submitted for Funding

- 2025-2027 Digital Biomarkers of Positive Valence Systems Functioning in a Transdiagnostic Sample
National Institute of Mental Health R21 MH141522
MPI: Jacobson/Collins; \$449,625
The goal of this study is to evaluate whether passive sensing data can predict rapid changes in PVS functioning over time in a transdiagnostic, clinical sample within and across days using deep learning models and to determine which PVS features predict future changes in weekly psychopathology symptoms.
- 2025-2028 Evaluating the Preliminary Effectiveness of a Generative Artificial Intelligence Chatbot for the Post-Acute Management of Suicide after Discharge from a Psychiatric Inpatient Unit
National Institute of Mental Health R34 MH141054
MPI: Jacobson/Collins/Heinz; \$762,115
The goal of this study is to conduct a randomized controlled trial with persons discharged from an inpatient psychiatric unit to evaluate the effectiveness of Therabot, compared to a control group, in reducing STBs.
- 2025-2030 Reward Devaluation as a Precise Predictor of Therapeutic Progress and Outcome
National Institute of Mental Health R01
Co-Investigator (MPI: Winer/Mills)
The goal of this study is to predict treatment changes in reward devaluation using behavioral tasks while also investigating the idiographic networks of depression and reward devaluation over time.
- 2026-2028 Neural Reward Activity as a Predictor of Treatment Response in Co-Occurring Depression and Cannabis Use
Brain & Behavior Research Foundation Young Investigator Grant
PI; \$69,909
The goal of this study is to investigate how neural activity during reward-based tasks predict treatment response to persons with co-occurring depression and cannabis use.
- 2026-2027 Time-varying and idiographic models to determine short-term dynamics of suicide risk
American Psychological Foundation John and Polly Sparks Early Career Grant for Psychologists Investigating Serious Emotional Disturbance
PI; \$21,985
The goal of this study is to investigate the dynamic nature of suicide in adolescents recently discharged from an inpatient unit.
- 2026-2029 The semantic impact of social media content on adolescents' depressive symptoms
The Huo Family Foundation Junior Faculty Research Grant
PI; \$795,332
The goal of the current study is to investigate how the semantic characteristics of adolescents' social media interactions predict momentary changes in depressive symptoms.

Report of Local Teaching and Training

Teaching of Students in Courses:

2020	General Psychology Undergraduate Students	Mississippi State University 3 hours/week for 1 semester
2021, 2022	Abnormal Psychology Undergraduate Students	Mississippi State University 3 hours/week for 1 semester

Clinical Supervisory and Training Responsibilities:

2023-2024	Supervision of pre-doctoral intern	Dartmouth-Hitchcock Medical Center 1 hour/week; 1:1 supervision for 6 months
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Research Supervisory and Training Responsibilities:

2017-2022	Supervision of research assistants (5-6 research assistants per year)	Mississippi State University 1-hour lab meeting/week; 1:1 supervision for ½ hour/week/research assistant
2022—	Supervision of research assistants (3-4 research assistants per year)	Dartmouth College 2-hour lab meeting/month; 1:1 supervision for 1 hour/month/research assistant
2025—	Supervision of research assistants (3-4 research assistant per year)	Massachusetts General Hospital 1:1 supervision for ½ hour/week/research assistant
2025—	Supervision of pre-doctoral interns (2 interns per year)	Massachusetts General Hospital 1:1 supervision for 1 hour/week/intern

Formally Mentored Harvard Students (Medical, Dental, Graduate, and Undergraduate):

2025-	Deano Izaguirre / Undergraduate Student, Harvard College Career stage: undergraduate student. Mentoring role: research mentor
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Other Mentored Trainees and Faculty:

2017-2018	Annie Sheffield, MA / Industrial-organizational psychology graduate student, Auburn University Career stage: undergraduate student. Mentoring role: research mentor Accomplishments: first-authored poster presentation
2018-2019	Carson Allen, BS / Associate Director of Ambulatory Operations, University of Mississippi Medical Center Career stage: undergraduate student. Mentoring role: research mentor Accomplishments: recipient of Henry Family Undergraduate Excellence Fund; first-authored poster presentation
2018-2020	McKenzie Fish, BS / Nursing student, Indiana University Health

