

# Micaela V. McCall

📍 Washington DC

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## SKILLS

<b>Data Science</b>	Python (Pandas, NumPy, Scikit-learn, Matplotlib/Seaborn, & more), R (Tidyverse, various statistical packages), predictive analytics/machine learning, statistical modeling (univariate and multivariate modelling, parametric and nonparametric statistics), Git/Github, Unix/Linux, SQL
<b>Research</b>	FSL (MRI and fMRI analysis), Microsoft Suite, Prism, multidisciplinary collaboration, design of written and verbal reports, clinical communication, MATLAB,
<b>Other</b>	Spanish (proficient)

## EDUCATION

<b>Emory University</b> , <i>BS in Neuroscience and Behavioral Biology, BA in Religion</i>	<i>2014-2018</i>
• <b>Honors:</b> Highest Honors in Neuroscience Research, Phi Beta Kappa, Nu Rho Psi (National Neuroscience Honor Society), Theta Alpha Kappa (National Religious Studies Honor Society).	<i>Atlanta, GA</i>

## PROJECTS & PUBLICATIONS more at [michaelamccall.com](https://michaelamccall.com) 📄

<b>Exploring Patient Satisfaction and Readmission in Medically Underserved Areas</b> ( <a href="#">GitHub</a> )	<i>09-2019</i>
NIH Foundation for Advances Education in the Sciences, Bioinformatics and Data Science	<i>Bethesda, MD</i>
• Munged data from multiple API queries, totalling over 2400 rows, and visualized factor relationships using Python.	
<b>Using Supervised Learning to Classify Drug Consumption Behavior</b> ( <a href="#">GitHub</a> )	<i>11-2018</i>
NIH Foundation for Advances Education in the Sciences, Bioinformatics and Data Science	<i>Bethesda, MD</i>
• Trained logistic regression, random forest, and SVC models on survey data to predict drug use using Python.	
<b>Pleasant Deep Pressure: Expanding the Social Touch Hypothesis</b>	<i>09-2018</i>
National Center for Complementary and Integrative Health	<i>Bethesda, MD</i>
• Processed and statistically analyzed fMRI data using Python and FSL; created visualizations for manuscript.	
• Manuscript in preparation: by Laura K. Case, Jaquette Liljencrantz, <b>Micaela V. McCall</b> , Megan Bradson, Aaron Necaie, Justin Tubbs, Hakan Olauzon, Binqun Wang, & M. Catherine Bushnell.	
<b>Honors Thesis: Analyzing Non-verbal Behavior Throughout Recovery in a Sample of Depressed Patients Receiving Deep Brain Stimulation</b>	<i>05-2018</i>
Emory University	<i>Atlanta, GA</i>
• Designed project, collected, and analyzed behavioral data in R using factor analysis, analysis of variance, and regression.	
• Manuscript in preparation: by <b>Micaela V. McCall</b> , Patricio Riva-Posse, M.D., Helen S. Mayberg, M.D., Andrea L. Crowell, M.D.	

## CURRENT POSITION

<b>Research Analyst</b>	<i>05-2018 -</i>
National Institutes of Health, National Center for Complementary and Integrative Health	<i>Present</i>
• Facilitated patient visits, consulted with patients on study procedures and concerns	<i>Bethesda, MD</i>
• Built pipelines in R and Python for analysis of behavioral and physiological data (fMRI, autonomic)	
• Implemented experimental procedures with an eye towards data quality and bias	
• Designed data visualizations, written, and verbal reports for multidisciplinary audiences	

## PAST EXPERIENCES

### Undergraduate Neuroscience Research Honors Candidate

Emory University School of Medicine, Dept. of Psychiatry

- Earned Highest Honors in research
- Developed projects to collect and statistically examine physiological and quantitative behavioral data using R
- Presented results to diverse, technical and non-technical thesis committee

06-2017 -  
05-2018  
Atlanta, GA

### Research Assistant

Mauritian Laboratory for Experimental Anthropology

- Implemented ethnographical research methods (conducted interviews with local Mauritians, collected saliva samples during local sword-climbing rituals)
- Designed research project to explore religious syncretism

07-2016  
La Gaulette,  
Mauritius

### Undergraduate Research Assistant

Yerkes National Primate Research Center

- Collected observational social behavior of infant Rhesus macaques
- Examined macaque eye-tracking data to assess the effect of oxytocin dosing on social gaze preference

08-2015 -  
05-2017  
Atlanta, GA

## PRESENTATIONS

Laura K. Case PhD, **Micaela V. McCall**, Megan Bradson, M. Catherine Bushnell PhD. Effect of Naloxone on Touch Intensity and Pleasantness. Poster presented at American Pain Society Scientific Meeting.

04-2019  
Milwaukee, WI

**Micaela McCall**, Andrea Crowell MD, Lydia Denison BS, Patricio Riva Posse MD, Helen Mayberg MD. Non-verbal Behavior in Depression Patients Receiving Deep Brain Stimulation. Poster presented at Emory University Neuroscience and Behavioral Biology Undergraduate Research Symposium.

04-2018  
Atlanta, GA

**Micaela McCall**, Andrea Crowell MD, Helen Mayberg MD. Acute and Chronic Deep Brain Stimulation Effect on Heart Rate Variability. Poster presented at Emory University Summer Undergraduate Research Symposium.

07-2017  
Atlanta, GA

**Micaela McCall**, J. M. Brooks, T. J. Jonesteller, S. Moss, T. R. Heitz, L. A. Parr, PhD. The effect of chronic oxytocin on the gaze preferences of infant macaques. Poster presented at Emory University Fall Undergraduate Research Symposium.

08-2016  
Atlanta, GA

## TRAININGS & WORKSHOPS

Machine Learning in Python at FAES Bioinformatics and Data Science, Bethesda, MD

08-12, 2019

NVIDIA GPU Technology Conference, Washington DC

11-2019

Artificial Intelligence in Healthcare: From Prevention & Diagnostics to Treatments, Bethesda, MD

10-2019

IBM Hands-on Introduction to Machine Learning / Deep Learning Workshop, Bethesda, MD

11-2019

Maryland Neuroimaging Retreat, Baltimore, MD

04-2019

Discovery and Validation of Biomarkers to Develop Non-Addictive Therapeutics for Pain, Bethesda, MD

11-2018

## EXTRAS

### Buddhism

I am involved in the DC insight meditation community and I served as the President of the Emory Buddhist Club, hosting weekly meditations led by ordained Buddhist teachers of various traditions.

I studied abroad in India, living in the Tibetan Buddhist community in exile. There, I completed a research project on resiliency in the Tibetan community in exile, including primary source research and interviews.

### Activism

I am passionate about involvement in LGBTQ and intersectional feminist causes. I served as Conversations Chair of the Emory Feminists in Action club, designing and promoting weekly discussions on various feminist and intersectional topics, and initiating dialogues with other direct-action-focused clubs on campus.

### Mentorship

In my current position, I mentor summer interns and college students. In college, I served as a Peer Mentor in the Emory College Undergraduate Research Partners Programs, meeting one-on-one with Freshman research “partners” and designing professional development and ethics trainings with graduate mentors.