



Role: Principal Investigator (**\$102,000** plus 3 years of tuition)

**University of Pennsylvania**, Benjamin Franklin Fellowship (**\$300,000**) 2017, 2021 – 22

**University of Pennsylvania**, Graduate Research & Travel Awards (total **\$3,717**) 2018 – 2022

## HONORS AND AWARDS

---

**Society for Research in Psychopathology** 2022  
Smadar Levin Award preliminary finalist (*for the most outstanding submission from a graduate student*)

**Barnard College, Columbia University** 2015  
Phi Beta Kappa, Mary E. Allison Prize (*for academic excellence*), Psychology Faculty Recognition Prize

## RESEARCH INTERESTS

---

- Using artificial intelligence, large language models, and natural language processing to assess and treat mental disorders
- Cognitive and behavioral processes in psychopathology (e.g., worry, rumination, behavioral anxiety)
- Diagnosis and classification of the emotional disorders; validity of transdiagnostic and dimensional approaches

## PUBLICATIONS

---

**Stade, E. C.**, Eichstaedt, J. E., Kaysen, D. L., Salesha, A., Greenberger, A., Singhvi, S., Wiltsey Stirman, S. (2025). TherapyTrainer: Using AI to train therapists in written exposure therapy. *Cognitive and Behavioral Practice*. Advance online publication. <https://doi.org/10.1016/j.cbpra.2025.06.005>

Held, P., **Stade, E. C.**, & Dondanville, K. (2025). Generative artificial intelligence in posttraumatic stress disorder treatment: Exploring five different use cases. *Journal of Traumatic Stress*, Advance online publication. <https://doi.org/10.1002/jts.23188>

**Stade, E. C.**, Eichstaedt, J. E., Kim, J. P., Wiltsey Stirman, S. (2025). Readiness evaluation for artificial intelligence-mental health deployment and implementation (READI): A review and proposed framework. *Technology, Mind, and Behavior*. 6(2). <https://doi.org/10.1037/tmb0000163>

\*Shani, C., & **Stade, E. C.**, (2025). Measuring mental health variables in computational research: Toward validated, dimensional, and transdiagnostic approaches. *Proceedings of the 10th*

*Workshop on Computational Linguistics and Clinical Psychology (CLPsych 2025).*  
<https://aclanthology.org/2025.clpsych-1.6/>

- Stephenson, A. R., **Stade, E. C.**, & Ruscio, A. M. (2025). Measuring behavioral responses to a social stressor: Does the Social Performance Rating Scale have utility beyond social anxiety disorder? *Behaviour Research and Therapy*. 186. <https://doi.org/10.1016/j.brat.2025.104700>
- Stade, E. C.**, Wiltsey Stirman, S., Ungar, L., Schwartz, H. A., Yaden, D. B., Sedoc, J., DeRubeis, R. J., Willer, R., Eichstaedt, J. E. (2024). Large language models could change the future of behavioral healthcare: a proposal for responsible development and evaluation. *npj Mental Health Research*. 3. <https://doi.org/10.1038/s44184-024-00056-z>
- Rai, S., **Stade, E. C.**, Giorgi, S., Francisco, A., Ungar, L., Curtis, B., (2024). Key language markers of depression depend on race. *Proceedings of the National Academy of Sciences*. 121(14). <https://doi.org/10.1073/pnas.2319837121>
- Stade, E. C.**, DeRubeis, R. J., Ungar, L., & Ruscio, A. M. (2023). A transdiagnostic, dimensional classification of anxiety shows improved parsimony and predictive noninferiority to *DSM*. *Journal of Psychopathology and Clinical Science*. 132(8), 937-948. <https://doi.org/10.1037/abn0000863>
- Stade, E. C.**, Ungar, L., Eichstaedt, J. C., Sherman, G., Ruscio, A. M. (2023). Depression and anxiety have distinct and overlapping language patterns: Results from a clinical interview. *Journal of Psychopathology and Clinical Science*. 132(8), 972–983. <https://doi.org/10.1037/abn0000850>
- Stade, E. C.**, Ungar, L., Havaldar, S., Ruscio, A. M. (2023). Perseverative thinking is associated with features of spoken language. *Behaviour Research and Therapy*. 165. <https://doi.org/10.1016/j.brat.2023.104307>
- Stade, E. C.**, & Ruscio, A. M. (2022). A meta-analysis of the relationship between worry and rumination. *Clinical Psychological Science*. 11(3), 552-573. <https://doi.org/10.1177/21677026221131309>
- Stade, E. C.**, Cohen, R., Loftus, P., & Ruscio, A. M. (2022). A novel measure of real-time perseverative thought. *Clinical Psychological Science*. 10(3), 534–552. <https://doi.org/10.1177/21677026211038017>
- Costi, S., Soleimani, L., Glasgow, A., Brallier, J., Spivack, J., Schwartz, J., Levitch C. F., Richards, S., Hoch, M., **Stade, E. C.**, Welch, A., Collins, K. A., Feder, A., Iosifescu, D. V., Charney, D. S., & Murrough, J. W. (2019). Lithium continuation therapy following ketamine in patients with treatment resistant unipolar depression: A randomized controlled trial. *Neuropsychopharmacology*, 44, 1812–1819. <https://doi.org/10.1038/s41386-019-0365-0>
- Murrough, J. W., **Stade, E. C.**, Sayed, S., Ahle, G., Kiraly, D. D., Welch, A., Collins, K. A., Soleimani, L., Iosifescu, D. V., & Charney, D. S. (2017). Dextromethorphan/quinidine pharmacotherapy in patients with treatment resistant depression: A proof of concept clinical trial. *Journal of Affective Disorders*, 218, 277-283. <https://doi.org/10.1016/j.jad.2017.04.072>

