

Gabrielle N. Akcelik - Curriculum Vitae

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EDUCATION

The University of Chicago (Chicago, IL)

PhD, Psychology, Expected July 2024

Dissertation: A City Slicker's Guide to Environmental Preference: Understanding Urban Aesthetics Through the Lens of Prospect-Refuge Theory

Committee: Marc Berman, PhD; Monica Rosenberg, PhD, Wilma Bainbridge, PhD; Kim Lewis Meidenbauer, PhD

The University of Chicago (Chicago, IL)

MA, Psychology, June 2022

Thesis: Prospect-Refuge Theory & Aesthetic Preference in Urban Environments

Committee: Marc Berman, PhD; Monica Rosenberg, PhD, Wilma Bainbridge, PhD

Relevant Coursework: Experimental Design I, Experimental Design II, Business Statistics, Cellular Neuroscience, Behavioral Neuroscience, Environmental Neuroscience, Computer Science with Applications I, Computer Science with Applications II, Human Memory

Brooklyn College (Brooklyn, NY)

BS, Psychology; Double Minor in Neuroscience & Music Technology, May 2018

Senior Thesis: The neural bases of relative predictive validity using a novel single-unit behavioral procedure

Advisor: Guillermo Esber, PhD

Relevant Coursework: Statistical Methods in Psychology Research, Experimental Psychology, Behavioral Neuroscience, Behavioral Neuroendocrinology, Learning, Cognitive Psychology, Cognitive Development, Human Neuropsychology, Social Psychology, Abnormal Psychology, Building Electronic Instruments, Electroacoustic Music I, Electroacoustic Music II, Latine Diasporas in the US

RESEARCH EXPERIENCE

Environmental Neuroscience Lab - The University of Chicago (Chicago, IL)

Graduate Research Scientist, July 2018-Present

- Analyze data and create visualizations, uncovering key aesthetic factors influencing user preferences for urban environments; Applied R, Python, frequentist & bayesian statistical analyses, semantic scene segmentation, and image analysis.
- Designed and executed online surveys and experiments via MTurk, Qualtrics, and Google Forms to gather user data and insights.
- Published book chapter; Co-authored 5 academic journal articles (i.e., American Psychologist, Journal of Urban Design).

Brooklyn Neurobiology of Learning Lab - Brooklyn College (Brooklyn, NY)

Undergraduate Research Assistant, August 2016 - August 2018

- Aided in the start up of the Brooklyn Neurobiology of Learning Lab; constructed 16 conditioning boxes, aided in the construction and programming of Arduino sound stimuli and solenoid system to generate various odor stimuli, aided in the construction of electrodes and 3D printing of electrode caps for electrophysiology, and assisted in rat colony & histology room maintenance.
- Executed pilot studies on a novel behavioral approach to measure predictive learning in 8 male and 8 female Long Evans rats, titled the *Self-Initiated Conditioned Magazine Approach* (SICMA). Communicated findings via a written senior thesis and gave a poster presentation at Brooklyn College's Annual Science Day.
- Conducted a literature review on behavioral and clinical studies of Attention Deficit Hyperactivity Disorder (ADHD) focusing on the Spontaneously Hypertensive rat as the animal model of interest.

Environmental Neuroscience Lab - The University of Chicago (Chicago, IL)

Undergraduate Research Assistant, June 2017 - August 2017

- Designed and executed quantitative studies on the interaction between socioeconomic status and the presence of differentially susceptible genes on brain morphology using the Pediatric Imagine Neurocognitive Genetics (PING) data repository.
- Communicated findings via written and oral presentation at the Chicago Research Symposium, the Leadership Alliance symposium and the Annual Biomedical Research Conference for Minority Students.

Princeton Baby Lab - Princeton University (Princeton, NJ)

Undergraduate Research Assistant, June 2016 - August 2016

- Analyzed and visualized pre-collected infant eye-tracking data to examine the audiovisual integration ability of preterm children in comparison to full-term children at 18 months old using R.
- Communicated findings via written and oral presentation at the Princeton SR-EIP Research symposium, the Leadership Alliance symposium and the Annual Biomedical Research Conference for Minority Students.

