

***Curriculum Vitae*****Erin L. Martin, Ph.D.**

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**EDUCATION**

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- 2024      **Doctor of Philosophy**, Neuroscience  
 Medical University of South Carolina, Charleston, SC  
 Advisor: Aimee McRae-Clark, Pharm.D.
- 2015      **Bachelor of Arts**, Psychology  
 University of Maryland, Baltimore County, Baltimore, MD

**PROFESSIONAL EXPERIENCE**

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- 2026 –     **Research Assistant Professor**  
 Addiction Sciences Division  
 Department of Psychiatry and Behavioral Sciences, Medical University of South Carolina,  
 Charleston, SC
- 2024 – 2025 **Postdoctoral Fellow**  
 Addiction Sciences Division  
 Department of Psychiatry and Behavioral Sciences, Medical University of South Carolina,  
 Charleston, SC
- 2016 – 2019 **Research Program Coordinator**  
 Behavioral Pharmacology Research Unit  
 Department of Psychiatry and Behavioral Sciences, Johns Hopkins University, Baltimore, MD
- 2016        **Research Intern**  
 Behavioral Pharmacology Research Unit  
 Department of Psychiatry and Behavioral Sciences, Johns Hopkins University, Baltimore, MD

**GRANT SUPPORT**

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*Training Grants*

- 1/26 –     Sex differences in neurobehavioral response to acute THC in adults with cannabis use disorder  
 K12-DA031794 – National Institute on Drug Abuse  
 Direct cost: \$50,000  
 Role: Principal Investigator
- 5/24 – 12/25 Drug Abuse Training Program  
 T32-DA007288 – National Institute on Drug Abuse  
 Role: Postdoctoral Fellow (PI: Jacqueline McGinty, Ph.D.)
- 6/22 – 4/24 Evaluating contributors to relapse in comorbid major depressive disorder and cannabis use disorder  
 F31-DA057051 – National Institute on Drug Abuse  
 Role: Principal Investigator

8/20 – 5/22 Drug Abuse Training Program  
T32-DA007288 – National Institute on Drug Abuse  
Role: Pre-Doctoral Trainee (PI: Jacqueline McGinty, Ph.D.)

5/20 – 7/20 Drug Abuse Research Training Summer Research Fellowship  
R25-DA020537 – National Institute on Drug Abuse  
Role: Summer Trainee (PI: Sudie Back, Ph.D.)

### Research Grants

- 6/25 – 6/26 Sex differences in the genetics of cannabinoid metabolism  
Early Career Investigator Grant – College on Problems of Drug Dependence  
Direct cost: \$10,000  
Role: Principal Investigator
- 8/23 – 7/28 MUSC Specialized Center of Research Excellence on Sex Differences (SCORE): Sex differences in risk of cognitive decline in older cannabis users  
U54-DA016511 – National Institute on Drug Abuse  
Direct cost: \$1,255,479  
Role: Co-Investigator (MPIs: Andreana Benitez, Ph.D., Aimee McRae-Clark, Pharm.D.)
- 5/21 – 4/22 Endocannabinoid dysregulation in cannabis dependence and acute cannabis withdrawal  
U54-DA016511 – National Institute on Drug Abuse  
Direct cost: \$15,000 (Pilot Award)  
Role: Principal Investigator

### **HONORS & AWARDS**

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- 2025 ICRS Postdoctoral Scientific Achievement Award  
2024 SCORE Annual Meeting Early Career Presentation Award  
2024 ICRS Braude Foundation Award  
2024 MUSC Distinguished Graduate Award  
2024 SOBP Predoctoral Travel Fellowship Award  
2023 CPDD Early Career Research Presentation Competition Winner  
2022 MUSC Research Day Oral Presentation Award  
2022 SCORE Annual Meeting Flash Talk Award  
2022 MUSC Dean's Incentive Award  
2022 ICRS Braude Foundation Award  
2022 ICRS Trainee Grant  
2022 CPDD NIDA Director's Travel Award  
2021 ICRS Trainee Award  
2021 CPDD NIDA Women & Sex/Gender Junior Investigator Travel Award  
2015 Cum Laude, University of Maryland, Baltimore County

### **PUBLICATIONS**

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#### Peer-Reviewed Journal Articles