	Career stage: undergraduate student. Mentoring role: research mentor Accomplishments: first-authored poster presentation
2018-2020	Isabelle Comfort, MS / Assistant Clinical Supervisor, Bista Career stage: undergraduate student. Mentoring role: research mentor Accomplishments: first-authored poster presentation
2019-2020	Toni Arroyave, MS / Human Resources Specialist, U.S. Department of Veterans Affairs Career stage: undergraduate student. Mentoring role: research mentor Accomplishments: first-authored poster presentation
2019-2022	Colton Watson, BS / Medical student, University of Mississippi Medical Center Career stage: undergraduate student. Mentoring role: research mentor Accomplishments: recipient of Provost Scholar's Independent Research Award; co-authored paper in <i>Journal of Affective Disorders Reports</i> ; three co-authored poster presentations
2020-	Michael Gallagher, MS / Clinical psychology intern, The Ohio State University Wexner Medical Center Career stage: graduate student. Mentoring role: research mentor Accomplishments: poster award for best poster at the Clinical Research Methods and Statistics Special Interest Group at the Annual Convention for the Association for Behavioral Cognitive Therapies; four first-authored manuscripts in <i>Journal of Affective Disorders</i> , <i>British Journal of Clinical Psychology</i> , <i>Journal of Behavior Therapy and Experimental Psychiatry</i> , and <i>the Behavior Therapist</i> ; one first-authored symposium presentation; four first-authored poster presentations
2020-2022	Julie Anne Miller, BS / Clinical psychology doctoral student, Sam Houston State University Career stage: undergraduate student. Mentoring role: research mentor Accomplishments: recipient of Shackouls Research Fellowship; two co-authored papers in <i>PLOS ONE</i> and <i>Journal of Affective Disorders Reports</i> ; three first-authored poster presentations; two co-authored poster presentations
2023-2024	Brianna Trudeau, BS / Clinical psychology doctoral student, Eastern Michigan University Career stage: undergraduate student. Mentoring role: research mentor Accomplishments: co-authored paper in <i>Psychiatry Research</i>
2023-2024	Abigail Salzhauer, BS / Clinical psychology doctoral student, Pace University Career stage: undergraduate student. Mentoring role: research mentor Accomplishments: co-authored paper in <i>JMIR Formative Research</i>
2023-2024	Abigail Jewett, BS / Research assistant Career stage: post-baccalaureate researcher. Mentoring role: research mentor Accomplishments: co-authored paper in <i>Psychiatry Research</i>
2023-2024	Victor Moreno / Undergraduate student, Dartmouth College Career stage: undergraduate student. Mentoring role: research mentor Accomplishments: first-authored poster presentation, co-authored paper in <i>Journal of Affective Disorders</i>

- 2023-2024 Jenny Oh / Undergraduate student, Dartmouth College
Career stage: undergraduate student. Mentoring role: research mentor
Accomplishments: co-authored papers in *JMIR Formative Research* and *Journal of Affective Disorders*
- 2023- Dawson Haddox / Undergraduate student, Dartmouth College
Career stage: undergraduate student. Mentoring role: research mentor
Accomplishments: first-authored poster presentation; co-authored paper in *Cognitive Therapy and Research*
- 2024- Julia Pye / Undergraduate student, Dartmouth College
Career stage: undergraduate student. Mentoring role: research mentor
Accomplishments: awarded the Benjamin J Benner '69 Undergraduate Research Fellowship; awarded the Dartmouth Undergraduate Research Department funding
- 2025- Ana Sheehan, MA / Clinical psychology intern, Massachusetts General Hospital/Harvard Medical School
Career stage: pre-doctoral intern. Mentoring role: research mentor.
- 2025- Rachel Walsh, MA / Clinical psychology intern, Massachusetts General Hospital/Harvard Medical School
Career stage: pre-doctoral intern. Mentoring role: research mentor.

