

### EDUCATION

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- 2022 - Present      **University of California, Los Angeles (UCLA)**, Los Angeles, CA  
Doctoral Student, Clinical Psychology  
PhD, expected 2028  
Advisor: Lara Ray, PhD
- 2016 - 2020      **Colby College**, Waterville, ME  
Bachelor of Arts in Psychology and Biology: Neuroscience  
GPA: 4.02/4.00 (Summa Cum Laude)  
Honors Thesis: *Executive Function Deficit as a Precursor to Memory Impairments in hApoE4 Transgenic Rats*

### HONORS AND AWARDS

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- 2022      UCLA College of Letters and Science and Department of Psychology Summer Mentored Research Fellowship (SMRF)
- 2020      *Alzheimer's Association International Conference: Neuroscience Next* Lightning Presentation Winner
- 2019 - Present      Phi Beta Kappa Member (Early Induction)
- 2018 - Present      Psi Chi Member
- 2018      Julius Seelye Bixler Scholar (\$1,000 award): *Top-ranking students by academic record*
- 2017      Charles A Dana Scholar (\$1,000 award): *Strong academic performance and leadership*
- 2016      Ralph J. Bunche Scholar (\$3,000 award): *Scholastic strength and leadership potential*
- 2016 - 2020      Dean's List

### PEER-REVIEWED PUBLICATIONS

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- Orhan, M., Millett, C., Klaus, F., Blumberg, H. P., Briggs, F., Chung, K. H., Korten, N., **McManus, K.**, van Oppen, P., Patrick, R. E., Sarna, K., Sutherland, A., Tsai, S. Y., Villa, L. M., Yala, J., Sajatovic, M., Burdick, K. E., Eyler, L., Dols, A., & GAGE-BD consortium (2022). Comparing continuous and harmonized measures of depression severity in older adults with bipolar disorder: Relationship to functioning. *Journal of Affective Disorders*, 314, 44-49. <https://doi.org/10.1016/j.jad.2022.06.074>
- Fahed, M., **McManus, K.**, Vahia, I. V., & Offodile, A. C., 2nd (2022). Digital Phenotyping of Behavioral Symptoms as the Next Frontier for Personalized and Proactive Cancer Care. *Journal of Clinical Oncology*, 6, e2200095. <https://doi.org/10.1200/CCI.22.00095>
- McManus, K.**, Patrick, R., Weinberg, M., Striepe, M., Drury, M., Ozonsi, R., Forester, B, Weinberg, M. (2022). Classic Psychedelics for Alzheimer's Disease Palliative Care. *Advances in Psychiaitry and Behavioral Health*, 2(1), 37-46. <https://doi.org/10.1016/j.ypsc.2022.06.001>
- McManus, K. R.**, Lapid, M. I., Forester, B. P., Mueller, M., Hermida, A. P., Nykamp, L., Harper, D. G., Seiner, S. J., Sanghani, S., Patrick, R., Gentry, M. T., Kung, S., Leal, J. C., Johnson, E. K., & Petrides, G. (2022). Simulated Electroconvulsive Therapy: A Novel Approach to a Control Group in Clinical Trials. *The Journal of ECT*, 38(3), 165-170. <https://doi.org/10.1097/YCT.0000000000000832>

## PUBLISHED CONFERENCE ABSTRACTS

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**McManus, K.,** Ash, E, Harper, D., Smith, R., Gruber, S., Forester, B. (2021) Caring for Behavioral Symptoms of Dementia (CBD): A New Investigation into Cannabidiol for the Treatment of Anxiety and Agitation in Alzheimer's Dementia. *The American Association of Geriatric Psychiatry*, 29(4), S110-S111.  
<https://doi.org/10.1016/j.jagp.2021.01.107>

## ORAL & POSTER PRESENTATIONS

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**McManus, K.,** Dahlgren, M. K., Sagar, K., Smith, R., Lambros, A., El-Abboud, C., Kosereisoglu, D., Gruber, S. (Submitted). *Age is not just a number: Differential impact of clinical symptom severity and medical cannabis efficacy in younger vs older adults*. Abstract submitted for poster presentation at McLean Research Day.

**McManus, K.,** Ren, B., Harper, D., Olson, D., Forester, B., Patrick, R. (Submitted). *Integration of standardized brain volumetric and neuropsychological assessment data: Conceptual background and preliminary data*. Abstract submitted for poster presentation at the American Association of Geriatric Psychiatry.

