

SAREN H. SEELEY, M.A.

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CONTACT INFORMATION

Department of Psychology
University of Arizona
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EDUCATION

2016 – 2021 (<i>expected</i>)	Doctor of Philosophy, Clinical Psychology (in progress) University of Arizona (UA), Tucson, AZ <i>Dissertation: Dynamic Functional Connectivity as a Neurobiological Mechanism of Adaptation in Widowed Older Adults</i>	4.0 GPA
2015 – 2016	Master of Arts, Psychology University of Arizona, Tucson, AZ <i>Thesis: Functional Neuroanatomy of Grief and Perceived Discrimination in South Asian Women in the United States</i>	4.0 GPA
2009 – 2013	Bachelor of Arts, Psychology Hunter College of the City University of New York, New York, NY <i>Thesis: Anxious, Not Depressive Symptoms Predict Heart Rate Variability in Generalized Anxiety Disorder</i> Magna cum laude, Honors in Psychology	3.8 GPA

HONORS and AWARDS

2019	Data Science Ambassador	UA College of Science
2019	Clinical Science Student Training Award	Academy of Psychological Clinical Science
2019	Galileo Scholar Award	UA College of Science
2019	Selected to attend Neurohackademy 2019	University of Washington eScience Institute
2017	Science Alliance Leadership Training Program Fellow	New York Academy of Sciences
2017	NSF GRFP (Honorable Mention)	National Science Foundation
2015	Student Poster Award	Society for Psychophysiological Research
2015	Student Travel Award	Society for Psychophysiological Research
2015	GPSC Travel Award	UA Graduate and Professional Student Council
2013	Undergraduate Research Initiative Fellowship	CUNY Hunter College

RESEARCH SUPPORT

2019	PI	Ruth L. Kirschstein NRSA Individual Predoctoral Fellowship (1F31AG062067) National Institute on Aging	\$45,016
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GRADUATE RESEARCH EXPERIENCE

08/15 – present	Grief, Loss, and Social Stress Lab <i>Graduate Researcher</i>
PI:	Mary-Frances O'Connor, PhD (University of Arizona)
Duties:	<ul style="list-style-type: none">• Study coordinator for fMRI investigation of intranasal oxytocin and complicated grief.• Coordinated and ran fMRI sessions with older bereaved adults.• Preprocessed, analyzed, and wrote up multiple fMRI datasets.• Initiated adoption of Brain Imaging Data Structure for fMRI data management.• Initiated adoption of new QC and preprocessing methods (e.g., MRIQC; fMRIPrep).• Write data cleaning scripts.• Data analysis in R.• Manuscript preparation and literature review.• Present research at national conferences.• Maintain lab website.• Manage IRB application materials.• Mentorship:<ul style="list-style-type: none">- One UA Undergraduate Research Opportunities Consortium summer RA.- One post-baccalaureate RA.

05/2016 – present	Regulation of Emotions in Anxiety and Depression Lab <i>Alumnus collaborator</i>
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PIs: Douglas S. Mennin (Columbia University), David M. Fresco (Kent State University)
Duties:

- Analyze and write up behavioral and fMRI datasets from generalized anxiety disorder psychotherapy trial.
- Collaborate with research team members on other manuscripts from parent study.

UNDERGRADUATE/POST-BACCALAUREATE RESEARCH EXPERIENCE

06/13 – 07/15 Regulation of Emotions in Anxiety and Depression Lab, CUNY Hunter College

Senior Research Assistant/fMRI Coordinator

PI: Douglas S. Mennin, PhD

Duties:

- Administered approximately 20 SCID-IV-TR interviews to patients for clinical trial.
- Participated in weekly group supervision/interrater reliability meetings.
- Developed lab procedures and documentation for psychophysiological data processing.
- Trained RAs on psychophysiological data acquisition and cleaning.
- Trained RAs on clinical interviewing using the SCID-IV-TR.
- Coordinated and ran fMRI sessions with generalized anxiety disorder patients.
- Developed procedures and documentation for fMRI data acquisition and management.
- Edited E-Prime tasks.
- Manuscript preparation, literature review, and data analysis (in SPSS).
- Assisted PI with grant writing and peer reviews.
- Maintained lab websites.
- Presented research at national conferences.
- Co-mentorship (with graduate student):
 - Two undergraduate honors thesis students.
 - One McNair scholar/honors thesis student.