Report of Regional, National and International Invited Teaching and Presentations

- ☒ No presentations below were sponsored by 3rd parties/outside entities
- ☐ Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified.

Regional

- 2017 Uncontrolled eating: A mediating factor between impulse control difficulties and binge eating (oral presentation)
Arkansas Symposium for Psychology Students
Conway, AR
- 2018 Is fear of happiness associated with behavioral aversion to reward?
Mississippi State University
Mississippi State, MS
- 2019 Do we ever truly know our clients?
Mississippi State University
Mississippi State, MS
- 2019 What happens next? A trainee's perspective
Mississippi State University
Mississippi State, MS
- 2022 Positive valence system dysfunction as a treatment target in depression
Center for Technology and Behavioral Health, Dartmouth College (invited presentation)

Lebanon, NH

- 2023 Reward processing in depression: Evidence of devaluation and implications for treatment (invited presentation)
Dartmouth-Hitchcock Medical Center
Lebanon, NH
- 2024 Bridging gaps in intervention design through user-centric feedback: The development of a digital therapeutic to treat reward dysfunction in depression and cannabis use (invited presentation)
Dartmouth College
Lebanon, NH
- 2024 Positive valence system dysfunction as a treatment target in depression (invited presentation)
Dartmouth College
Lebanon, NH
- 2024 Development of a digital therapeutic alongside persons with lived experiences to treat reward dysfunction in depression and cannabis use (invited presentation)
Center for Technology and Behavioral Health, Dartmouth College
Lebanon, NH
- 2024 Digital biomarkers of avoidance and their relationship with depression and anxiety symptoms (invited presentation)
The New School for Social Research
New York, NY

National

- 2023 Semantic signals in self-reference: The detection and prediction of depressive symptoms from the daily diary entries of a sample with major depressive disorder (symposium talk)
Association for Behavioral and Cognitive Therapies
Seattle, WA
- 2023 The role of positive emotions in depression and anxiety: Evidence of positivity avoidance and treatment implications (symposium chaired)
Association for Behavioral and Cognitive Therapies
Seattle, WA
- 2023 Predicting changes in self-referential processing after a positive imagery training in a sample with elevated depressive symptoms (invited presentation)
University of Texas at Austin
Austin, TX
- 2024 Depressive symptoms as a heterogeneous and constantly evolving dynamical system: Idiographic depressive symptom networks of rapid symptom changes among persons with major depressive disorder (symposium talk)
Association for Behavioral and Cognitive Therapies

Philadelphia, PA

- 2024 Use of passively collected actigraphy data to detect individual depressive symptoms in a clinical subpopulation and a general population (symposium talk)
Anxiety & Depression Association of America
Boston, MA
- 2025 The power of data: Exploring novel frontiers of depression prediction and prevention (invited panelist)
National Collegiate Research Conference
Boston, MA
- 2025 A multimodal investigation of reward processing as a transdiagnostic mechanism in depression and anxiety (symposium chaired)
Association for Psychological Sciences
Washington, D.C.
- 2025 Digital biomarkers of avoidance and their relationship with depression and anxiety symptoms (symposium talk)
Association for Psychological Sciences
Washington, D.C.

International

- 2023 Self-referential processing and depression: A systematic review and meta-analysis
International Convention of Psychological Science
Brussels, BE
- 2024 Investigating psychopathology symptoms and positivity appraisals: A network comparison (invited presentation)
University of Exeter
Exeter, UK
- 2024 Development of a digital intervention for positive valence system dysfunction in co-occurring depression and cannabis use
College on Problems of Drug Dependence
Montreal, CA

Report of Clinical Activities and Innovations

Past and Current Licensure and Board Certification:

- 2025— Licensed Psychologist, Massachusetts

Recognition:

2021, 2024	Publicity of 2021 <i>Journal of Clinical Psychology</i> paper on the association between fear of happiness and depression	Psychology Today
2023	Publicity of 2023 <i>Journal of Behavior Therapy and Experimental Psychiatry</i> paper on the inter-relations among avoidance, dampening, and devaluation of reward	Psychology Today, Washington Post, Mississippi State College of Arts & Sciences News Release
2020, 2023	Citation of 2019 <i>Psychology Research and Behavior Management</i> paper on the definition of anhedonia	Verywell Mind
2024	Publicity of 2023 <i>Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems</i> paper on detecting depression with AI and facial expressions on the smartphone	Medical News Observer, iHeart, Tech Explorer, and Theravive