**Stade, E. C., & Iosifescu, D.V.** (2016). Using electroencephalography for treatment guidance in major depressive disorder. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 1(5), 411-422. <https://doi.org/10.1016/j.bpsc.2016.06.002>

## PRESENTATIONS

---

Sarma, K., Hanns, K., Feusner, J., Arevian, A. & **Stade, E. C.** (2024, December). Responsible applications of large language models to psychotherapy. In N. Obradovich & S. Khalsa (Chairs), *Innovations in Digital Mental Health: From AI-Driven Therapy to App-Enhanced Interventions*, Symposium presented at the Technology in Psychiatry Summit at the annual meeting of the American College of Neuropsychopharmacology, Phoenix, AZ.

Held, P., Dondanville, K. Wiltsey-Stirman, S., & **Stade, E. C.** (2024, September). Using generative AI for PTSD homework help and fidelity coding. In P. Held (Chair), *Generative Artificial Intelligence in PTSD Treatment: Exploring Different Use Cases*. Symposium presented at the annual meeting of the International Society for Traumatic Stress Studies, Boston, MA.

Friedman, J., **Stade, E. C.**, & Ruscio, A. M. (2022, November). *Worry and rumination differ in their prediction of generalized anxiety disorder and major depressive disorder*. Poster presented at the Annual Meeting of the Association for Behavioral and Cognitive Therapies, New York, NY.

**Stade, E. C.**, Ungar, L., & Ruscio, A. M. (2022, September). *A language-based model of perseverative thinking*. Poster and flash talk presented at the Society for Research on Psychopathology Annual Meeting, Philadelphia, PA.

Stephenson, A., **Stade, E. C.**, & Ruscio, A. M. (2021, November). *Measuring behavioral reactions to social stress in generalized anxiety disorder and major depressive disorder*. Poster presented at the Annual Meeting of the Association for Behavioral and Cognitive Therapies, New Orleans, LA.

Stephenson, A., **Stade, E. C.**, & Ruscio, A. M. (2020, November). *Relationship of reward responsiveness to severity and course features of major depressive disorder*. Poster presented at the Annual Meeting of the Association for Behavioral and Cognitive Therapies, Philadelphia, PA.

**Stade, E. C.**, Loftus, P., Cohen, R., & Ruscio, A. M. (2019, March). *A novel measure of real-time perseverative thought*. Poster presented at the Annual Meeting of the Anxiety and Depression Association of America, Chicago, IL.