09/14 – 12/14 Hoyt Stress and Coping Lab, CUNY Hunter College

Research Assistant, New York, NY

PI: Michael A. Hoyt, PhD

Duties:

- Trained undergraduate RAs on psychophysiological data collection and cleaning.
- Improved lab procedures and documentation for psychophysiological data processing.
- Provided written and verbal feedback to Masters student using psychophysiological data in thesis.
- Manuscript preparation and data analysis.

03/12 – 05/13 Regulation of Emotions in Anxiety and Depression Lab, CUNY Hunter College

Undergraduate Research Assistant, New York, NY

PI: Douglas S. Mennin, PhD

Duties:

- Completed undergraduate honors thesis.
- Transcribed qualitative data.
- Collected and processed EEG and peripheral psychophysiological data.
- Data analysis in SPSS.

PUBLICATIONS

1. Scult, M.A., Fresco, D.M., Gunning, F.M., Liston, C., **Seeley, S.H.**, Garcia, E. & Mennin, D.S. (In press). Changes in functional connectivity following treatment with Emotion Regulation Therapy. *Frontiers in Behavioral Neuroscience*.
2. **Seeley, S.H.**, Chou, Y.-H., & O'Connor, M.-F. (2018). Intranasal oxytocin and *OXTR* genotype effects on resting state functional connectivity: A systematic review. *Neuroscience and Biobehavioral Reviews*, 1-17. doi:10.1016/j.neubiorev.2018.09.011
3. Renna, M.E., **Seeley, S.H.**, Heimberg, R.G., Etkin, A., Fresco, D.M., Mennin, D.S. (2017). Increased attention regulation from Emotion Regulation Therapy for generalized anxiety disorder. *Cognitive Therapy and Research*, 42(2), 121-134. doi:10.1007/s10608-017-9872-7
4. Renna, M.E., Chin, S., **Seeley, S.H.**, Fresco, D.M., Heimberg, R.G., & Mennin, D.S. (2017). The use of the mirror tracing persistence task as a measure of distress tolerance in generalized anxiety disorder. *Journal of Rational Emotive & Cognitive-Behavior Therapy*, 36(1), 80-88. doi:10.1007/s10942-017-0274-2
5. Fresco, D.M., Roy, A.K., Adelsberg, S., **Seeley, S.H.**, García-Lesy, E., Liston, C. & Mennin, D.S. (2017). Distinct functional connectivities predict clinical response with Emotion Regulation Therapy. *Frontiers in Human Neuroscience*, 11, 1-13. doi:10.3389/fnhum.2017.00086
6. **Seeley, S.H.**, Yanez, B., Stanton, A.L. & Hoyt, M.A. (2017). Emotional approach and heart rate variability following an emotional processing intervention. *Cognition and Emotion* 31(5), 988-994. doi:10.1080/02699931.2016.1170667

7. **Seeley, S.H.**, Mennin, D.S., Aldao, A., McLaughlin, K.A., Rottenberg, J., & Fresco, D.M. (2015). Impact of comorbid depression on subjective and physiological responses to emotion in generalized anxiety disorder. *Cognitive Therapy and Research*, 1-14. doi:10.1007/s10608-015-9744-y
8. **Seeley, S.H.**, García, E., & Mennin, D.S. (2015). Recent advances in laboratory assessment of emotion regulation. *Current Opinion in Psychology*, 3, 58-63. doi:10.1016/j.copsyc.2015.02.009