Report of Scholarship

ORCID: 0000-0002-8258-2272

Peer-Reviewed Scholarship in print or other media:

Research Investigations

*indicates co-first authorship **indicates student/trainee

1. Winer ES, Jordan DG, **Collins AC**. Conceptualizing anhedonias and implications for depression treatments. *Psychology Research and Behavior Management*. 2019;12:324-335. doi: 10.2147/PRBM.S159260
2. Lass ANS, Winer ES, **Collins AC**, Rokke PD. The associations among distress tolerance, unhelpful coping behaviors, and symptoms of depression: A network analysis. *Cognitive Therapy and Research*. 2020;44(6):1077-1090. doi: 10.1007/s10608-020-10131-2
3. **Collins AC**, Lass ANS, Jordan DG, Winer ES. Examining rumination, devaluation of positivity, and depressive symptoms via community-based network analysis. *Journal of Clinical Psychology*. 2021;77(10):2228-2244. doi: 10.1002/jclp.23158
4. Jordan DG, **Collins AC**, Dunaway MG, Kilgore J, Winer ES. Negative affect interference and fear of happiness are independently associated with depressive symptoms over time. *Journal of Clinical Psychology*. 2021;77(3):646-660. doi: 10.1002/jclp.23066
5. **Gallagher MR, **Collins AC**, Winer ES. Quantifying devaluation of positivity via self-report measures: A review and directions for future research. *the Behavior Therapist*. 2022;45(4):130-134.

6. Bryant JS, **Gallagher MR, **Collins AC**, Winer ES. Individuals fearing positivity do not perceive positive affect treatments as strong fits: A novel experimental finding and replication. *Journal of Behavior Therapy and Experimental Psychiatry*. 2023;79:101830. doi: 10.1016/j.jbtep.2022.101830
7. **Collins AC**, Jordan DG, Bartoszek G, Kilgore J, Lass ANS, Winer ES. Longitudinal and experimental investigations of implicit happiness and explicit fear of happiness. *Cognition and Emotion*. 2023;37(5):973-989. doi: 10.1080/02699931.2023.2223907
8. **Collins AC**, Lass ANS, Winer ES. Negative self-schemas and devaluation of positivity in depressed individuals: A moderated network analysis. *Current Psychology*. 2023;42: 32566–32575. doi: 10.1007/s12144-023-04262-4
9. **Gallagher MR, **Collins AC**, Winer ES. A network analytic investigation of avoidance, dampening, and devaluation of positivity. *Journal of Behavior Therapy and Experimental Psychiatry*. 2023;81:101870. doi: 10.1016/j.jbtep.2023.101870
10. *Kilgore J, ***Collins AC**, **Miller JAM, Winer ES. Does grit protect against the adverse effects of depression on academic achievement? *PLOS ONE*. 2023;18(7):e0288270. doi: 10.1371/journal.pone.0288270
11. Calafiore C, **Collins AC**, Bartoszek G, Winer ES. Assessing relinquishment of positivity as a central symptom bridging anxiety and depression. *Journal of Affective Disorders*. 2024;367:38-48. doi: 10.1016/j.jad.2024.08.031
12. Calafiore C, **Collins AC**, **Miller JAM, **Watson C, Winer ES. Examining the unique and interactive impacts of anhedonia and fear of happiness on depressive symptoms. *Journal of Affective Disorders Reports*. 2024;15:100702. doi: 10.1016/j.jadr.2023.100702
13. **Collins AC**, **Bhattacharya S, **Oh JY, **Salzhauer A, Taylor CT, Wolitzky-Taylor K, Aupperle RL, Budney AJ, Jacobson NC. Inclusion of individuals with lived experiences in the development of a digital intervention for co-occurring depression and cannabis use: A mixed-methods investigation. *JMIR Formative Research*, 2024;8:e54751. doi: 10.2196/54751
14. **Collins AC**, Lekkas D, Struble CA, **Trudeau BM, **Jewett AD, Griffin TZ, Nemesure MD, Price GD, Heinz MV, Nepal S, Pillai A, Mackin DM, Campbell AT, Budney AJ, Jacobson NC. From mood to use: Using ecological momentary assessments to examine how anhedonia and depressed mood impact cannabis use in a depressed sample. *Psychiatry Research*. 2024;339:116110. doi: 10.1016/j.psychres.2024.116110
15. **Collins AC**, Price GD, Dainer-Best J, **Haddox D, Beevers CG, Jacobson NC. 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*. 2024; doi: 10.1007/s10608-024-10544-3
16. **Collins AC**, Price GD, Woodworth RJ, Jacobson NC. Predicting individual response to a web-based positive psychology intervention: A machine learning approach. *The Journal of Positive Psychology*. 2024;19(4):675–685. doi: 10.1080/17439760.2023.2254743
17. **Collins AC**, Winer ES. Self-referential processing and depression: A systematic review and meta-analysis. *Clinical Psychological Science*. 2024;12(4):721-750. doi: 10.1177/21677026231190390

