

**KATHERINE MARIE VINCENT**  
*she/her/hers*  
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## **EDUCATION**

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- Exp. 2027     PhD, Psychology  
Northeastern University  
Advisor: Laurel J. Gabard-Durnam, PhD
- 2019           Bachelor of Arts in Psychology (Highest Honors)  
Harvard University  
Honors Thesis: “The Effects of Parental Stress on Children’s  
Electroencephalography (EEG) Activity and Internalizing Behaviors”  
Advisor: Charles A. Nelson, PhD  
Co-Advisor: Wanze Xie, PhD  
Reader: Mina Cikara, PhD  
Grade: *summa cum laude*  
GPA: 3.89/4.00 (*magna cum laude*)  
Language Citation in Spanish

## **AWARDS AND HONORS**

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- 2023           International Society for Developmental Psychobiology (ISDP) Student Travel  
Award for 56<sup>th</sup> Annual Meeting  
(*\$500, I declined to accept due to inability to attend meeting*)
- 2023           National Science Foundation (NSF) Graduate Research Fellowship  
Program (GRFP), Honorable Mention (Research Statement Title: *Effects of  
Biological and Psychosocial Adversities on Developmental Timing of  
Prefrontal Cortex and Emotion*)
- 2019           Harvard Psychology Faculty Prize for Honors Thesis
- 2019           Sidney Mautz Award from Eliot House at Harvard  
*Awarded to a graduating senior who, in the judgment of the Faculty Deans of  
Eliot House, has made an extraordinary contribution to the life of the House*
- 2019           Harvard College Research Program (HCRP) funding to attend Society for  
Affective Science (SAS) Conference and present poster of  
thesis research (\$350)
- 2018           Harvard College Research Program (HCRP) summer funding for living expenses  
during thesis research (\$3500)
- 2017           Harvard College Program for Research in Science and Engineering (PRISE)  
Summer Fellowship (\$1600)

## PUBLICATIONS

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Lopez, K. L., Monachino, A. D., **Vincent, K. M.**, Peck, F. C., & Gabard-Durnam, L. J. (2023). Stability, change, and individual differences in electroencephalography measures: A lifespan perspective on progress and opportunities. *NeuroImage*. (Published under Editor in Chief Stephen Smith).

**Vincent, K. M.**, Xie, W., & Nelson, C. A. (2021). Using different methods for calculating frontal alpha asymmetry to study its development from infancy to 3 years of age in a large longitudinal sample. *Developmental Psychobiology*, 63(6), e22163.  
<https://doi.org/10.1002/dev.22163>

## PRESENTATIONS

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*\*Unable to present due to medical issue that prevented my attendance at the corresponding conferences*

**\*Vincent, K. M.**, Monachino, A. D., Underwood, E., Tao, A., Kim, I., Coffman, S., Nelson, C. A., Berde, C. B., Cornelissen, L., Hensch, T. K., & Gabard-Durnam, L. J. (Accepted). *Effects of GABA agonists on baseline frontal power features in development*. Poster presentation for Fetal, Infant, Toddler Neuroimaging Group (FIT'NG) Annual Conference 2023.

**\*Vincent, K. M.**, Monachino, A. D., Underwood, E., Tao, A., Kim, I., Coffman, S., Nelson, C. A., Berde, C. B., Cornelissen, L., Hensch, T. K., & Gabard-Durnam, L. J. (Accepted). *Effects of GABA agonists on baseline frontal power features in development*. Poster presentation for Flux Society Congress 2023.

**\*Vincent, K. M.**, Monachino, A. D., Underwood, E., Tao, A., Kim, I., Coffman, S., Nelson, C. A., Berde, C. B., Cornelissen, L., Hensch, T. K., & Gabard-Durnam, L. J. (Accepted). *Effects of GABA agonists on baseline frontal power features in development*. Oral presentation for International Society for Developmental Psychobiology (ISDP) 56<sup>th</sup> Annual Meeting (2023).

**Vincent, K. M.**, Xie, W., Wade, M., & Nelson, C. A. (March 2019). *The effects of parental stress on children's baseline electroencephalography alpha activity and internalizing behaviors*. Poster presentation at Society for Affective Science (SAS) Conference, Boston, MA.

**Vincent, K. M.** (August 2017). *Physiological response to emotions in infants: Examining galvanic skin responses to angry, happy, and fearful faces to explore the development of emotion processing in the first year of life*. Oral presentation to Harvard College Program for Research in Science and Engineering (PRISE) Summer Fellows.

## RESEARCH EXPERIENCE

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### **Plasticity in Neurodevelopment (PINE) Lab**

Effects of General Anesthesia on Infant Brain and Cognitive Development (“General Anesthesia and Brain Activity (GABA) Project”)

Socioemotional Experience-Expectant Development (“Project PINE SEED”)

Northeastern University, Department of Psychology

Center for Cognitive and Brain Health (CCBH)

*PI:* Laurel J. Gabard-Durnam, PhD

*PhD Student*

September 2022–present

- Conduct longitudinal data analysis examining the associations among parenting stress, infant/child baseline EEG power measures, and child socioemotional behaviors across the first 2 years of life in children exposed to general anesthesia (GABA agonists) and unexposed comparison children
- Collaborate on conceptualization and design of longitudinal project examining socioemotional experience-expectant development across the first 2 years of life, including selection of measures and editing of REDCap questionnaires