**McManus, K.,** Cray, H., Hsu, C., Longsjø, E., Patrick, R., Vahia, I. (Submitted). *Developing a New Suicide Risk Assessment for Virtual Encounters with Non-Clinicians*. Abstract submitted for poster presentation at the American Association of Geriatric Psychiatry.

Lapid, M., Forester, B., Hermida, A., Nykamp, L., Mueller, M., Harper, D., Patrick, R., **McManus, K.,** Green, M., Rath, S., O'Mara, J., Petrides, G. (2021). *ECT-AD Trial: Challenges to Startup & Recruitment*. Poster presented at the Clinical Trials on Alzheimer's Disease Conference.

**McManus, K.,** Ozonsi, R., Patrick, R., Harper, D., Smith, R., Gruber, S., Forester, B. (2021). *Caring for Behavioral Symptoms of Dementia (CBD): Cannabidiol for the Treatment of Anxiety and Agitation in Alzheimer's Disease*. Poster presented at the Clinical Trials on Alzheimer's Disease Conference.

Weisenbach, S., Teixeira, A., Ajilore, O., Forester, B., **McManus, K.,** Ryan, K., Zhang, Y. (2021). *Late Life Mood Disorders: A Multi-Site Registry Project*. Poster presented virtually at the National Network of Depression Centers Annual Conference.

**McManus, K.,** Patrick, R., Harper, D., Smith, R., Gruber, S., Forester, B. (2021). *Caring for Behavioral Symptoms of Dementia (CBD): A New Investigation into Cannabidiol for the Treatment of Anxiety and Agitation in Alzheimer's Dementia*. Poster presented virtually at the Alzheimer's Association International Conference.

**McManus, K.,** Blackmer-Raynolds, L., Donigan, E., & Glenn, M. (2020). *Cognitive and affective deficits in a hApoE4 knock-in rat model of Alzheimer's disease: Variances in AD development across sex and the lifespan*. Presented virtually at the Alzheimer's Association International Conference: Neuroscience Next.

**McManus, K.,** Anderson, W., Goldstein, S., Gordillo, L., Gu, P., Kyuchukova, K., Rozanitis, M., Simpson, L., & Ventura, K. (2018). *Factors related to the punishment of infants and toddlers*. Oral talk presented at the Early Childhood Cognition Lab 2018 Summer Research Festival. Seattle, WA.

**McManus, K.,** Buckman, E., & Selemon, O. (2018). *Sad Girl Bad Girl: Affective deficits in female Long Evans rats resulting from mild traumatic brain injury*. Poster presented at the Colby College Psychology Department Poster Session. Waterville, ME.

**McManus, K.,** Lucca, K., & Sommerville, J. (2018). *Infants' distribution of trying: a cost-benefit analysis of persistence*. Poster presented at the University of Washington Undergraduate Research Program Poster Session and the Early Childhood Cognition Lab 2018 Summer Research Festival. Seattle, WA.

**McManus, K.,** Porcher, P., Schuhlen, J., & Song, J. (2018). *"Woof" said the cat: The influence of stress and authority on conforming behaviors*. Poster presented at the Colby College Liberal Arts Symposium. Waterville, ME.

Xu, S., Yu, W., Gray, S., **McManus, K.**, McBride, D., & Coane, J. (2017). *Feature Boosts and False Alarms: The Value of Testing Activation*. Poster presented at the Colby College Liberal Arts Symposium and the Colby College Psychology Department Poster Session. Waterville, ME.

Xu, S., Yu, Z., Grey, S., **McManus, K.**, & Coane, J. (2017). *Short term memories vary as a function of list type*. Poster presented at the Colby College Psychology Department Poster Session. Waterville, ME.

## PROFESSIONAL EXPERIENCE

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- 2020-2022      **McLean Hospital**, Belmont, MA  
Clinical Research Assistant II  
*40 hours weekly. Paid position.*
- 2019 (Summer)      **Massachusetts General Hospital**, Boston, MA  
Research Intern, Center for Addiction Medicine  
*16 hours weekly. Unpaid position.*
- 2019 (Summer)      **Harvard University**, Cambridge, MA  
Research Assistant, Clinical Research Lab  
*24 hours weekly. Unpaid position.*
- 2019-2020      **Colby College**, Waterville, ME  
Thesis Student, Neural Plasticity and Behavior Lab  
*20 hours weekly. Unpaid position.*
- 2018 (Summer)      **University of Washington**, Seattle, WA  
Research Intern, Early Childhood Cognition Lab  
*40 hours weekly. Unpaid position.*
- 2017 - 2020      **Colby College**, Waterville, ME  
Research Assistant, Memory and Language Lab  
*10 hours weekly. Paid position.*