The Ober Lab - The University of Chicago (Chicago, IL)

Undergraduate Research Assistant, June 2015 - August 2015

- Composed a literature review on asthma-associated genes differentially expressed in human airway smooth muscle cells to IL-13 and IL-17 for genetic predisposition to asthma.
- Designed primers for genes of interest and housekeeping genes used in study; Prepared agar gel to validate primers
- Ran qPCR using the designed primers and visualized results using R.
- Communicated findings via written and oral presentation at the Chicago Research Symposium, the Leadership Alliance symposium and the Annual Biomedical Research Conference for Minority Students.

PUBLICATIONS

Akcelik, G. N., Choe, K. W., Zheng, T., Schertz, K. E., Meidenbauer, K. L., Rosenberg, M.D., Talen, E., Berman, M.G. (*in review*). Quantifying Urban Environments: Aesthetic Preference Through the Lens of Prospect-Refuge Theory.

Talen, E., Choe, K. W., **Akcelik, G. N.**, Meidenbauer, K. L., & Berman, M.G. (2022). Street Design Preference: An On-line Survey. *Journal of Urban Design*. Routledge, Taylor & Francis Group.

Akcelik, G. N., Schertz, K. E., & Berman, M. G. (2022). The Influence of Low-and Mid-Level Visual Features on the Perception of Streetscape Qualities. In *Human Perception of Visual Information* (pp. 241-262). Springer, Cham.

Moore, T. M., Kaczurkin, A. N., Durham, E. L., Jeong, H. J., McDowell, M. G., Dupont, R. M., Applegate, B., Tackett, J. L., Cardenas-Iniguez, C., Kardan, O., **Akcelik, G. N.**, Stier, A. J., Rosenberg, M. D., Hedeker, D., Berman, M. G., & Lahey, B. B. (2020). Criterion validity and relationships between alternative hierarchical dimensional models of general and specific psychopathology. *Journal of Abnormal Psychology*, 129(7), 677–688.

Berman M. G., Stier A. J., **Akcelik G. N.** (2019) *Environmental neuroscience*. *American Psychologist* 74:1039–52.

Lahey, B. B., Kaczurkin, A. N., Tong, L., Pierce, B., Hedeker, D., Cardenas-Iniguez, C., **Akcelik, G. N.**, Zhang, X., Moore, T. M., Applegate, B., Tiemeier, H., Berman, M. G. (*in progress*). Associations of a Polygenic Risk Score for Attention-Deficit/Hyperactivity Disorder with General and Specific Dimensions of Psychological Problems during Late Childhood: Evidence of Mediation by Executive Functions and Impulsivity.

CONFERENCE PRESENTATIONS

Akcelik GN, Shur A, Reverte-Soler I, Esber GR. *Absolute vs Relative Validity: A Novel Behavioral Approach to Measure Predictive Learning*. CUNY Brooklyn College Annual Science Day, Brooklyn, NY. 2018. Poster Presentation.

Akcelik GN, Cardenas-Iniguez C, Berman MG. *The Influence of Genetic Plasticity and Socioeconomic Status on Brain Morphology*. ABRCMS, Phoenix, AZ. 2017. Oral Presentation.

Akcelik GN, Cardenas-Iniguez C, Berman MG. *The Influence of Genetic Plasticity and Socioeconomic Status on Brain Morphology*. SREIP Leadership Alliance at The University of Chicago, Chicago, IL. 2017. Oral Presentation.

Akcelik GN, Cardenas-Iniguez C, Berman MG. *The Influence of Genetic Plasticity and Socioeconomic Status on Brain Morphology*. Chicago Research Symposia at The University of Chicago, Chicago, IL. 2017. Oral Presentation.

Akcelik GN, Emberson L. *Integration of Audiovisual Information in Preterm Infants vs Full-Term infants*. CUNY Brooklyn College Annual Science Day, Brooklyn, NY. 2016. Poster Presentation.