### **Laboratories of Cognitive Neuroscience (LCN), Nelson Lab**

Neurophysiological and Metabolic Risk Markers of Child Anxiety (“Emotion Project”)

Boston Children’s Hospital and Harvard Medical School

*PIs:* Charles A. Nelson, PhD and Michelle Bosquet Enlow, PhD

*Research Project Coordinator*

August 2020–May 2021

- Coordinated the Emotion Project, a large-scale longitudinal study ( $N = 807$ ) examining the development of facial emotion processing and precursors to anxiety in infancy and childhood
- Supervised team (~5 members) of undergraduates and full-time research assistants
- Managed organization and analysis of EEG, event-related potentials (ERP), functional near-infrared spectroscopy (fNIRS), physiological (cardiac, respiratory), and behavioral (eye-tracking, theory of mind, inhibitory control, behavioral inhibition, executive function) data
- Executed IRB protocol management and grant renewal
- Continued Research Assistant responsibilities

*Research Assistant*

June 2019–July 2020

- Led study visits and administered EEG, fNIRS, physiological, and behavioral testing to children ages 3 to 7
- Processed EEG, ERP, physiological, and behavioral data
- Administered the Diagnostic Infant and Preschool Assessment (DIPA) and Structured Clinical Interview for DSM-5 (SCID-5) to mothers in the study
- Executed project administration tasks, such as scheduling study visits, instituting quality control measures for data collection, and designing study visit tasks
- Attended and occasionally led monthly journal club on emotion processing

*Undergraduate Student Intern*

February 2017–May 2019

- Completed data entry, video coding of behavioral data (inhibitory control), and cleaning of survey data on the Emotion Project
- Conducted thesis research examining the longitudinal effects of parental stress on 3-year-old children’s internalizing symptoms, mediated by baseline EEG alpha power and asymmetry
- Participated in introductory class on MATLAB and summer lecture series on brain/child development
- Executed independent project analyzing infants’ galvanic skin responses to facial emotion expressions
- Attended and occasionally led monthly journal club on emotion processing

**LEADERSHIP AND MENTORING EXPERIENCE**

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**Northeastern Psychology Graduate Student Mentoring Program (GSMP)**

*Mentor*

February 2023–present

- Offer one-on-one mentorship to undergraduates interested in pursuing a psychology PhD
- Give presentation on preparing for PhD program interviews

**Center for Cognitive and Brain Health (CCBH) Area Meetings**

November 2022–present

*Organizer*

- Coordinate semesterly in-person/Zoom hybrid talk series of six internal and external psychology/neuroscience professors

**Northeastern University Community Liaisons for Education Using STEM (NUCLEUS)**

*Member*

August 2022–present

- Serve as volunteer during ~3–5 field trips and expos per calendar year for elementary, middle, and high school students; help students participate in STEM activities such as designing and assembling contraptions for an egg drop activity, building catapults, and constructing a neuron
- Teach students about EEG through in-person instruction and creation of video ([tinyurl.com/learnabouteeeg](https://tinyurl.com/learnabouteeeg))
- Deliver personal “Journey in STEM” presentation to high school students and answer questions about topics such as psychology/neuroscience, STEM careers, and higher education

**Psychin’ Out Mentorship Program**

*Mentor*

June 2022–March 2023

- Mentor underrepresented students applying to psychology PhD programs
- Meet biweekly/monthly to review application materials and monitor progress

**Harvard Psychology Undergraduate Planning Committee**

*Student Representative*

October 2017–May 2019

- Served on panels to discuss academic experiences in psychology (such as working in a lab and writing a thesis), answered questions, and provided advice to peers

## TEACHING EXPERIENCE

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### **Ringle** (*online English tutoring service*)

*Tutor*

January 2022–July 2022

- Taught 20- and 40-minute one-on-one Zoom lessons on various topics to adult and child English language learners
- Provided grammar, vocabulary, pronunciation, and fluency corrections on students' speaking and written materials
- Conducted mock interviews, including with PhD applicants, and provided advice on the PhD application process
- Created feedback reports with specific suggestions for language improvement after each lesson

## ADDITIONAL EDUCATION EXPERIENCE

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2022

Coursera

Data Analysis with R Programming

Share Data Through the Art of Visualization

2020

Harvard Extension School

Statistics E-80: Basic Probability Using R (Grade: A)

Statistics E-150: Intermediate Statistics: Methods and Modeling (Grade: A)

## RESEARCH AND PROGRAMMING SKILLS

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Neuroimaging: NetStation, EEGLAB

Physiology: Vivosense, AcqKnowledge

Statistical Packages: SPSS, R, familiarity with Mplus and MATLAB

Clinical Interviewing: DIPA, SCID-5

Data Management: REDCap

## REFERENCES

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Dr. Laurel J. Gabarad-Durnam, Assistant Professor  
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Dr. Charles A. Nelson, Professor  
charles.nelson@childrens.harvard.edu

Dr. Michelle Bosquet Enlow, Professor  
michelle.bosquet@childrens.harvard.edu

Dr. Wanze Xie, Assistant Professor  
wanze.xie@pku.edu.cn

Dr. Mina Cikara, Professor  
mcikara@fas.harvard.edu