## RESEARCH EXPERIENCE

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- 2020-2022      **Clinical Research Assistant II, McLean Hospital**, Belmont, MA  
**Geriatric Psychiatry Research Program**  
PI: Brent Forester, MD, MSc
- Investigator-Initiated Study of Cannabidiol to Reduce Anxiety in Mild-Moderate Alzheimer's Disease  
*Supervisor: Drs. Brent Forester, Staci Gruber, and David Harper*
- Revitalized study structure, design, and regulatory management. Created virtual regulatory binders and virtual eConsent platforms to adapt to remote work. Built virtual database for scale collection and survey distribution. Constructed external database for monitoring subject data collection and progression in real-time.
  - Independently coordinate and conduct study visits. Administer neuropsychological assessments and mood scales. Longitudinally follow participants and navigate unique and difficult clinical interactions.
- Industry-Sponsored Clinical Trial for Mild Cognitive Impairment and Mild Alzheimer's Disease  
*Supervisor: Drs. Brent Forester and David Harper*
- Oversaw close out procedures for global shut down of Biogen sponsored anti-tau disease-modifying clinical trial. Navigated difficult clinical conversations with participants and their families regarding sudden shut down.

- Coordinated and conducted infusion visits, MRI and PET scans, and neuropsychological testing.

Investigator-Initiated Study Utilizing Electro-Convulsive Therapy for Agitation and Aggression Reduction in Moderate to Severe Alzheimer’s Disease

*Supervisor: Drs. Brent Forester and David Harper*

- Operate as local site lead on multi-site, NIH funded, study. Coordinate with leads of other sites to assess study recruitment progress. Facilitated publication projects.
- Spearheading database project to integrate measurement-based care into an inpatient clinical setting.

Investigator-Initiated Study Investigating Changes in Brain Activity from Low Field Magnetic Stimulation in Older Adults with Bipolar Disorder

*Supervisor: Drs. Brent Forester, David Harper, and Mike Rohan*

- Assess suicidality and administer neuropsychiatric and mood scales to older adults with bipolar disorder. Revitalized suicidality trainings across the program by adapting procedures for situations of imminent harm to remote telehealth visits.
- Conducted data analysis for previously collected LFMS study data using R.

Investigator-Initiated Study Assessing the Changes of Mood and Cognition in Aging Adults

*Supervisor: Drs. Brent Forester and David Harper*

- Conduct informed consent procedures and administer neuropsychological and mood assessments to healthy controls and subjects with bipolar disorder or major depressive disorder every three months over a three-year protocol.
- Manage a multi-site repository of clinical, cognitive, and neurobiological data for geriatric mood disorders funded by the National Network for Depressive Centers (NNDC).
- Manage and oversee data sharing with the Global Aging & Geriatric Experiments in Bipolar Disorder Database (GAGE-BD).

Grant Proposal Utilizing RDoC Approach to Assess Associations of Neuropsychiatric Symptoms with the Neurobiology of Alzheimer’s Disease via Independent Component Analysis

*Supervisor: Drs. David Harper and Lisa Nickerson*

- Self-taught and utilized c shell scripting to download and store imaging data from Alzheimer’s Disease Neuroimaging Initiative (ADNI) database.
- Visualize and analyze structural brain abnormalities of images from the ADNI database using FSLVBM.
- Visualize and analyze cortical anatomy of images from the ADNI database using Freesurfer.

2021-2022

**Clinical Research Assistant II, McLean Hospital, Belmont, MA**

**Marijuana Investigations for Neuroscientific Discovery/Cognitive and Clinical Neuroimaging Core**

PI: Staci Gruber, PhD

Investigator-Initiated Study of Medical Marijuana Impact on Cognition, Anxiety, and Pain

*Supervisor: Dr. Staci Gruber*

- Currently undergoing training to independently coordinate and conduct study visits, administer neuropsychological and mood scales to adults over the age of 18.
- Collect buccal swabs for DNA analysis of genetic variants related to the endocannabinoid system impacting medical cannabis effects.