Akcelik GN, Emberson L. *Integration of Audiovisual Information in Preterm Infants vs Full-Term infants*. ABRCMS, Tampa, FL. 2016. Poster Presentation.

Akcelik GN, Emberson L. *Integration of Audiovisual Information in Preterm Infants vs Full-Term infants*. Princeton Summer Undergraduate Research Experience, Princeton, NJ. 2016. Oral Presentation.

Akcelik GN, Ober C, Thompson EE. *qPCR validation of asthma-associated genes differentially expressed in airway smooth muscle cells in response to IL-13 and IL-17*. ABRCMS, Seattle, WA. 2015. Poster Presentation.

Akcelik GN, Ober C, Thompson EE. *qPCR validation of asthma-associated genes differentially expressed in airway smooth muscle cells in response to IL-13 and IL-17*. SREIP Leadership Alliance at The University of Chicago, Chicago, IL. 2015. Oral Presentation.

Akcelik GN, Ober C, Thompson EE. *qPCR validation of asthma-associated genes differentially expressed in airway smooth muscle cells in response to IL-13 and IL-17*. Chicago Research Symposia at The University of Chicago, Chicago, IL. 2015. Oral Presentation

HONORS & AWARDS

National Science Foundation Graduate Research Fellowship Program Honorable Mention, 2019

National Institute of Health Maximizing Access to Research Careers (MARC) Scholar, 2016 – 2018

Brooklyn College - Dean's List, 2018

Bill '56 and Louise '52 McDermott Scholarship Recipient, 2017

Brooklyn College Foundation General Scholarships Fund, 2016

National Institute of Health Research Initiative for Scientific Enhancement (RISE) Scholar, 2014 – 2016

TEACHING EXPERIENCE

The University of Chicago (Chicago, IL)

Graduate Lecturer; SOSOC 14100 - Mind I: How the Mind Constructs Reality; 2021

- Created syllabus around weekly topics and readings in provided by course organizers, which detailed topics of discussion, assigned readings, papers, and extra credit opportunities
- Facilitated in-class discussions of assigned weekly topics spanning quantitative and qualitative primary research articles; Instructed students in the proper execution of quantitative and qualitative research relating to weekly readings

- Graded student performance based on homework assignments, the final paper, class participation, attendance, and extra credit assignments; held office hours to aid student questions and concerns pertaining to the course

The University of Chicago (Chicago, IL)

Teaching Assistant; SOSC 14100, 14100, 14200, 14300: Mind I, II & III; 2020 - 2021

- Aided instructor with the development of course syllabus and assignment structure, as well as aided in facilitating discussion of weekly topics to 50+ undergraduate students taking the course remotely; Co-led an additional, remote, nighttime discussion section for international students
- Graded weekly assignments, and held weekly office hours to aid undergraduate students in their performance in the course

The University of Chicago (Chicago, IL)

Co-Teacher/Teaching Intern; PSYC 25790: Psychology of Race, Ethnicity, and Social Class: Perspectives and Impact; 2019 - 2020

- Designed and implemented weekly quizzes and lab reports, and kept track of attendance and participation
- Facilitated group discussions and synthesis of course content along with clarification of course content via live interactive presentations, lab activities and readings; Held weekly office hours and provided multiple opportunities for online discussions/Q&A sessions amongst students.

Sonic Arts for All! - Non Profit (Brooklyn, NY)

Teaching Intern, 2017-2018

- Instructed children K-12 from a variety of different socioeconomic and ability backgrounds on how to navigate a digital audio workstation in addition to the instruction of audio engineering skills involving the creation, composition and subsequent live performance of electronic music using iPad applications and MIDI controllers.