- 13) **Martin EL**, Baker NL, Ramakrishnan V, Neelon B, Saladin ME, & McRae-Clark AL. Gender differences in circumstances associated with cannabis use. *The American Journal on Addictions* (2025).
- 12) **Martin EL**, Campbell LM, Thorn K, Sahlem GL, McRae-Clark AL, & Benitez A. Sex differences in normative modeling of cortical thickness in cannabis use disorder. *Drug and Alcohol Dependence Reports* (2025).
- 11) Lee DC, Schlienz NJ, Herrmann ES, **Martin EL**, Leoutsakos J, Budney AJ, Tompkins DA, Hampson AJ, & Vandrey R. Randomized controlled trial of zolpidem as a pharmacotherapy for cannabis use disorder. *Journal of Substance Use and Addiction Treatment* (2024).
- 10) **Martin EL**, Baker NL, Sempio C, Christians U, Klawitter J, & McRae-Clark AL. Sex differences in

- endocannabinoid tone in a pilot study of cannabis use disorder and acute cannabis abstinence. *Addiction Biology* (2023).
- 9) **Martin EL**, Neelon B, Brady K, Guille C, Baker N, Ramakrishnan V, Gray KM, Saladin ME, & McRae-Clark AL. Differential prevalence of Adverse Childhood Experiences (ACEs) by gender and substance used in individuals with cannabis, cocaine, opioid, and tobacco use disorders. *The American Journal of Drug and Alcohol Abuse* (2023).
  - 8) Garcia-Romeu A, Elmore J, Mayhugh R, Schlienz NJ, **Martin EL**, Strickland JC, Bonn-Miller MO, Munson J, Jackson H, & Vandrey R. Online survey of medicinal cannabinoid users: qualitative analysis of users' experiences. *Frontiers in Pharmacology* (2022).
  - 7) Sholler DJ, Zamarripa CA, Spindle TR, **Martin EL**, Kuntz D, Vandrey R, & Grabenauer M. Urinary excretion profile of cannabinoid analytes following acute administration of oral and vaporized cannabis in infrequent cannabis users. *Journal of Analytical Toxicology* (2022).
  - 6) **Martin EL**, Strickland JC, Schlienz NJ, Munson J, Jackson H, Bonn-Miller MO, & Vandrey R. Antidepressant and anxiolytic effects of medicinal cannabis use in an observational trial. *Frontiers in Psychiatry* (2021).
  - 5) **Martin EL**, Doncheck EM, Reichel CM, & McRae-Clark AL. Consideration of sex as a biological variable in the translation of pharmacotherapy for stress-associated drug seeking. *Neurobiology of Stress* (2021).
  - 4) Strickland JC, Jackson H, Schlienz NJ, Salpekar J, **Martin EL**, Munson J, Bonn-Miller MO, & Vandrey R. Cross-sectional and longitudinal evaluation of cannabidiol (CBD) product use and health among people with epilepsy. *Epilepsy & Behavior* (2021).
  - 3) Spindle TR, **Martin EL**, Grabenauer M, Woodward T, Milburn M, & Vandrey R. Assessment of cognitive and psychomotor impairment, subjective drug effects, and blood THC concentrations following acute administration of oral and vaporized cannabis. *Journal of Psychopharmacology* (2021).
  - 2) **Martin EL** & McRae-Clark AL. Evidence for the endocannabinoid system as a therapeutic target in the treatment of cannabis use disorder. *Current Addiction Reports* (2020).
  - 1) Schlienz NJ, Scalsky R, **Martin EL**, Jackson H, Munson J, Strickland JC, Bonn-Miller MO, Loflin M, & Vandrey R. A cross-sectional and prospective comparison of medicinal cannabis users and controls on self-reported health. *Cannabis & Cannabinoid Research* (2020).

