

Ellie Bean Abrams

PHD STUDENT · PSYCHOLOGY, COGNITION AND PERCEPTION

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Education

New York University

PH.D, PSYCHOLOGY (COGNITION AND PERCEPTION)

- Advisors: Pablo Ripollés and David Poeppel
- GPA: 4.0/4.0

New York, NY

September 2020 - present

Pomona College

BA, LINGUISTICS AND COGNITIVE SCIENCE, MUSIC MINOR

- Advisor: Deborah Burke
- GPA: 3.8/4.0
- Undergraduate Honors Thesis: The Effect of Music Expertise on Executive Function in Older Adults

Claremont, CA

2013 - 2017

Awards, Fellowships, & Grants

2022 **NSF GRFP Honorable Mention**, National Science Foundation

2020 **Henry M. MacCracken Fellowship**, New York University

2014 - 2017 **Pomona College Scholar**, Pomona College

2017 **Cecil H. Short Memorial Prize in Music** Pomona College, Department of Music

2017 **Cognitive Science Thesis Distinction**, Pomona College

2016 **Pomona College Internship Program**, Pomona College

Publications

PUBLISHED

Pelofi, C., Goldstein, M., Bevilacqua, D., McPhee, M., **Abrams, E.B.**, & Ripollés, P. (2021). CHILLER: a Computer Human Interface for the Live Labeling of Emotional Responses. In *NIME 2021*. DOI: 10.21428/92fbeb44.5da1ca0b

UNDER REVIEW

Abrams, E.B., Poeppel, D., & Ripollés, P. (2022). The rewards of Muzak: elevator music as a tool for the quantitative characterization of emotion and preference.

Abrams, E.B., Vidal, E. M., Pelofi, C., & Ripollés, P. (2022). Retrieving musical information from neural data: how cognitive features enrich acoustic ones.

IN PREP

Abrams, E.B., Gwilliams, L., Lang, B., & Marantz, A. Pitch, timbre, and the strings of perceptual experience.

Presentations

INVITED TALKS

Abrams, E.B. (April 2021). *The search for control musical stimuli: an elevator pitch*. Music Cognition Lab, Princeton University. Princeton, NJ (presented remotely).

SLIDE PRESENTATIONS

Abrams, E.B., Vidal, E.B. M., Pelofi, C., & Ripollés, P. (August, 2022). The rewards of Muzak: elevator music as a tool for the quantitative characterization of emotion and preference. Presentation at the Society for Music Perception and Cognition, Portland, OR.

Abrams, E.B., Gwilliams, L., Lang, B., & Marantz, A. (August, 2019). Tracking the building blocks of pitch perception in auditory cortex. Presentation at the Society for Music Perception and Cognition, New York, NY.

POSTER PRESENTATIONS

Pelofi, C., Goldstein, M., Bevilacqua, D., McPhee, M., **Abrams, E.B.**, & Ripollés, P. (2021). CHILLER: a Computer Human Interface for the Live Labeling of Emotional Responses. Poster presented at the *16th International Conference on Music Perception and Cognition (ICMPC-ESCOM2021)*, held virtually due to COVID-19.

Hauptman, M., **Abrams, E.B.**, Phillips, S., Parrish, A., Geguera, R., & Pykkänen, L. (2020, October). Investigating the spatiotemporal dynamics of speech production in children. Poster presented at the *12th Annual Meeting of the Society for the Neurobiology of Language*, held virtually due to COVID-19.

Parrish, A., **Abrams, E.B.**, Phillips, S., & Pykkänen, L. (2020, October). Processing speech in- and out-of-context. Poster presented at the *Society for the Neurobiology of Language*, held virtually due to COVID-19.

Phillips, S., **Abrams, E.B.**, Parrish, A., Geguera, R., Hauptman, M., & Pykkänen, L. (2020, October). Evaluating laterality of spoken word recognition and basic composition in adults and children with MEG. Poster presented at the *Society for the Neurobiology of Language*, held virtually due to COVID-19.

Tulling, M., Matar, S., **Abrams, E.B.**, Geguera, R., Hauptman, M., Parrish, A., Phillips, S., & Pykkänen, L. (2020, October). Naturalistic expository discourse processing in school-aged children and adults. Poster presented at the *12th Annual Meeting of the Society for the Neurobiology of Language*, held virtually due to COVID-19.

Abrams, E.B., Gwilliams, L., Lang, B., & Marantz, A. (2019, October). Tracking the building blocks of pitch perception in auditory cortex. Dynamic poster presented at the *Society for Neuroscience*, Chicago, IL.

Abrams, E.B., Gwilliams, L., Lang, B., & Marantz, A. (2019, August). Tracking the building blocks of domain-general processes supporting vowel perception. Poster presented at the *Society for the Neurobiology of Language*, Helsinki, Finland.

Abrams, E.B., Gwilliams, L., Lang, B., & Marantz, A. (2019, May). Tracking the building blocks of pitch perception in auditory cortex. Poster presented at *UMass Amherst Language and Music Workshop*, Amherst, MA.

Teaching Experience

2022	Teaching Assistant , Lab in Personality and Social Psychology, Undergraduate	NYU
2022	Guest Lecturer , Introduction to Psychology, Undergraduate	NYU
2022	Grader , Introduction to Psychology, Undergraduate	NYU
2021	Teaching Assistant , Cognitive Neuroscience, Undergraduate	NYU

Research Experience

Neuroscience of Language Lab, New York University

New York, NY

PRINCIPAL INVESTIGATORS: LIINA PYLKKÄNEN AND ALEC MARANTZ

June 2017–February 2020

- Conducted research on the neural correlates of musical pitch and the development of linguistic processing in the child brain.
- Spearheaded the expansion of research protocol to include children in NYC public schools and patients from NYU Langone's Epilepsy Center.
- Assisted principal investigators with NSF and international grant writing, budgeting, and reporting; maintained IRB protocols.
- Developed efficient documentation of lab procedures, MEG lab training, and analysis tutorials.

Language Acquisition and Sound Recognition Lab, UCSD

San Diego, CA

PRINCIPAL INVESTIGATOR: SARAH CREEL

June–August 2016

- Summer internship in child auditory perceptual development and language research.
- Mastered the operation of a high-precision remote eye tracker and the use of sound-editing software to record and edit experimental materials.
- Directed project logistics by recruiting subjects, organizing and synthesizing data, and training new lab assistants.

Claremont Project on Memory and Aging, Pomona College

PRINCIPAL INVESTIGATOR: DEBORAH BURKE

Claremont, CA

February 2015–May 2016

- Designed and conducted behavioral studies on tip-of-the-tongue phenomenon in older adults.
- Analyzed data using R, SPSS; prepared literature reviews and presented novel results.

Skills & Professional Development

VOLUNTEER WORK

Diversity, Equity, & Inclusion Chair

NYU

COGNITION & PERCEPTION, DEPARTMENT OF PSYCHOLOGY

Fall 2021–present

- Member of student board committee which shapes programming related to diversity issues, undergraduate workshops, and faculty mentoring.

ARISE Mentor

NYU

RIPOLLÉS LAB

Summer 2021

- Mentor within the ARISE (Applied Research Innovations in Science and Engineering) Program to two high school interns.

DEVELOPMENT

Language, Music, and Cognition: Organizing Events in Time, (2018, February). Workshop at the University of Cologne, Cologne, Germany.

SKILLS

advanced **python, MATLAB, R, OTree**
proficient **Praat, PsychoPy, Qualtrics**
competent **Java, HTML**