18. **Gallagher MR, **Collins AC**, Goldman S, Winer ES. How etiological beliefs contribute to the structure of depression symptom networks. *British Journal of Clinical Psychology*. 2024;63(3):431-452. doi: 10.1111/bjc.12476
19. Kline EA, Lekkas D, Bryan A, Nemesure MD, Griffin TZ, **Collins AC**, Price GD, Heinz MV, Nepal S, Pillai A, Campbell AT, Jacobson NC. The role of borderline personality disorder traits in predicting longitudinal variability of major depressive symptoms among a sample of depressed adults. *Journal of Affective Disorders*. 2024;363(15):492-500. doi: 10.1016/j.jad.2024.07.104.
20. *Nemesure MD, ***Collins AC**, Price GD, Griffin TZ, Pillai A, Nepal S, Heinz MV, Lekkas D, Campbell AT, Jacobson NC. Depressive symptoms as a heterogeneous and constantly evolving dynamical system: Idiographic depressive symptom networks of rapid symptom changes among persons with major depressive disorder. *Journal of Psychopathology and Clinical Science*. 2024;133(2):155–166. doi: 10.1037/abn0000884
21. *Nepal S, *Pillai A., Wang W, Griffin TZ, **Collins AC**, Heinz MV, Lekkas D, Mirjafari S, Nemesure MD, Price GD, Jacobson NC, Campbell AT. MoodCapture: Depression detection using in-the-wild smartphone images. *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems*. 2024; doi: 10.1145/3613904.3642680
22. *Pillai A, *Nepal S, Wang W, Nemesure MD, Heinz MV, Price GD, Lekkas D, **Collins AC**, Griffin TZ, Buck B, Preum SM, Cohen T, Jacobson NC, Ben-Zeev D, Campbell AT. Investigating generalizability of speech-based suicidal ideation detection using mobile phones. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*. 2024;7(4):174. doi: 10.1145/3631452
23. Price GD, Heinz MV, **Collins AC**, Jacobson NC. Detecting major depressive disorder presence and severity using passively-collected wearable movement data in a nationally-representative sample. *Psychiatry Research*. 2024;332:115693. doi: 10.1016/j.psychres.2023.115693
24. **Collins AC**, **Gallagher MR, Calafiore C, Jordan DG, Winer ES. From anxiety to depression: A longitudinal investigation into the role of anhedonia. *Journal of Affective Disorders*. 2025;380:17-25. doi: 10.1016/j.jad.2025.03.07
25. **Collins AC**, Lekkas D, Nemesure MD, Griffin TZ, Price GD, Pillai A, Nepal S, Heinz MV, Campbell AT, Jacobson NC. Semantic signals in self-reference: The detection and prediction of depressive symptoms from the daily diary entries of a sample with major depressive disorder. *Journal of Psychopathology and Clinical Science*. 2025.
26. ***Collins AC**, *Price GD, **Moreno VA, Mackin DM, **Oh JY, Heinz MV, Jacobson NC. (2025). A comparison of objective and subjective measures of physical activity, sedentary and sleep behaviors between persons with and without depressive symptoms. *Journal of Affective Disorders*. 2025;375:22-26. doi: 10.1016/j.jad.2025.01.092.
27. **Gallagher MR, **Collins AC**, Anduze SL, Winer ES. When effort pays off: An experimental investigation into action orientation and anxiety as buffering factors between anhedonia and reward motivation. *PLoS ONE*. 2025;20(3):e0320052. doi: 10.1371/journal.pone.0320052.
28. **Gallagher MR, **Collins AC**, Lekkas D, Nemesure MD, Griffin TZ, Price GD, Heinz MV, Pillai A, Nepal S, Mackin DM, Campbell AT, Winer ES, Jacobson NC. Anhedonia in flux: Understanding the