SKILLS

- Skills: Research & Survey Design, Qualitative & Quantitative Methods, Usability Testing, Data Analysis Project Management, Collaboration & Communication (Oral, Written, Interpersonal)
- Technical: Python, R, Google & Microsoft Suites (PowerPoint, Excel, Word), Amazon Mechanical Turk, Amazon Web Services, Qualtrics, Cloud Research, Adobe & Canva (Graphic Design), Data Visualization
- Languages: English (native), Turkish (fluent), Spanish (working proficiency)

CERTIFICATIONS & ADDITIONAL TRAINING

- Social & Behavioral Responsible Conduct of Research (CITI)
- Introduction to Python (DataCamp)
- Intermediate Python (DataCamp)
- Data Analysis with Python (IBM)
- Data Visualization with Python (IBM)
- Python for Data Science & AI (IBM)

PROFESSIONAL SOCIETIES & ORGANIZATIONS

Association of Psychological Science
International Game Developers Association
Sigma Xi – Scientific Research Honor Society

SERVICE

- LGBTQ+ Peer Advisor, Center for Identity + Inclusion, The University of Chicago, Chicago, IL, 2021

- Board Member, Psychology Graduate Student Organization - Social Committee, The University of Chicago, Chicago, IL, 2021 - 2022
- President, Psychology Graduate Student Organization - Diversity & Inclusion Committee, The University of Chicago, Chicago, IL, 2020 - 2021
- Board Member, Psychology Graduate Student Organization - Diversity & Inclusion Committee, The University of Chicago, Chicago, IL, 2018 - 2022
- Board Member, Honors Academy Advisory Board, Brooklyn College, Brooklyn, NY, 2017 - 2018
- Event Coordinator, Treehaus Booking Collective, Brooklyn, NY, 2017 - 2018
- Panelist, Undergraduate Externships Panel - STEM Careers Conference, Brooklyn College, Brooklyn, NY, 2017
- Volunteer Musical Performer, Sparks of Life Program, New York-Presbyterian: Brooklyn Methodist Hospital, Brooklyn, NY, 2016
- Canvasser, Town of Babylon Democratic Committee, Lindenhurst, NY, 2013 - 2014

ADDITIONAL WORK EXPERIENCE

New Daydream Media, (Remote - Chicago, IL)

Co-Owner & CEO, 2021 - Present

- Delegate tasks to artist relations and digital media teams; Utilized Google Workspace apps to optimize project management.
- Conduct surveys to grasp musician pain-points regarding record labels and inform our own client communication and relations; Design user interface using Figma for an in-development social media application aimed to increase musicians' social networks.
- Collaborate to compose, perform, and record original music; Submit deliverables to mechanical/sync licensing distributors.
- Manage logistics and schedules for live events, liaising between parties involved.
- Create short- and long-form content using CapCut, Adobe Photoshop & Premiere and Canva for social media platforms such as Instagram, Tiktok, and YouTube shorts for bands and musicians local to Chicago.

Self-Employed, (Remote - Chicago, IL)

Freelance Audio Engineer, 2021 - Present

- Produced, edited, mixed and mastered tracks supplied by musicians local to Chicago utilizing Logic Pro, iZotope Production Suite and additional industry standard software for audio engineering (i.e. FabFilter, Waves, SSL).

Vans, (Chicago, IL)

Seasonal Retail Sales Associate, 2020

- Collaborated with sales team to ensure product availability to the customer and to achieve sales objectives set by management
- Delivered high quality customer service using product knowledge and interpersonal skills

Guitar Center, (Brooklyn, NY)

Operations Associate, 2016

- Aided in theft prevention, stock inventory, and floor surveillance.
- Assisted with general inquiries about store merchandise and services provided by the store

EXTRACURRICULAR ACTIVITIES

Lead Vocalist, Producer, Audio Engineer, & Composer for post-hardcore band *killmoves*, Chicago, IL, 2023 - Present.
 Live Event Photographer for musicians and bands performing at local venues, Chicago, IL, 2023 - Present.

Lead Vocalist, Producer, Audio Engineer, & Composer for indie-alternative rock band *Archer Violet*, Chicago, IL & Brooklyn, NY, 2016-2022.