

Brooklyn Crabtree
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EDUCATION

University of Georgia, Athens, GA Expected May 2026
Neuroscience PhD Program, Kinesiology Department
Doctoral Student

Georgia Institute of Technology, Atlanta, GA December 2020
Bachelor of Science, Neuroscience; GPA: 3.63
Graduated Highest Honors (equivalent to *summa cum laude*)
Psychology Minor and Undergraduate Research Option
Undergraduate Thesis: *Representing the Effect of Multiple Alternatives and Information Strength on Confidence in Perceptual Decision Tasks*; PI: Dobromir Rahnev, PhD

RESEARCH EXPERIENCE

Research Assistant, Athens, GA Summer 2021 - present
Cognition and Dexterity (CoDex) Laboratory, PI: Jing Xu, PhD

- *Focus*: Effects of impairment and enhancement on dexterity in the upper limbs and the neural mechanisms behind different dexterous tasks
- Investigating the effects of cerebral palsy on dexterity in children, the effects of handedness on dexterity in individuation and pinch tasks, the effects of TMS conditioning on upper extremity h-reflex, the effects of creativity on motor learning in a novel pinch task
- Assist with experimental and analytical design, data collection, lab organization, and research presentations
- Mentor team of undergrad RAs for data collection and analysis

Research Assistant, Atlanta, GA Fall 2019 - Fall 2020
Center for Advanced Brain Imaging, Rahnev Lab, PI: Dobromir Rahnev, PhD

- *Focus*: Effects of information strength on confidence in perceptual decision-making
- Schedule participants through SONA system, collect and safely store participant information documents, run participants, collect and save data in Matlab
- Coded data analysis in Matlab for undergraduate thesis

SELECTED PRESENTATIONS

Crabtree, B. C., Khan, O. A., Hines, D., Barnes, C. A., Modlesky, C. M., Xu, J. (2022, July). Assessing impaired finger individuation abilities in children with cerebral palsy. Poster to be presented at the meeting of Neural Control of Movement Annual Meeting, Dublin, Ireland.

Crabtree, B. C., Khan, O. A., Wilhoite, S. V., Pascal, J., Iyer, P. R., Colquitt, G., Modlesky, C. M., Xu, J. (2021, November). Assessing finger individuation abilities in cerebral palsy using a 3-dimensional force device. Poster presented at the meeting of Society for Neuroscience, virtual.

HONORS AND AWARDS

Student Travel Funding, University of Georgia Fall 2021, Summer 2022
Department of Kinesiology

Faculty Honors, Georgia Institute of Technology Fall 2018, Fall 2019, Fall 2020
GPA of 4.00, at least 12 hours of coursework on a letter grade basis

Dean's List, Georgia Institute of Technology Fall 2017, Spring 2019, Spring 2020
GPA of 3.00 or higher, at least 12 hours of coursework on a letter grade basis

TEACHING EXPERIENCE

Teaching Assistant, Baton Rouge, LA and Houston, TX Summer 2019
 Duke TIP Summer Studies Program at LSU

Neuropsychology Course, Instructor: Julie Berhane

- Monitoring classroom of 20 gifted high school students in a summer neuropsychology class during two 3-week terms for 44 hours a week
- Prepared learning activities about neuroimaging techniques and abnormal psych treatments to explore neuropsychological topics
- Led discussions during evening study about material from class and further questions from the students
- Helped students design neuropsychological research proposals
- Emergency management planning and execution during the mid-term evacuation to Rice University campus

SERVICE AND WORK EXPERIENCE

EXPLORE LLC, Student Organization Fall 2017 to Fall 2020

Georgia Institute of Technology, Atlanta, GA

- A college community dedicated to promoting undergraduate research and pre-medical experience for freshmen through program alumni and faculty connections
- Participated in and facilitated event planning, set-up, and take-down
- Volunteered for recruiting and outreach events

Intramurals Official and Scorekeeper, Employment Fall 2019 to Spring 2020

Georgia Institute of Technology, Atlanta, GA

GT Competitive Sports Department

- Quick memorization of rules and procedures for several intramural sports
- Call and enforce penalties, careful observation of continuous stimulus, confidence and impartiality in posture, late and long hours at constant attention
- Strong public speaking skills obtained by enforcing penalties and rulings in heated games
- Received “Official of the Week” (November 2019) for Indoor Volleyball

Accounting Intern, Employment Summer 2016, 2017, and 2018

The Milner Agency, Lawrenceville, GA

- Providing clerical assistance to the accounting department
- Considerable data entry experience; updating commission payments on multiple excel grids and within software platform
- Scanning documents and saved to company’s online drive; sorting and filing documents within the drive

TECHNICAL SKILLS

Computational:

Proficient in: Microsoft Office Suite, R/RStudioStatisticalSoftware, MATLAB, Qualtrics

Experience in: Python, Psychtoolbox, C++, Adobe Creative Suite

CITI Training Certifications:

- Bio-Medical Research (July 22, 2021)
- Biomedical Responsible Conduct of Research Course (July 22, 2021)
- Social and Behavioral Responsible Conduct of Research Course (July 22, 2021)
- Social and Behavioral Research (September 9, 2021)

Additional Certifications: QPR Certification (April 30, 2019)

REFERENCES

Jing Xu, Assistant Professor of Kinesiology
University of Georgia
(706) 542-9840, jing.xu@uga.edu

Deborah A. Barany, Assistant Professor of Kinesiology
University of Georgia
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Anna Abraham, Professor of Neuroscience
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Lisa M. Renzi-Hammond, Associate Professor of Psychology
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Michael Borich, Associate Professor of Rehabilitation Medicine
Emory University
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