Murrough, J. W., **Stade, E. C.**, Sayed, S., Ahle, G., Kiraly, D. D., Welch, A., Collins, K. A., Soleimani, L., Iosifescu, D. V., & Charney, D. S. (2016, December). *Dextromethorphan/quinidine combination as a novel pharmacotherapeutic approach in patients with treatment resistant depression*. Poster presentation at American College of Neuropsychopharmacology, Hollywood, FL.

**Stade, E. C.**, Aull, A., Ruyter-Harcourt, I., Rosenberg, M., Garduño, O., Banning, T., Liu, S., Shapiro, L., Sehayik, T., Levenson, L., Hong, K. E., & Heuer, L. (2014, March). *Deservingness beliefs as a moderator of procedural fairness in police-civilian encounters*. Poster presentation at the

annual meeting of the Eastern Psychological Association, Boston, MA.

Jackson, M., Ruyter-Harcourt, I., Stiller, M., Kassan, M., Davids, M., **Stade, E. C.**, & Heuer, L. (2013, March). *Deservingness and status as moderators of procedural fairness*. Poster presentation at the annual meeting of the Eastern Psychological Association, New York, NY.

## **INVITED TALKS**

---

**Stade, E. C. & Wiltsey-Stirman, S.** (2025, May). Association for Behavioral and Cognitive Therapies Continuing Education Series (remote).

Obradovich, N., Paulus, M., Ajilore, O., Perlis, R., Sarma, K. V., **Stade, E. C.** (2025, June). OpenAI Forum (remote).

**Stade, E. C.**, (2025, April). Guest lecture: Palo Alto University and Stanford University PsyD Consortium, Critical Issues in Clinical Psychology, Palo Alto, CA.

**Stade, E. C.** (2025, February). Yale University Cross-Cultural Consortium on Irritability (remote).

**Stade, E. C. & Wiltsey-Stirman, S.** (2025, May). Veterans Affairs Palo Alto Health Care System Psychology Resident Seminar Series (remote).

**Stade, E. C.**, (2024, December). University of California, San Diego, Psychiatry Department, Lab of Dr. Sonya Norman (remote).

**Stade, E. C.**, & Eichstaedt, J. E. (2024, December). Mental Health America Board of Directors Meeting, Washington, DC (remote).

**Stade, E. C.**, (2024, November). Princeton University, Psychology Department, Logic of Emotion Lab (PI: Erik Nook) (remote).

**Stade, E. C.**, (2024, January). National Center for PTSD, Tech into Care Lecture Series (remote).

**Stade, E. C.**, (2023, December). Stanford University, Psychology Department, Cognitive Tools Lab (PI: Judith Fan). Stanford, CA.

**Stade, E. C.**, (2023, October). California State University, Northridge, Honors Program Interdisciplinary Lecture Series, (remote).

**Stade, E. C.**, (2023, October). Stanford University, Psychology Department, Affective Sciences Seminar Series, Stanford, CA.

**Stade, E. C.**, (2023, June). National Center for PTSD, All Staff Meeting (remote).

**Stade, E. C.**, (2023, June). Guest Lecture, Palo Alto University and Stanford University PsyD Consortium, Critical Issues in Clinical Psychology, Palo Alto, CA.

## **POLICY BRIEFS**

---

**Stade E. C.**, Wiltsey Stirman, S, Ungar, L., Schwartz, H. A., Yaden, D., Sedoc, J., DeRubeis, R., Willer, R., Kim, J. P., & Eichstaedt, J. C. (2024). [Toward Responsible Development and Evaluation of LLMs in Psychotherapy](#). Policy Brief Series, Institute for Human-Centered AI, Stanford, CA.