MANUSCRIPTS SUBMITTED/IN PREPARATION

Manuscripts Submitted for Publication

1. Arizmendi, B.J., **Seeley, S.H.**, Allen, J.J.B., Killgore, W.D.S., Andrews-Hanna, J. & O'Connor, M.F. Feeling a pull to be close: The effect of oxytocin on approach and avoidance in complicated grief. *Manuscript under review*.
2. Knowles, L.M., **Seeley, S.H.**, & O'Connor, M.-F. Morbidity following spousal bereavement is associated with depression, not prolonged grief disorder. *Manuscript under review*.
3. Raab, H.A., Sandman, C.S, **Seeley, S.H.**, Garcia, E., Liston, C., Fresco, D.M., & Mennin, D.S. Greater prefrontal recruitment associated with clinical improvement and regulatory skills in generalized anxiety patients following Emotion Regulation Therapy: A pilot investigation. *Revise and resubmit*.
4. O'Connor, M.-F. & **Seeley, S.H.** Neurobiology of Complicated Grief. In J.W. Ellor & H.W. Harris (Eds.) Macmillan Encyclopedia of Death and Dying. Macmillan Reference, USA. *Book chapter under review*.

Manuscripts in Preparation

1. **Seeley, S.H.**, García, E., Etkin, A., Liston, C., Fresco, D.M., & Mennin, D.S. Decreased salience and frontoparietal region reactivity to emotional conflict is associated with improved attention regulation in Emotion Regulation Therapy for generalized anxiety disorder. *Manuscript in preparation*.

PRESENTATIONS

National conference presentations:

* indicates mentored student.

1. Fresco, D. M., Roy, A. K., Adelsberg, S., **Seeley, S.H.**, Garcia, E., Liston, C., Mennin, D. S. (2017, November). Distinct functional connectivities predict clinical response with Emotion Regulation Therapy. In M. T. Moore (Chair), Mechanisms of change in mindfulness-based interventions. Symposium presented at the annual meeting of the Association of Behavioral and Cognitive Therapies, San Diego, CA.
2. **Seeley, S.H.**, Mennin, D.S., Heimberg, R.G., Fresco, D.M., & Etkin, A. (2015, November). Conflict adaptation and attentional change in Emotion Regulation Therapy for generalized anxiety disorder. In S. Steinman & L. Hallion (Chairs). Neurocognitive Underpinnings of Anxiety: Implications for Theory and Treatment. Symposium presented at the annual meeting of the Association for Behavioral and Cognitive Therapies, Chicago, IL.
3. **Seeley, S.H.**, *Abbas, M., Mennin, D.S., Aldao, A., & Fresco, D.M. (2015, May). Common and specific patterns of autonomic and subjective responsivity among the distress disorders. In A. Aldao & S. Hofmann (Chairs), Emotion Regulation & Psychopathology: Identifying Transdiagnostic and Disorder-Specific Deficits. Symposium presented at the annual meeting of the Association Psychological Science, New York, NY.
4. **Seeley, S.H.**, Mankus, A.M., Renna, M., Cooper, S.E., Mennin, D.S., Fresco, D.M., & Heimberg, R.G. (2014, March). Emotion Regulation Therapy for generalized anxiety disorder: Effects on response inhibition to task-irrelevant emotional content. In A. Aldao & D. Klemanski (Chairs), Emotion Regulation Flexibility in the Treatment of Anxiety Disorders. Symposium presented at the annual meeting of the Anxiety and Depression Association of America, Chicago, IL.
5. Garcia, E., **Seeley, S.H.**, Quintero, J.M., Fonseca, L., Mennin, D.S. (2014, November). Electrocardiac and autonomic indices of self-referential processing. In S. Berthod & E. Garcia (Chairs). Biosignatures of Affective Psychopathology: Insights from Psychophysiological Measures of Emotional Processing. Symposium presented at the annual meeting of the Association for Behavioral and Cognitive Therapies, Philadelphia, PA.

Community presentations:

6. **Seeley, S.H.** & Bowen, A.M. (2018, January). "Understanding LGBTQ+ Students". Invited presentation for the University of Arizona Pediatric Pulmonary Center Annual School Healthcare Professionals Education Day, Tucson, AZ.
7. **Seeley, S.H.** & Bowen, A.M. (2018, April). "Self-Care for Caregivers". Invited presentation for the University of Arizona Pediatric Pulmonary Center Annual Cystic Fibrosis Patient and Family Education Day, Tucson, AZ.
8. **Seeley, S.H.** & Bowen, A.M. (2017, November). "Improving Behavioral Health for People with Cystic Fibrosis". La Frontera Center, Tucson AZ.

