GREYDON GILMORE

Ph.D. candidate
Biomedical Engineering

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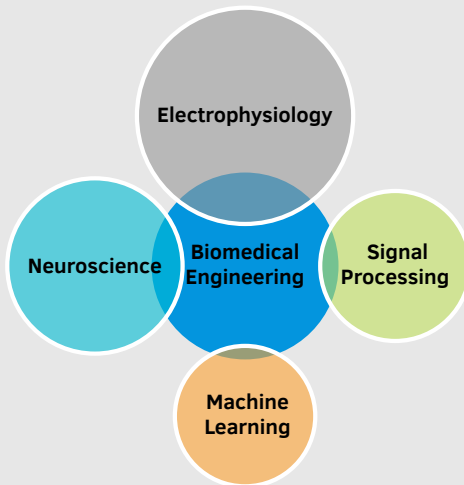- in /in/greydongilmore
- ⭘ greydongilmore

Technical Skills ⸻

Overview

Programming

$0\ LOC$ ⟶ $10000\ LOC$

Python • R • Matlab

SQL • LaTeX • Bash

C++

Education

2017-Present	**Ph.D. candidate Biomedical Engineering**	Western University
2013-2015	**M.Sc. Neuroscience**	Western University
2010-2013	**B.Sc. Neuroscience**	Carleton University

Research Experience

2017-Present Graduate Research Assistant (Ph.D) Western University

- developing machine learning models for improved accuracy during neurosurgery procedures

Projects: neural signal feature extraction, Deep brain stimulation electrode reconstructions
Tools: Python, R, Matlab, Bash, 3D Slicer, Github
Awards: Ontario Center of Excellent TalentEdge

2013-2015 Graduate Research Assistant (M.Sc.) Western University

- Full body assessment of Parkinson disease using inertial sensors and force plates

Projects: Tremor detection using inertial sensors, gait analysis
Tools: Python, Matlab, XSENS sensors, PKMAS Zenowalkway
Awards: Canadian Graduate Scholarship CIHR

Grants

2020-2022	**Graduate Student Award** **Amount**: $20,000 CAD/yr	Parkinson's Society of Canada
2017-2019	**Intern Talentedge Program** **Amount**: $60,000 CAD	Ontario Center of Excellence
2017-2019	**Graduate Student Award (declined)** **Amount**: $20,000 CAD	Parkinson's Society of Canada
2014-2016	**Canadian Graduate Scholarship** **Amount**: $37,000 CAD	Canadian Institute of Health Research

Training

July 2018 Deep Learning Reinforcement Learning Summer School
Vector Institute and CIFAR

May 2017 Intensive Intraoperative Neurophysiological Monitoring Course
Greenville Neuromodulation Centre

Publications

Gilmore, G., Murgai, A., Nazer, A., Parrent, A., Jog, M. (2019). Zona incerta deep-brain stimulation in orthostatic tremor: efficacy and mechanism of improvement. Journal of Neurology.

Gilmore, G., Gouelle, A., Adamson, M., Pieterman, M., Jog, M. (2019). Forward and backward walking in Parkinson disease: A factor analysis. Gait & Posture.

Gilmore, G., Lee, D., Parrent, A., Jog, M. (2017). The current state of post-operative imaging in the presence of deep brain stimulation electrodes. Movement Disorders.