

# Colin E. McGregor

## Personal Information

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Visit my website at: [www.colinmcgregor.net](http://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

### **Roswell Park Comprehensive Cancer Center**

2022 – Present

- Manager of 20-30 active patients and 60-70 on follow-up
- Ran 13 protocols
  - Successfully opened 3 pharmaceutical-sponsored trials and ran 7 others, including phase 1
  - Managed high-accruing IIT trial w/dose escalation and several National Cooperative Group studies
- Knowledgeable in multiple EDCs, ICF procedures, EMRs, drug portals, and other clinical trial procedures
- Worked with 5 sponsors for routine monitor visits; managed local data entry team

### **Johns Hopkins Medical Institute Center for Music and Medicine**

2017 – 2022

- 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 published 6/25/2022

- MedRhythms PD, “MR-005” – a study designed to test a device that uses music to improve gait and walking speed in PD patients
  - Paper expected 2024
- “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, Trail-Making Test
- Montreal Cognitive Assessment (MoCA)
- Hopkins Verbal Learning Test (HVLT)
- Hamilton Depression/Anxiety Scales, Clinical Dementia Rating

### Additional skills:

- Basic MATLAB/R/HTML/CSS
- ICF, EDC, EMR, CRMS, Regulatory, SAP experience

## Publications

Bastepe-Gray S, Wainwright L, Lanham DC, Gomez G, Kim JS, Forshee Z, Kaas B, McCoy A, McGregor C, Moukheiber E, Rajan S, Suarez-Cedeno G, Wang J, Brennan S, Coughlin S, Kang K, Pantelyat A. **GuitarPD: A Randomized Pilot Study on the Impact of Nontraditional Guitar Instruction on Functional Movement and Well-Being in Parkinson's Disease.** *Parkinsons Dis.* 2022 Jun 25;2022:1061045. doi: 10.1155/2022/1061045. PMID: 35795456; PMCID: PMC9252755.

## Leadership

### Steinway Series at Silo Hill – Director of Social Media Outreach

2018 - Present

- Youngest member ever elected to board; one-year volunteer before being elected
- Liaison for Parkinson's disease research and funding opportunities
- Assisted in organizing 22 classical music performances, each of which raises around \$1000-3000 to fund Parkinson's Disease research

## 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

### **Prantesh Jain, M.D.**

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### **Jennifer Cox, PhD**

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### **Travis Hardaway, DMA**

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

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