Intramural presentations:

9. **Seeley, S.H.** (2020, February). “The Brain Imaging Data Structure (BIDS) Ecosystem and fMRIPrep”. Presentation for the UA Interdisciplinary Brain Mapping Workgroup, Tucson, AZ.
10. **Seeley, S.H.** (2019, March). “Mental Health in Graduate School.” Invited presentation for the UA Psychology Department Diversity Committee and Psi Chi event “Real Talk: Diverse Perspectives on Graduate School”, Tucson, AZ.
11. **Seeley, S.H.** (2018, November). “Introduction to the Brain Imaging Data Structure and fMRIPrep”. Presentation for the UA Interdisciplinary Brain Mapping Workgroup, Tucson, AZ.

Other presentations:

12. **Seeley, S.H.** (2019, August). “Intro to MRIQC for fMRI Quality Control”. Breakout session presentation at Neurohackademy Summer Institute, University of Washington, Seattle, WA.
13. **Seeley, S.H.** (2019, February). “Getting Started with the Brain Imaging Data Structure and fMRIPrep”. Training for members of the UA Neuroscience of Emotion and Thought Lab (PI: Andrews-Hanna) and Psychophysiology Lab (PI: Allen), Tucson, AZ.
14. **Seeley, S.H.** (2015, various). Led two trainings on heart rate variability interpretation, cleaning, and analysis for student/faculty members of the CUNY Graduate Center and Columbia University.

POSTERS

** indicates mentored student.*

1. *Friedman, S.E., Palitsky, R.P., Ruiz, J., Wilson, D.T., **Seeley, S.H.**, Kassman, L.E., Sullivan, D., O’Connor, M-F. *Grief-Relevant Emotional Interview Induces Elevated Blood Pressure in Bereaved Older Adults*. Poster submitted for the annual meeting of the American Psychosomatic Society, March 2020, Long Beach CA.
2. **Seeley, S.H.**, Arizmendi, B.A., O’Connor, M-F. *Desperately Seeking: Effects of Complicated Grief and Intranasal Oxytocin on Resting State Networks in Widowed Older Adults*. Poster presented at the annual meeting of the Society for Psychophysiological Research, October 2019, Washington DC.
3. Quintero, J.M., **Seeley, S.H.**, Renna, M.R., & Mennin, D.S. *Indices of Trait Emotionality and Emotion Regulation: A Concordance Study Between Myoelectrical Gastric Reactivity and Heart Rate Variability*. Poster presented at the annual meeting of the Society for Psychophysiological Research, October 2018, Quebec City, Quebec, Canada.
4. Quintero, J.M., **Seeley, S.H.**, Renna, M.R., & Mennin, D.S. *Trait Indices of Emotionality and Emotion Regulation: An Examination of Individual Differences in Emotional Processing and Myoelectrical Gastric Reactivity*. Poster presented at the annual meeting of the Association for Behavioral and Cognitive Therapies, November 2017, San Diego, CA.
5. Quintero, J.M., **Seeley, S.H.**, Renna, M.E., & Mennin, D.S. *Links Between Individual Differences in Trait Emotionality and Altered Gastric Myoelectrical Activity*. Poster presented at the annual meeting of the Anxiety and Depression Association of America, April 2017, San Francisco, CA.
6. Sandman, C.F., Raab, H.A., **Seeley, S.H.**, García-Lesy, E., Fresco, D.M., Mennin, D.S., & Liston, C. *Greater Prefrontal Recruitment Associated with Clinical Improvement and Metacognitive Skills in Generalized Anxiety Patients Following Emotion Regulation Therapy*. Poster presented at the annual meeting of the Anxiety and Depression Association of America, April 2017, San Francisco, CA.
7. Raab, H.A., Sandman, C.F., **Seeley, S.H.**, García-Lesy, E., Fresco, D.M., Mennin, D.S., & Liston, C. *Increased Prefrontal Activation to Negative Stimuli Is Associated with Clinical Improvement Following Emotion Regulation Therapy for Generalized Anxiety Disorder*. Poster presented at the annual meeting of the Society for Neuroscience, November 2016, San Diego, CA.
8. **Seeley, S.H.**, García-Lesy, E., Mennin, D.S. *The Role of Trait Worry in Temporal Dynamics of the Evoked Cardiac Response to Affective Images*. Poster presented at the annual meeting of the Society for Psychophysiological Research, September 2015, Seattle, WA. ***Student poster award**
9. Renna, M.E., **Seeley, S.H.**, *Chin, S., Heimberg, R.G., Fresco, D.M., Mennin, D.S. *The Utility of a Behavioral Measure of Distress Tolerance in Generalized Anxiety Disorder*. Poster presented at the annual meeting of the Association of Psychological Science, May 2015, New York, NY.
10. Renna, M.E., **Seeley, S.H.**, *Chin, S., Heimberg, R.G., Fresco, D.M., Mennin, D.S. *The Mirror Tracing Persistence Task as a Distress Tolerance Marker in Generalized Anxiety Disorder*. Poster presented at the annual meeting of the Anxiety and Depression Association of America, April 2015, Miami, FL.
11. Adelsberg, S., Roy, A.K., **Seeley, S.H.**, Garcia, E., Renna, M.E., Fresco, D.M., & Mennin, D.S. *Changes in Emotion Regulation Circuitry Associated with a Regulation-Based Intervention for Generalized Anxiety Disorder*. Poster presented at the annual meeting of the Association for Behavioral and Cognitive Therapies, November 2014, Philadelphia, PA.

