

Colin E. McGregor

Personal Information

501 Saint Paul St.
Apt 603
Baltimore, MD 21202-2247

734-767-8996

colinmcgregor@jhmi.edu

Visit my website at: www.colinmcgregor.net

Education

- Johns Hopkins University (2020): B.A. in Cognitive Science, minor in Psychology – Baltimore, MD
- Diploma from The Juilliard School's Pre-College program (2016): major in Violin Performance – New York, NY
- High school diploma (Pennsylvania Leadership Charter School University Scholars Program) – West Chester, PA

Previous and Current Research Appointments

Johns Hopkins Medical Institute Center for Music and Medicine

- 2017 – present
- Worked on “Guitar-PD”, a project that taught 24 people with moderate to advanced Parkinson's Disease to play guitar; PIs: Alexander Pantelyat, M.D. and Serap Bastepe-Gray, M.D.
- Administered tests/questionnaires; analyzed data and found that the participants significantly improved in quality of life and upper extremity function
 - Paper to be published in 2020; will be listed as co-author
- Currently working on
 - "Drum-PDHD" – a similar project to what is mentioned above except it is ongoing, involves eight participants (five with Parkinson's Disease and 3 with Huntington's Disease) and their spouses, and utilizes drumming/percussion instead of guitar playing
 - Paper to be published in 2020 or 2021; will be listed as co-author
 - MedRhythms PD, “MR-005” – a study designed to test a device that uses music to improve gait and walking speed in PD patients
 - “4RTNI-2” – 4-Repeat Tauopathy Neuroimaging Initiative – a longitudinal study sponsored by University of California San Francisco that aims to collect data on both PD patients and age-equivalent healthy control subjects
 - Longitudinal Biomarkers of Atypical Parkinsonian Disorders: a study of patients with Progressive Supranuclear Palsy that is attempting to determine if certain

cognitive and physical differences between patients can distinguish between various types of PSP.

Johns Hopkins Department of Psychological and Brain Sciences

- 2019
- Research assistant in 2 studies
 - One aims to examine how couples in long-distance and in-person relationships communicate and describe one another in terms of linguistic concreteness
 - The other aims to try to establish a correlation between linguistic concreteness in partner description and the way the partner is presented to a participant (via a picture, their name, or just the term “my romantic partner”)

List of Research Skills

Trained in administering:

- World Health Organization Disability Assessment Schedule (WHODAS)
- Disabilities of the Arm, Shoulder and Hand assessment (QuickDASH)
- Purdue Pegboard Test
- Box and Blocks Test
- Montreal Cognitive Assessment (MoCA)

Additional skills:

- Basic MATLAB
- Basic R
- Familiarity with Linguistic Category Model (LCM) and Linguistic Inquiry and Word Count (LIWC)
- Experience writing IRB proposals and drafting consent forms

Extracurricular Activities/Leadership

Steinway Series at Silo Hill – Director of Social Media Outreach

- Youngest member ever elected to board; one-year volunteer before being elected
- In charge of all social media and public relations
- Assisted in organizing 10 classical music performances, each of which raises around \$1000 to fund Parkinson’s Disease research

Camp Kesem -- Development coordinator and counselor

- Provides free summer camp for 70+ kids whose parents have cancer
- Successfully raises more than \$50,000 as an organization annually

Johns Hopkins Admissions – Public Relations Assistant

- Executive member (earned volunteering 100 hours in a single school year) of the Johns Hopkins undergraduate admissions volunteers
- Gave 100+ tours of campus over 2.5 years and co-led 20+ prospective family info sessions

Johns Hopkins Orientation – Social Programs Coordinator

- Worked on a team of 10 people (5 undergraduate, 3 graduate, 2 professional) to plan the New Student Orientation for incoming 1500 students

- Planned 8 social events ranging from 50-person ice cream socials to campus-wide festivals

List of Important Classes Taken

At Johns Hopkins:

Cognitive Neuroscience; Introduction to Neuroscience; Introduction to Psychology; Music Theory II and III; Cognitive Neuropsychology of Visual Perception; Social Psychology; Decisions, Games & Social Choice; Neurobiology of Human Cognition; Mind, Brain, and Experience; Research Methods in Experimental Psychology

At Juilliard Pre-College:

All levels of Music Theory and Ear Training, Period Counterpoint, Advanced Socratic Music Seminar I and II, Psychological Skills of Top Performers, 6 years of Chamber Music

Other Interests & Skills

- Skills: social media development and expansion, WordPress, basic HTML/web management, public relations, public speaking, writing (scientific and creative)
- Music:
 - Winner of Hopkins Symphony Orchestra bi-annual concerto competition – performed Mendelssohn’s Violin Concerto in E Minor, Op. 64, in its entirety as a soloist
 - 19 years’ experience playing violin
 - knowledgeable in advanced music theory and counterpoint
- Interests: music theory of popular songs, license plate collecting/archiving, interior design, songwriting/guitar, road tripping in rural Michigan and Colorado

References

Alexander Pantelyat, M.D.

Director, Johns Hopkins Medicine Atypical Parkinsonism Center
Assistant Professor of Neurology

601 N. Caroline St.
Baltimore, MD 21287
apantel1@jhmi.edu

Diane Lanham, M.A.

Lab Manager, Johns Hopkins Medicine Atypical Parkinsonism Center

601 N. Caroline St.
Baltimore, MD 21287
dlanham1@jhmi.edu

Travis Hardaway, DMA

Former Assistant Professor of Music Theory, Peabody at Johns Hopkins Homewood

1 E Mount Vernon Pl.
Baltimore, MD 21202
travis.hardaway@gmail.com