## **TEACHING**

---

### **University of Pennsylvania**

Abnormal Psychology (TA) 2019

Introduction to Psychology (TA/Recitation Leader) 2018

### **Barnard College**

Statistics (Undergraduate TA) 2015

## **PROFESSIONAL SERVICE**

---

### **Executive Guest Editor:**

*Cognitive and Behavioral Practice (special issue on AI and CBT, forthcoming)*

### **Ad Hoc Reviewer:**

*American Psychologist*

*Association for Computing Machinery Computer Human Interaction (ACM CHI)*

*Emotion*

*Journal of Consulting and Clinical Psychology*

*Journal of Experimental Psychopathology*

*Journal of Psychopathology and Clinical Science*

*npj Digital Health*

*Nature Communications*

### **University of Pennsylvania**

Student Representative to the Clinical Faculty 2021 – 2022

Clinical Program Student Seminar Leader 2019 – 2020

## **CLINICAL EXPERIENCE**

---

### **Veterans Affairs Palo Alto Health Care System**

**Psychology Intern** 2022 – 2023

Clinical Rotations: Women's Health; Addiction Consultation & Treatment; Inpatient Psychiatry

Research Rotation: National Center for PTSD (PI: Shannon Wiltsey Stirman)

Interventions: Cognitive processing therapy (CPT); prolonged exposure (PE); acceptance and commitment therapy (ACT); cognitive behavioral therapy for chronic pain

**University of Pennsylvania**

**Psychotherapy Extern, *Steven A. Cohen Military Family Clinic*** 2021 – 2022  
Interventions: CPT; ACT

**Study Diagnostician/Clinical Interviewer, *Boundaries of Anxiety and Depression Lab*** 2017 – 2022  
Assessments: Anxiety and Related Disorders Interview Schedule for *DSM-5* (ADIS-5L); Hamilton Depression Rating Scale (HAM-D), Hamilton Anxiety Rating Scale (HAM-A)

**Psychotherapy Extern, *Center for the Treatment and Study of Anxiety*** 2020 – 2021  
Interventions: PE, exposure and response prevention (EXRP/ERP) for OCD, and exposure-based CBT for anxiety disorders

**Psychotherapy Extern, *Penn Cognitive Therapy Training Clinic*** 2019 – 2020  
Interventions: CBT for depression; CBT for insomnia

**Study Psychotherapist, *Sleep Neurobiology and Psychopathology Lab*** 2019 – 2020  
Interventions: CBT for insomnia

**Diagnosis & Assessment Extern, *Assessment Clinic*** 2018 – 2019  
Assessments: Wechsler Adult Intelligence Scale (WAIS-IV); Minnesota Multiphasic Personality Inventory-2 (MMPI-2); Diagnostic Interview for Anxiety, Mood, and OCD and Related Neuropsychiatric Disorders (DIAMOND); Structured Clinical Interview for *DSM-IV* Axis II Disorders (SCID-II)

**Icahn School of Medicine at Mount Sinai**

**Study Diagnostician/Clinical Interviewer, *Depression and Anxiety Center*** 2015 – 2017  
Assessments: Structured Clinical Interview for DSM-IV (SCID-IV); Montgomery-Asberg Depression Rating Scale (MADRS)

**Mount Sinai Saint Luke's and Roosevelt Hospitals**

**Sexual Assault/Domestic Violence Crisis Counselor, *Crime Victims Treatment Center*** 2012 – 2015

**CERTIFICATIONS**

---

**University of Pennsylvania, *Center for the Treatment and Study of Anxiety (CTSA)***

Certified Prolonged Exposure Therapist 2021  
Certified Exposure and Response Prevention Therapist 2021

**New York State Department of Health**

Certified Rape Crisis Counselor 2013

## SELECTED MEDIA COVERAGE

---

CBC. <a href="#"><i>AI and Therapy.</i></a>	2025
Guardian. <a href="#"><i>Can AI therapists do better than the real thing?</i></a>	2025
Forbes. <a href="#"><i>Stanford Initiative Leverages AI To Robustly Transform Mental Health Research and Therapy.</i></a>	2025
WebMD. <a href="#"><i>The Real Risks of Turning to AI for Therapy.</i></a>	2025
Vox. <a href="#"><i>Chatbot therapy is risky. It's also not useless.</i></a>	2023
KQED. <a href="#"><i>How AI Could Transform Mental Health Care.</i></a>	2023