2019 (Summer)

**Research Intern, Massachusetts General Hospital, Boston, MA  
Center for Addiction Medicine**

PI: Jodi Gillman, Ph.D.; Randi Schuster, Ph.D.

Investigator-Initiated Study Using Function Near-Infrared Spectroscopy (fNIRS) to Assess the Cognitive Effects of Marijuana and Alcohol Consumptions on the Brain

*Supervisor: Drs. Jodi Gillman and Randi Schuster*

- Conducted phone screens for participant recruitment and shadowed participant visits. Interacted with subjects before and after synthetic dronabinol consumption and observed their cognitive testing. Collaborated with others on thorough data checking.
- Studied MATLAB and deep learning techniques to analyze and utilize fNIRS data.

2019 (Summer)

**Research Assistant, Harvard University, Cambridge, MA  
Clinical Research Lab**

PI: Jill Hooley, PhD

Graduate Student-Initiated Study Assessing How Humans Relive Social Vs Physical Pain

*Supervisor: Dr. Jill Hooley*

- Assisted with literature searches, stimuli finalization, data collection, data organization, and preliminary data analysis.

2019-2020

**Thesis Student, Colby College, Waterville ME  
Behavioral Neuroscience Lab**

PI: Melissa Glenn, PhD

Self-Initiated Study of Executive Dysfunction in hApoE4 Transgenic Rats

*Supervisor: Dr. Melissa Glenn*

- Formulated, designed, and executed original research study utilizing transgenic h-ApoE4 knock-in animal models.
- Analyzed behavioral data and conducted immunohistochemistry assays on blood samples.
- Sacrificed animal models and prepared brains for analysis.

2018 (Summer)

**Research Intern, University of Washington, Seattle, WA  
Early Childhood Cognition Lab**

PI: Jessica Sommerville, PhD

Investigator-Initiated Study Assessing the Cost-Benefit Analysis of Infants: Distribution of Persistence

*Supervisor: Drs. Jessica Sommerville and Kelsey Lucca*

- Assisted in the design, procedural implementation, data collection, and data analysis required to measure infants' decision making and physiological states during varying situations.
- Data coding and entry of infant trying behaviors.

Intern-Initiated Study Assessing Factors Related to The Punishment of Toddlers

*Supervisor: Drs. Jessica Sommerville and Kelsey Lucca*

- Assisted in the creation, distribution, coding, and analyzing of a survey to assess the association between caretaker mindset and caretaker response style to child misbehaviors.

2017-2020

**Research Assistant, Colby College, Waterville, ME**

**Memory and Language Lab**

PI: Jen Coane, PhD

Investigator-Initiated Assessing the Cause of Feature Boosts in the Creation of False Memories

*Supervisor: Dr. Jen Coane*

- Administered tests of categorically and associatively related word lists or purely associatively related word lists to college students.

Investigator-Initiated Study to Understand the Mechanism of False Memories in Short Term Memory

*Supervisor: Dr. Jen Coane*

- Recruited for and coordinated study visits. Administered tests of short-term memory utilizing semantic, phonological, and hybrid word lists.
- Data collection to assess the effects of mediated priming on false memories for varying word types.

## CLINICAL EXPERIENCE

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2020-2022

**Clinical Research Assistant II, McLean Hospital, Belmont, MA**

**Geriatric Psychiatry Research Program**

PI: Brent Forester, MD, MSc

- Administer neuropsychological assessments, including California Verbal Learning Test (CVLT), Mini Mental Status Exam (MMSE), Montreal Cognitive Assessment (MOCA), and Trail Making Test (TMT).
- Administer mood assessments that include the Mini International Neuropsychiatric Interview (MINI), Columbia Suicide Severity Rating Scale (C-SSRS), Young Mania Rating Scale (YMRS), Montgomery-Asberg Depression Rating Scale (MADRS), Confusion Assessment Method (CAM), Beck Anxiety Inventory (BAI), Generalized Anxiety Disorder-7 (GAD-7), Global Assessment of Functioning (GAF), and Beck Depression Inventory (BDI).
- Coordinate and conduct longitudinal observational studies and clinical trials, acting as the main point of contact for older adults with Alzheimer's disease, older adults with major depressive disorder, older adults with bipolar disorder, cognitively healthy older adults, and caregivers.

