

# CLAUDIA R. BECKER

claudiabecker@tamu.edu

## EDUCATION

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### Texas A & M University

*Ph.D. in Clinical Psychology*

- GPA: 4.0/4.0
- Mentors: Annmarie MacNamara, PhD and Israel Liberzon, MD

College Station, TX

*Current*

### Davidson College

*Bachelor of Science in Psychology; Minor in English*

- Psychology GPA: 3.8/4.0, Overall GPA: 3.769/4.000
- Magna Cum Laude

Davidson, NC

*August 2016-May 2020*

### Syracuse University Madrid

*Intensive Spanish Language and Culture Program*

Madrid, Spain

*May-June 2018*

## PUBLICATIONS

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**Becker, C. R.,** Taylor, J. J., Brown, J.C., Steiner, S. J., & Siddiqi, S. H. (2023). Differential response to H-Coil repetitive transcranial magnetic stimulation before versus after the first COVID-19 shutdown. *Brain stimulation*, 16(3), 901-903.

<https://doi.org/10.1016/j.brs.2023.05.019>

## BOOK CHAPTERS

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**Becker, C. R.,** & Milad, M.R. (2023). Contemporary approaches towards neuromodulation of fear extinction and its underlying neural circuits. In: Current Topics in Behavioral Neuroscience, *Fear Extinction Mechanisms*. Springer, Berlin, Heidelberg.

[https://doi.org/10.1007/7854\\_2023\\_442](https://doi.org/10.1007/7854_2023_442)

## PRESENTATIONS

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Taylor J. J., Li J., Lin, C. Jones E., Frandsen S., **Becker, C. R.,** Haj-Darwish D., Drew W., Leach J., Jabbour S., Palm S., Pattin M., Sanderson L., Santos E., Fox M.D., Siddiqi S. H. (In review). *Symptom Specific TMS Targets for Depression and Anxiety: A Randomized, Controlled Trial*. [Conference symposium]. 2024 Society of Biological Psychiatry Annual Meeting, Austin, TX, United States.

Sheel, B., Sheynin, J., **Becker, C. R.,** Vogt, G., Nickelsen, T., Lokshina, Y., Ahrari, S., Abelson, J. L., Liberzon, I. (2023, October 13). *Altered Spatial Navigation in Posttraumatic Stress Disorder* [Conference presentation]. Texas A & M Psychological and Brain Sciences 2<sup>nd</sup> Year Poster Session, College Station, TX, United States.

**Becker, C. R.,** Taylor, J. J., & Siddiqi S. H. (2022, April 28-30). *Seasonal Patterns in H-1 coil repetitive Transcranial Magnetic Stimulation Response* [Conference presentation]. 2022 Society of Biological Psychiatry Annual Meeting, New Orleans, LA, United States.

## RESEARCH EXPERIENCE

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### **New York University Grossman School of Medicine Behavioral Neuroscience Program**

**New York, NY**

*Clinical Research Coordinator*

*July 2022-May 2023*

#### *Projects:*

- NIMH 5 R01 MH123736-02: Neural correlates of active avoidance learning and their interactions with fear extinction mechanisms in PTSD patients
- NIMH 5 R33 MH11907-03: Identifying neural mechanisms of PTSD symptom reduction influenced by combined estrogen and prolonged exposure therapy
- NIMH 5 R01 MH125198-02: Neuromodulation of the fear extinction circuit using temporally and anatomically specific transcranial magnetic stimulation (TMS) in humans
- NCCIH: 5 R01 AT011257-02: Elucidating neural mechanisms and sex differences in response to mindfulness based stress reduction in generalized anxiety disorder

#### *Duties:*

- Coordinated recruitment, screening, scheduling, and data collection on a large-scale NIMH-funded research trial studying fear extinction learning (n= 250)
- Organized and submitted study data bi-annually to the National Institute of Mental Health (NIMH) Data Archive
- Collected and quality checked skin conductance response (SCR) to a fear extinction learning task using Acqknowledge
- Ran fMRI scans independent of a technician (57 scans completed as of 11/21/22)
- Utilized neuronavigation software—Brainsight and Visor2—to locate brain regions on fMRI scans for stimulation with neuromodulation
- Engaged weekly in lab meetings and troubleshoot bottlenecks for ongoing research trials

*Supervisor: Mohammed R. Milad, PhD*

### **Brigham and Women's Hospital, Harvard Medical School Center for Brain Circuit Therapeutics**

**Boston, MA**

*Lead Transcranial Magnetic Stimulation (TMS) Technician*

*September 2020-June 2022*

#### *Projects:*

- NIMH 7 R01 MH113929-05: Using human brain connectivity to identify the casual neuroanatomical substrate of depression symptoms
- NIMH 1 R21 MH126271-01: Targeted modulation of symptom-specific brain circuits with transcranial magnetic stimulation

#### *Duties:*

- Built and maintained a large-scale REDcap data registry for the center's research and clinical data
- Drafted and submitted an Institutional Review Board (IRB) application for approval of a TMS data registry
- Created standard operating procedures and training videos for data entry, neuronavigation, and robotic and manual TMS
- Maintained regulatory and IRB documentation for clinical research trial
- Recruited and scheduled participants for clinical research trial
- Administered neuropsychiatric tests to research participants with major depressive disorder (MDD), post-traumatic stress disorder (PTSD), generalized anxiety disorder (GAD), panic disorder, obsessive compulsive disorder (OCD), and other comorbid

conditions

- Met weekly with study team to evaluate progress and brainstorm for recruitment
- Processed neuroimaging data and marked participants' stimulation site coordinates onto their MRI scans using neuro-navigation and loaded coordinates into an MNI space to compare treatment sites between subjects