12. Renna, M., **Seeley, S.H.**, Chin, S., Heimberg, R.G., Fresco, D.M., Mennin, D.S. *Preliminary Evidence for a Behavioral Measure of Distress Tolerance in Generalized Anxiety Disorder*. Poster presented at the annual meeting of the Association for Behavioral and Cognitive Therapies, November 2014, Philadelphia, PA.
13. Garcia, E., Quintero, J. M., **Seeley, S.H.**, Fonseca, L., Mennin, D.S. *Dispositional Positive Self-Referential Processing Modulates Late-Positive Potential Responses in an Emotional-Motivational Context*. Poster presented at the annual meeting of the Association for Psychological Science, May 2014, San Francisco, CA.
14. Garcia, E., **Seeley, S.H.**, Fonseca, L., Quintero, J. M., Renna, M., Skytte-O'Toole, M.S., Mennin, D.S. *Positive Self-Referential Processing Modulates Electrocortical Responses to Emotional Stimuli*. Poster presented at the annual meeting of the Anxiety and Depression Association of America, March 2014, Chicago, IL.
15. Renna, M., **Seeley, S.H.**, Mankus, A.M., Garcia, E., Mennin, D.S., Fresco, D.M., Heimberg, R.G. *Emotion Regulation Therapy for Generalized Anxiety Disorder: Exploration of Heart Rate Variability and Inhibition of Emotional Interference*. Poster presented at the annual meeting of the Anxiety and Depression Association of America, March 2014, Chicago, IL.

SUPERVISED CLINICAL EXPERIENCE

07/18 – present	Banner-University Medical Center, Dept. of Psychiatry – Early Psychosis Intervention Center (EPICenter) Psychology Extern, Tucson, AZ Supervisors: Patricia Harrison-Monroe, PhD; Gustavo Perez, PhD
01/19 – present	Banner-University Medical Center, Dept. of Psychiatry – Psilocybin for Treatment of Obsessive-Compulsive Disorder (Research Study; PI: Moreno) Structured Clinical Interviewer, Tucson, AZ Supervisor: John J.B. Allen, PhD
05/17 – 07/18	Banner-University Medical Center, Dept. of Pulmonology – Cystic Fibrosis Clinics (Adult & Pediatric) Psychology Extern, Tucson, AZ Supervisor: Anne M. Bowen, PhD
08/15 – 05/17	University of Arizona, Dept. of Psychology – Behavioral Health Clinic Student Clinician, Tucson, AZ <i>Acceptance and Commitment Therapy (ACT) Practicum (Spring '17)</i> Supervisor: Anne M. Bowen, PhD <i>Cognitive-Behavioral Therapy (CBT) Practicum (Fall '16)</i> Supervisors: David S. Sbarra, PhD; Autumn Wiley-Hill, PhD <i>Community Assessment Practicum (Spring '16)</i> Supervisor: Kathleen Prouty, PhD <i>Assessment Practicum (Fall '15)</i> Supervisor: John J.B. Allen, PhD Supervisors: Various (see above)
10/15 – 05/16	University of Arizona, Dept. of Psychology – Psychophysiology Laboratory (Research Study, PI: Allen) Structured Clinical Interviewer, Tucson, AZ Supervisor: John J.B. Allen, PhD