2021-2022

**Clinical Research Assistant II, McLean Hospital, Belmont, MA**

**Marijuana Investigations for Neuroscientific Discovery/Cognitive and Clinical Neuroimaging Core**

PI: Staci Gruber, PhD

- Advanced skill trainings in administering neuropsychological assessments that include Rey Auditory Verbal Learning Test (RAVLT), Benton Visual Retention Test (BVRT), Wechsler Abbreviated Scale Intelligence (WASI) Vocabulary and Matrix Reasoning, Controlled Oral Word Association Test (COWAT), Wisconsin Card Sorting Task (WCST), Letter-Number Sequencing, Stroop Color and Word Test, and Multi Source Interference Test (MSIT).

- Advanced training to conduct study visits for longitudinal observational studies and clinical trials of medical cannabis in adults with anxiety and/or chronic pain, veterans, and opioid users.

2018-2020 **Bedside Manor Volunteer, Oakland, ME**

- Attended weekly visits to assisted living facilities to spend time with Alzheimer's disease patients through the "Cure the Cloud" initiative.
- Engaged with patients through arts and crafts projects to increase social connectivity and enhance creativity.

**TEACHING EXPERIENCE**

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2017-2020 **Department of Psychology Tutor, Colby College**

*Supervisors: Tarja Raag, PhD. And Jen Coane, PhD. 4 hours weekly. Paid position.*

- Worked as a one-on-one tutor for students in need of assistance on homework, projects, or individual exam preparation, as identified by the professor.
- Coordinated group tutoring sessions in preparation for exams.

2018 **Earth Science Tutor, Waterville Junior High School**

*2 hours weekly. Unpaid position.*

- Conducted one-on-one tutoring sessions with students requiring additional time for reading, writing, and test taking.
- Social mentoring for students identified by teacher as in need of additional mentorship.

**LEADERSHIP & SERVICE EXPERIENCE**

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2021 **Suicidality Protocol for Non-Clinicians, McLean Hospital**

- Collaborated with colleague to lead effort revitalizing suicidality procedures within the Geriatric Psychiatry Research Program, specifically for virtual study visits.
- Created survey for division-wide clinicians querying them for recommendations on how non-clinicians can better prepare and navigate encounters with study subjects that endorse suicidality.
- Developed updated standard operating procedures, preparatory materials and clinician coverage contact list. Adapted novel information into conference submission and planning to create panel of non-clinician suicidality procedures across labs at McLean Hospital.

2020 **Cambridge Neighbors, Cambridge, MA**

- Community outreach to organization supporting seniors healthy aging.
- Organized and performed presentation for staff and members regarding available and applicable research study opportunities for geriatric mental/cognitive health.

2016-2020 **Active Minds, Colby College**

- President of mental-health activism club.
- Organized yearly suicide awareness event of planting flags across campus to memorialize college students that lost their lives by suicide.
- Planned, organized, and implemented events to raise awareness of student mental health and reduce the stigma of seeking help for mental health.

2016-2018 **Mid-Maine Homeless Shelter, Waterville, ME**

- Volunteered biweekly with after-school activities to engage youth and assist in child-care role.
- Tutor youth residents with homework and school projects.
- Assist with food preparation.

## CONTINUING EDUCATION

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2021-2022	McLean Hospital Grand Rounds Lecture Series
2021-2021	McLean Hospital Grand Rounds Lecture Series
2020	MGH Research Institute: QI Bootcamp for Clinical Researchers

## SKILLS

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### Clinical Skills:

**Advanced:** Neuropsychological Testing (ex. CVLT, MMSE, HVLTR, MOCA, Stroop Color and Word Test, Trail Making Test, MSIT, RAVLT, BVRT, Letter-Number Sequencing, WASI, COWAT), Mood Testing (ex. MINI, C-SSRS, YMRS, MADRS, CAM, BAI, GAD-7, GAF, BDI) EKG, Vitals (blood pressure, heart rate), Phlebotomy.

**Proficient:** Buccal Swabs, First Aid CPR AED, EPIC.

### Technical Skills:

**Advanced:** SPSS, Microsoft Office Suite (ex. Excel, Word, PowerPoint), REDCap.

**Proficient:** R, Qualtrics, Amazon Mechanical Turk, E Prime, FSL, Freesurfer, UNIX/LINUX, C shell scripting.

## PROFESSIONAL MEMBERSHIPS

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American Association of Geriatric Psychiatry

Alzheimer's Association

Boston Psychedelic Research Group

## REFERENCES

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*References may be provided upon request.*