associations of emotion regulation and anxiety with anhedonia variability in a sample with major depressive disorder. *Journal of Affective Disorders*. 2025;372:27-36. doi: 10.1016/j.jad.2024.11.059

29. Lekkas D, **Collins AC**, Heinz MV, Griffin TZ, Pillai A, Nepal SK, Mackin DM, Campbell AT, Jacobson NC. Acute suicidal ideation in context: highlighting sentiment-based markers through the diary entries of a clinically depressed sample. *BMC Psychiatry*. 2025.
30. *Price GD, ***Collins AC**, Heinz MV, Mackin DM, Jacobson NC. Use of passively collected actigraphy data to detect individual depressive symptoms in a clinical subpopulation and general population. *Journal of Psychopathology and Clinical Science*. 2025;134(1):31-40. doi: 10.1037/abn0000933
31. Pillai A, Spathis D, Nepal S, **Collins AC**, Mackin DM, Heinz MV, Griffin TZ, Jacobson NC, Campbell AT. Beyond prompting: Time2Lang -- Bridging time-series foundation models and large language models for health sensing. *Proceedings of the AHLI Conference on Health, Inference, and Learning*. 2025; doi: 10.48550/arXiv.2502.07608

Thesis:

Collins (2023). Self-referential processing in depression: A systematic review and meta-analysis.

Manuscripts Submitted to Preprint Servers

1. Jordan DG, Salem T, Nadorff M, Gotlib IH, **Collins AC**, Lass ANS, Kilgore J, Dunaway MG, Winer ES. Examining the connectivity of anhedonia and reward devaluation in a network of behavioral tasks over time. *PsyArXiv*. 2024; doi: 10.31234/osf.io/hacvt
2. ***Collins AC**, *Lekkas D, *Heinz MV, **Annor J, **Ruan FY, Jacobson NC. ChatGPT as therapy: A qualitative and network-based thematic profiling of shared experiences, attitudes, and beliefs on Reddit. *PsyArXiv*. 2024; doi: 10.31219/osf.io/57q8x
3. **Haddox D, Mackin DM, Griffin TZ, Heinz MV, Nemesure MD, **Collins AC**, Price GD, Lekkas D, Pillai A, Nepal S, Campbell AT, Jacobson NC. Psychometric properties and validity of a Mobile Patient Health Questionnaire-9 (MPHQ-9) for ecological momentary assessment in depressed adults. *PsyArXiv*. 2024; doi: 10.31234/osf.io/rfvy5
4. Langener AM, Price GD, **Haddox D, Heinz MV, Mackin DM, Nemesure MD, **Collins AC**, Lekkas D, Griffin TZ, Pillai A, Nepal S, Campbell AT, Jacobson NC. Predicting weekly instability in depressive symptoms among individuals diagnosed with Depressive Disorder using deep learning and passively collected movement data. *PsyArXiv*. 2024; doi: 10.31234/osf.io/cj3wr
5. **Collins AC**, **Haddox D, Calafiore C, *Gallagher MR, Heinz MV, Lekkas D, Griffin TZ, Nemesure MD, Price GD, Nepal S, Pillai A, Mackin DM, Campbell AT, Winer ES, Jacobson NC. Digital biomarkers of avoidance and their relationship with depression and anxiety symptoms. *PsyArXiv*. 2025; doi: 10.31219/osf.io/v4wzr_v1
5. Daniel KE, Collins AC, Greene KL, Shaffer KM, Chow PI. Medical appointments are associated with same-day worry and sleep difficulties among cancer survivors. *PsyArXiv*. 2025; doi: 10.31234/osf.io/qw5bj_v1