## **PRESENTATIONS**

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- 2025     **Martin EL**, Baker NL, Neelon B, Watson Z, Saladin ME, Tomko RL, Sherman BJ, Gray KM, & McRae-Clark AL. Sex differences in stress responding in a clinical trial of progesterone in cannabis use disorder. Oral presentation at the 34<sup>th</sup> Annual International Cannabinoid Research Society Symposium on the Cannabinoids.
- Martin EL**, Bradshaw HB, & McRae-Clark AL. Comorbid major depressive disorder and cannabis use disorder is associated with enhanced subjective, but not objective, measures of cannabis withdrawal compared to cannabis use disorder alone. Poster presented at the College on Problems of Drug Dependence 87<sup>th</sup> Annual Scientific Meeting.
- 2024     **Martin EL**, Campbell LM, Thorn K, Sahlem GL, McRae-Clark AL, & Benitez A. Sex differences in normative modeling of cortical thickness in cannabis use disorder. Oral/poster presentation at the Specialized Centers of Research Excellence on Sex Differences 2024 Annual Meeting.
- Martin EL**, Bradshaw HB, & McRae-Clark AL. Differences in stress response in individuals with cannabis use disorder alone and comorbid cannabis use disorder and major depressive disorder. Oral presentation at the 33<sup>rd</sup> Annual International Cannabinoid Research Society Symposium on the Cannabinoids.
- Martin EL**, Upton S, Nowling B, Froeliger B, Squeglia LM, Gray KM, & McRae-Clark AL. Mesocorticolimbic activation is associated with abstinence from cannabis in a pilot trial of varenicline for cannabis use disorder. Poster presented at the College on Problems of Drug Dependence 86<sup>th</sup> Annual Scientific Meeting.
- Martin EL**, Neelon B, Saladin ME, Tomko RL, Sherman BJ, Gray KM, & McRae-Clark AL. Multiple measures of stress response differentially predict cannabis use in individuals with cannabis use disorder. Poster presented at the Society of Biological Psychiatry 2024 Annual Meeting.
- 2023     **Martin EL**, Campbell LM, Thorn K, Sahlem GL, McRae-Clark AL, & Benitez A. Sex differences in cortical thickness in cannabis use disorder. Poster presented at the College on Problems of Drug Dependence 85<sup>th</sup> Annual Scientific Meeting.

- Martin EL**, Baker NL, Sempio C, Christians U, Klawitter J, & McRae-Clark AL. Sex differences in endocannabinoid tone in cannabis use disorder and acute cannabis withdrawal. Poster presented at the Society of Biological Psychiatry 2023 Annual Meeting.
- 2022   **Martin EL**, Baker NL, Sempio C, Christians U, Klawitter J, & McRae-Clark AL. Sex differences in endocannabinoid tone in cannabis use disorder and acute cannabis withdrawal. Oral presentation at the Specialized Centers of Research Excellence on Sex Differences 2022 Annual Meeting.
- Martin EL**. Treatment for cannabis use disorder: importance of individual differences and the endocannabinoid system. Invited oral presentation for the Drugs Research Group in the Institute of Psychiatry, Psychology, and Neuroscience at King's College London.
- Martin EL** & McRae-Clark AL. Sex differences in cannabis withdrawal and the role of the endocannabinoid system. Oral presentation at the 31<sup>st</sup> Annual International Cannabinoid Research Society Symposium on the Cannabinoids.
- Martin EL**, Baker NL, Neelon B, Saladin ME, Ramakrishnan V, & McRae-Clark AL. Gender differences in antecedents of cannabis use. Oral presentation at the College on Problems of Drug Dependence 84<sup>th</sup> Annual Scientific Meeting.
- Martin EL**, Thorn K, Sahlem GL, McRae-Clark AL, & Benitez A. Sex differences in cortical thickness in cannabis use disorder. Poster presented at the Society of Biological Psychiatry 2022 Annual Meeting.
- 2021   **Martin EL**, Neelon B, Brady KT, Guille C, Baker NL, & McRae-Clark AL. Prevalence of adverse childhood experiences by primary substance used and gender. Poster presented at the Specialized Centers of Research Excellence on Sex Differences 2021 Annual Meeting.
- Martin EL**, Baker NL, Flanagan JC, Joseph JE, & McRae-Clark AL. Endogenous and exogenous oxytocin differentially impact stress response on the basis of childhood trauma exposure. Poster presented at the College on Problems of Drug Dependence 83<sup>rd</sup> Annual Scientific Meeting.
- Martin EL**, Baker NL, Froeliger B, & McRae-Clark AL. Tobacco co-use influences treatment outcomes in a pilot trial of varenicline for cannabis use disorder. Poster presented at the 30<sup>th</sup> Annual International Cannabinoid Research Society Symposium on the Cannabinoids.
- Martin EL**, Baker NL, Froeliger B, & McRae-Clark AL. Tobacco co-use affects treatment outcomes in a pilot trial of varenicline for cannabis use disorder. Oral presentation at the Society for Research on Nicotine and Tobacco 2021 Annual Meeting, part of symposium "Treatment Implications and Considerations for the Co-Use of Cannabis and Tobacco".
- 2020   **Martin EL**, Doncheck EM, Reichel CM, & McRae-Clark AL. Pharmacological interventions in stress-induced drug-seeking: efficacy across sex and species. Oral presentation at the Specialized Centers of Research Excellence on Sex Differences 2020 Annual Meeting.
- Martin EL**, Baker NL, & McRae-Clark AL. Varenicline in the treatment of cannabis use disorder: impact of tobacco use. Oral presentation at the College on Problems of Drug Dependence 82<sup>nd</sup> Annual Scientific Meeting.
- 2019   **Martin EL**, Spindle TR, Grabenauer M, Milburn MA, & Vandrey R. Assessment of impairment following oral and vaporized cannabis administration in infrequent users. Poster presented at the Carolina Cannabinoid Collaborative Annual Meeting 2019.
- Martin EL**, Schlienz NJ, Munson J, Jackson H, Bonn-Miller MO, & Vandrey R. Therapeutic cannabinoids in anxiety and depression: results from an observational research study. Poster presented at the 29<sup>th</sup> Annual International Cannabinoid Research Society Symposium on the Cannabinoids.
- Martin EL**, Schlienz NJ, Munson J, Jackson H, Bonn-Miller MO, & Vandrey R. Therapeutic cannabinoids in anxiety and depression: results from an observational research study. Oral presentation at the 2019 Cannabis Science Conference East.
- 2018   **Martin EL**, Schlienz NJ, Herrmann ES, Budney AJ, Lee DC, Hampson A, Smith M, Leoustsakos JS, Stitzer ML, & Vandrey R. Targeting sleep in adults seeking treatment for cannabis use disorder. Poster presented at the 32<sup>nd</sup> Annual Meeting of the Associated Professional Sleep Societies, LLC. Abstract published in *Sleep*, Volume 41, Supplemental Issue.

