elizabeth**levitis**
MSc Candidate

contact

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languages

english native speaker,
russian native speaker,
basic spanish

programming

Python, R, Bash, PHP,
MATLAB, Javascript,
SQL, LaTeX, etc.

soft skills

problem solving,
teaching, research

education

2014 – 2016 **M.S.E** in Biomedical Engineering   Johns Hopkins University, Baltimore, MD
Thesis work was supervised by Joshua T. Vogelstein on a project entitled:
GREMLIN: Graph Estimation from MR images Leading to Inference in Neuro-science. All code and data have been made publicly available.

2010 – 2014 **B.Eng** in Biomedical and Electrical Engineering   Carleton University, Ottawa, ON
Capstone work was supervised by Leonard MacEachern on a project entitled:
Electrical muscle stimulation with concurrent EMG feedback of the upper arm for applications in stroke rehabilitation.

2018 **Software and Data Carpentry Instructor Training**   Compute Canada, Toronto, ON
Running workshops in the context of an evidence-based instructional pedagogy.

experience

Academic Experience

Current Positions & Activities

05/17 – now **McGill Centre for Integrative Neuroscience (MCIN)**   Montreal, QC
Software Developer & Researcher
Responsible for the exploration and integration of distributed software software services with high performance computing clouds and clusters, providing development, training, and support towards the use of tools and services within international collaborations, and developing methods for evaluating and describing analysis software in neuroimaging.

01/19 – now **Concordia Continuing Education**   Montreal, QC
Instructor & Curriculum Developer
Responsible for the training of working professionals in the basics of "Big Data Technology," including fundamental tools for software development such as Bash, Git, and Docker, as well as software for numerical analysis such as Python and R. Core contributor in the development of new courses within the "Big Data Solutions for Business" diploma program.

06/18 – now	**Organization for Human Brian Mapping (OHBM)**	Minneapolis, MN

Treasurer - Open Science Special Interest Group
Responsible for the procurement and management of finances for the special interest group. Includes creating budgets, interfacing with sponsors and vendors, as well as event organizers for the various activities run by the Open Science special interest group.

Previous Positions

09/14 – 05/17	**Center for Imaging Science, Johns Hopkins University**	Baltimore, MD

Research Engineer
Development and maintenance of an open-source pipeline for structural connectome estimation in humans and implemented statistical algorithms for quality control of data derivatives. Publicly released data products to lower the barrier to entry for neuroscience research. Chiefly responsible for grant reporting and public presence at conferences and workshops.

Teaching Experience

05/17 – now	**McGill University, OHBM, Brain Intensive, others**	Montreal, QC

Neuroinformatics Instructor
Regularly plan and teach a series of workshop introducing neuroscientists and trainees to methods in neuroinformatics. Developed and publicly released all course content on GitHub under the "Brainhack101" moniker and several videos on YouTube under the "BrainIntensive" profile.

memberships & extracurriculars

2019 – now	**OHBM Open Science SIG** Hackathon Chair & Organizer	Minneapolis, MN
2016 – 2017	**McGill University Bachelor of Arts & Science Integrative Council** Vice President (Academic)	Montreal, QC
2015 – 2017	**Making Waves** Special Needs Swimming Instructor	Montreal, QC
2015 – 2016	**McGill Cognitive Science Student Association** Vice President (External)	Montreal, QC
2015 – 2016	**McGill Science Undergraduate Society** Peer Tutor	Montreal, QC
2014 – 2015	**Spoon University** Co-Founder & Editor-in-Chief	Montreal, QC

awards

2019	**Instructor Training Fellowship**	Repronim, Worcester, MA
2017	**Dean's Undergraduate Multidisciplinary Research Award**	McGill University, Montreal, QC
2016	**Undergraduate Research Award**	McGill University, Montreal, QC
2016	**Tomlinson Engagement Award for Mentoring**	McGill University, Montreal, QC

interests

professional: neuroscience, translational research, cognitive science, informatics, software design, machine learning, statistics. **personal:** dance, crossfit, cooking.

publications

invited talks & organized workshops

1. OHBM Annual BrainHack & TrainTrack
   Open Science Special Interest Group (June 2020), Organization for Human Brain Mapping, Workshop.

2. Introduction to Scientific Software Development and Machine Learning
   Healthy Brains for Healthy Lives (Feb. 2019), McGill University, Workshop.

published code

For an up-to-date list of published code projects, please visit my GitHub profile at https://github.com/llevitis.