*Supervisors: Michael D. Fox, MD, PhD, Joseph J. Taylor, MD, PhD, and Shan H. Siddiqi, MD*

**University of Pennsylvania**  
**Children's Healthcare is a Legal Duty (CHILD USA)**

**Philadelphia, PA**

*Research Assistant*

*June-August 2019*

*Projects:*

- CHILD USA (2022). *"I believe competitive gymnastics and other elite sports break children." A Case-Study of Systematic Abuse in Sports Perpetrated by Larry Nassar.*

*Duties:*

- Collaborated on the "Game Over: Commission to Protect Youth Athletes," creating a database for a published case study on sexual abuse within elite sports
- Created a discussion guide for parents to identify trauma symptoms in their children which was administered nationally during educational viewings of the documentary, "At the Heart of Gold"
- Worked with a team to create a published toolkit for survivors of sexual abuse wishing to file civil suits
- Evaluated protective policies established by youth athletic organizations and created a detailed report

*Supervisor: Marci Hamilton, MA, JD*

**Davidson College**  
*Undergraduate Student*

**Davidson, NC**  
*August 2018-May 2020*

*Advanced Research Coursework:*

- Recruited and consented undergraduate students for a research study investigating the impact of the Picture Superiority Effect on working memory
- Worked with a team to create an experimental design to study cultural themes in advertisements
- Conducted a literature review on the impact of multiple concussions' on long-term memory
- Drafted a literature review and project proposal to investigate the influence of cultural norms on recreational drug use

*Supervisors: Kristi Multhaup, PhD and Phia Salter, PhD*

## **CLINICAL EXPERIENCE**

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**New York University Grossman School of Medicine**  
*Clinical Research Coordinator*

**New York, NY**  
*July 2022-Current*

- Administered standardized psychiatric assessments (Structured Clinical Interview for DSM-5 (SCID-5), Clinician Administered Post-Traumatic Stress Disorder Scale (CAPS-

5), and Columbia-Suicide Severity Rating Scale (C-SSRS)) to determine adult participants' eligibility

- Interviewed participants with PTSD, GAD, MDD, and participants without psychiatric symptoms via phone to determine initial eligibility (74 phone screens administered as of 11/21/22)
- Engaged in weekly supervision with the lead study clinician
- Consented individuals participating in research trials

*Supervisors: Mohammed R. Milad, PhD and B. Isabel Moallem, PhD*

**Brigham and Women's Hospital, Harvard Medical School**

**Boston, MA**

*Lead Transcranial Magnetic Stimulation (TMS) Technician*

*September 2020-June 2022*

- Led a team of 8 individuals in administering TMS to adult patients with treatment-resistant major depressive disorder (MDD) and various other comorbidities
- Conducted daily TMS treatments and weekly motor threshold assessments for up to 13 patients with treatment-resistant depression (TRD) a day (over 1,500 TMS treatments delivered, and over 60 patients treated for seven weeks at a time)
- Trained and coordinated individuals of varying educational backgrounds—MDs, fellows, residents, research assistants, and undergraduates—in safely and effectively administering TMS (over 200 training sessions led)
- Led weekly TMS rounds to update billing physicians on patient and clinic progress and evaluate current service
- Introduced Trauma Informed Care (TIC) into our clinical service

*Supervisors: Michael D. Fox, MD, PhD and Joseph J. Taylor, MD, PhD*

**Serenity House: A Comfort Care Home**

**Mooreville, NC**

*Hospice Volunteer*

*August 2018-May 2019*

- Administered medication and tended to hospice patients' daily needs—such as bathing—for four hours every week
- Demonstrated interpersonal skills and compassion by consoling family members through the bereavement process

**TEACHING AND MENTORSHIP**

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**Project SHORT**

**Virtual**

*Mentor*

*September 2023-Current*

- Aid underrepresented predoctoral students in graduate school application process
- Provide feedback on personal statements and CVs and conduct mock interviews

**Texas A & M Graduate Admissions Committee**

**College Station, TX**

*Member*

*December 2023-Current*

- Work with a team to coordinate prospective graduate students' interview experience

**Texas A & M University**

**College Station, TX**

**Multimethod Affect and Cognition Laboratory**

*Graduate Research Assistant and Supervisor*

*August 2023-Current*

- Provide mentorship to a group of undergraduate research assistants in the laboratory

- Supervise bi-yearly undergraduate research presentations and provide feedback

**Texas A & M Teaching Scholars Program**

*Graduate Student Interviewee*

**College Station, TX**

*September, 2023*

- Participate in interview published on a virtual library to guide undergraduate students on graduate school applications and career development

**SKILLS**

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**Certifications:** TMS Technician, fMRI operator, CITI training, seizure safety training, NYU Clinical Research Program

**Languages:** Conversational in Spanish

**Software:** BrainVision Analyzer, SPSS, R, JASP, Brainsight TMS Neuronavigation, Localite TMS Neuronavigation, Visor2 TMS Neuronavigation, REDcap with Clinical Data Pull (CDP) and Clinical Data Mart (CDM), Visage Imaging, EPIC, Trialmaster, Qualtrics, Superlab, Snap! Computer Programming, Matlab, MRICron, Acqknowledge, PsychoPy

**Hardware:** Siemens fMRI 3T, EEG, Axilum TMS Cobot, Magventure TMS MagPro, MagStim TMS Systems

**Assessments:** SCID-5, CAPS-5, CSSRS, MINI

**AWARDS AND HONORS**

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Magna Cum Laude (2020)

IWLCA Academic Honor Roll (2020)

Psi Chi Honors Society (2019-2020)

Division I Athletic Scholarship Recipient (2016-2020)

A-10 Commissioners Honor Roll (2016-2020)