Narrative Report

Introduction

I am the Director of Digital Phenotyping and Therapeutics Research at the Depression Clinical and Research Program at Massachusetts General Hospital, and I am a Member of the Faculty at Harvard Medical School. My research focuses on reward dysfunction as a transdiagnostic mechanism underlying the etiology and maintenance of psychopathology, including depression. I have two sub-areas of research: (1) the application of advanced statistical methods to predict changes in psychopathology and (2) the development and testing of both in-person and digital interventions. I bridge these two lines of research to understand *what interventions, focused on reward dysfunction, work best and for whom*.

Area of Excellence: Investigation

Although prior research has emphasized the impact of dysfunction within negative systems, my research has focused on how reward dysfunction can contribute to the development or maintenance of depressive symptoms (Gallagher, Collins, & Winer, 2022). Guided by reward devaluation theory, my research has shown that avoidance and devaluation of reward can longitudinally predict depression (Jordan, Collins, et al., 2021) and elements of reward dysfunction dynamically interact with depressive symptoms in three independent network analyses (Collins et al., 2021; Collins, Lass, & Winer, 2023; Lass et al., 2020). My research has also demonstrated through a series of meta-analyses that there are moderate to large effects in how depressed persons endorse and recall self-referential words, including differences between self- and other-referential positive words (Collins & Winer, 2023). These findings provide evidence that reward dysfunction may emerge when positivity is directed toward themselves *only* as depressed persons did not demonstrate this dysfunction when processing positive words about other persons. I have also investigated whether persons with reward dysfunction would engage in a positive affect treatment, and my findings suggest that these persons explicitly avoid this treatment that would work best for them (Bryant et al., 2022).

I utilize a multimodal approach, including self-reports, experimental paradigms, ecological momentary assessments (EMAs) and passive sensing, to investigate the dynamic and heterogeneous nature of psychopathology. I have extensive experience with longitudinal data analysis, including multilevel and time-varying vector autoregressive modeling and machine learning. I have applied these to investigate how depression dynamically changes over time and how other behaviors or psychopathology symptoms impact depression. Moreover, I have a specific interest in understanding how reward dysfunction changes over time and can influence the course, severity, and treatment of psychopathology.

I have also developed a digital intervention, alongside persons with lived experiences, to target anhedonia in co-occurring depression and cannabis use (Collins et al., 2024a), and my NIDA-funded K23 is investigating the preliminary of this intervention in a randomized clinical trial. I utilize advanced methods (e.g., machine learning) to predict *who* would benefit the most from a given treatment to triage them and optimize treatment match (Collins et al., 2024b). To date, I have published 31 peer-reviewed publications (14 first-authored), with several in high-impact journals, including *Journal of Psychopathology and Clinical Science* (IF: 7.8) and *Clinical Psychological Science* (IF: 7.2).

Teaching and Mentorship

I am deeply passionate about teaching and providing mentorship. I strive to create inclusive, supportive, and engaging learning environments for all my students and mentees. During my time at Mississippi State University, I was instructor of record for two courses: General Psychology in Fall 2020 and Abnormal Psychology in Fall 2021 and Spring 2022, with overall positive qualitative evaluations and a median rating of 4/4 in each semester. I also have mentored dozens of trainees across Mississippi State University and Dartmouth College, many of whom have been successful in securing post-graduate career plans, including offers to medical school, PhD programs, and master's programs. Moreover, with my support and guidance, several of my mentees have successfully obtained research fellowships and travel awards. Lastly, I have worked alongside mentees to help them become first- or co-authors on papers and conference presentations.