PROFESSIONAL SERVICE

Societal Committees and Service

01/16 – 12/17	Student Representative, Southern Arizona Psychological Association	Student Representative
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Intramural Committees and Service (University of Arizona)

2019 - present	Graduate Student Wellness Committee, UA Psychology Department	Member/Data Analyst
2016 - present	Diversity Committee, UA Psychology Department	Student Representative
Fall 2017	Arizona's Science, Engineering and Math Scholars (ASEMS) Program, UA	Graduate Student Mentor
Fall 2016	UA Graduate & Professional Student Council	Travel Grants Reviewer

EDITORIAL CONTRIBUTIONS

2019	Cognitive, Affective, & Behavioral Neuroscience	Ad Hoc Reviewer
2019	European Child & Adolescent Psychiatry <i>Publons profile: https://publons.com/author/1518351</i>	Ad Hoc Reviewer

SCHOLARLY SOCIETIES

Society for Psychophysiological Research
 Society for the Improvement of Psychological Science
 Society for the Science of Clinical Psychology
 Association for Psychological Science
 Anxiety and Depression Association of America
 Association for Behavioral and Cognitive Therapies

TEACHING EXPERIENCE

Teaching Assistant

Spring 2019	Psychotherapy Interventions (ACT practicum)	University of Arizona	Graduate course
Fall 2018	Psychotherapy Interventions (CBT practicum)	University of Arizona	Graduate course
Spring 2017	Developmental Psychology	University of Arizona	Undergraduate course
Fall 2016	Mind, Brain & Behavior	University of Arizona	Undergraduate course
Spring 2016	Introduction to Psychology	University of Arizona	Undergraduate course

“Helper”/TA

October 2019	Software/Data Carpentry: git, Unix, R	University of Arizona	Stand-alone workshop
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SPECIALIZED TRAININGS

08/2019	Neurohackademy summer institute in neuroimaging and data science (2 weeks). University of Washington eScience Institute, Seattle, WA.
12/2017	Reproducible fMRI Workshop (5 days). University of North Carolina - Chapel Hill, Carrboro, NC.
09/2017	Science Alliance Leadership Training (4 days). New York Academy of Sciences, Atlanta, GA.
08/2017	Software/Data Carpentry Workshop (2 days). University of Arizona BIO5 Institute, Tucson, AZ.
08/2015	fMRI Image Acquisition and Analysis Course (3 days). The Mind Research Network, Albuquerque, NM.

SPECIAL SKILLS

- Experience with electronic medical record systems (Cerner; Epic).
- CPR Basic Life Support certification.
- Completed 8-hour CPI Nonviolent Crisis Intervention training.
- Training/experience with statistical software (R, SPSS).
- Training/experience with neuroimaging software, including SPM, GIFT, and Brain Imaging Data Structure apps (e.g., fMRIPrep).
- Training/experience in peripheral psychophysiology software (Biopac/AcqKnowledge; QRSTool/CMetX; Kardia).
- Training/experience in fMRI, EEG, and psychophysiological data collection.
- Training/experience with tools for reproducible science, including the Open Science Framework, git/Github, Jupyter Notebooks, and R Markdown.
- Familiarity with programming languages (Unix/bash, Matlab, Python).
- Experience in website construction (HTML; CSS).

Github: <https://github.com/sareenseeley>

Personal website: <https://sareenseeley.github.io>