## **TEACHING & MENTORSHIP**

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### Teaching

- 2024 *Clinical Neuroscience Research*. Lecture delivered to historically disadvantaged sophomore- and junior-level high school students as part of the MUSC Upward Bound initiative.
- 2024 *Individual Differences in Cannabis Use Disorder with Implications for Endocannabinoid Modulation in Therapeutics Development*. Lecture delivered as part of College of Charleston Neuroscience course BIOL/PSYC 447.
- 2023 – 2025 *Endocannabinoids and Cannabis Use Disorder*. Lecture delivered to students in the MUSC Summer Undergraduate Research Program (SURP).
- 2021 – 2022 *Psychopharmacology: How Drugs Affect Our Thoughts, Feelings, and Behavior*. Lecture delivered to students in the MUSC Summer Undergraduate Research Program (SURP).

#### Mentorship

- 2023 Jonathan Yass – Undergraduate Intern, College of Charleston
- 2022 – 2024 Diversity in Addiction Research Training (DART) Near-Peer Mentor, MUSC
- 2019 Darren Lin – Undergraduate Intern, Johns Hopkins University
- 2018 Zachary Hyde – Undergraduate Intern, Johns Hopkins University
- 2017 – 2019 Ryan Scalsky – Undergraduate Intern, University of Maryland, Baltimore County
- 2017 Paras Dalwadi – Undergraduate Intern, University of Maryland, Baltimore County
- 2016 Omair Akmal – Undergraduate Intern, Johns Hopkins University

### **PROFESSIONAL ACTIVITIES & SERVICE**

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#### Professional Affiliations

- 2025 – Organization for the Study of Sex Differences
- 2022 – 2025 American Psychological Association (Div. 28)
- 2021 – Society of Biological Psychiatry
- 2020 – College on Problems of Drug Dependence
- 2019 – International Cannabinoid Research Society

#### Service

- 2022 – 2025 Department of Neuroscience Task Force, MUSC
- 2022 – 2023 Department of Neuroscience Graduate Student Retreat Organizing Committee, MUSC
- 2021 Trainee Research Fellowship Subcommittee, Society of Biological Psychiatry

#### Ad Hoc Reviewer

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| Addictive Behaviors                        | Molecular Neurobiology               |
| American Journal on Addictions             | Neuroscience & Biobehavioral Reviews |
| Cannabis & Cannabinoid Research            | Neuropsychopharmacology              |
| Cerebral Cortex                            | npj Mental Health Research           |
| Experimental & Clinical Psychopharmacology | Psychopharmacology                   |
| Frontiers in Psychiatry                    | Scientific Reports                   |
| Journal of Psychopharmacology              |                                      |

#### Community Engagement

- 2025 “Yes, you can get addicted to weed.” Oral presentation given as part of *From the Lab to Recovery* event hosted by MUSC Students for Sensible Drug Policy.

### **CONSULTING**

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- 2019 **Sleep Architecture Consultant**  
 Department of Psychiatry, University of Pennsylvania, Philadelphia, PA  
 PI: Marcel Bonn-Miller, Ph.D.  
 Consultant on Colorado Department of Public Health and Environment grant studying safety and efficacy of cannabis use among veterans with post-traumatic stress disorder (PTSD).

