

**Pedram Parnianpour, PhD**

**Postdoctoral Research Fellow**

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## Education

- **PhD in Neuroscience**, University of Alberta, Edmonton, AB, Canada (2018–2024) — GPA: 4.0/4.0
- **MSc in Biomedical Engineering**, Amirkabir University of Technology, Tehran, Iran (2014–2017)
- **BSc in Electrical Engineering**, Tafresh University, Iran (2010–2014)

## Professional Experience

- **Postdoctoral Research Fellow**, UBC – Djavad Mowafaghian Centre for Brain Health, Vancouver, BC (2024–Present)
- **Sessional Instructor – Biomedical Instrumentation (ENSC 475/875)**, Simon Fraser University, Burnaby, BC (Spring 2025)
- **Graduate Research Fellow**, University of Alberta – Neuroscience & Mental Health Institute, Edmonton, AB (2018–2024)
- **Graduate Teaching Assistant**, University of Alberta – Faculty of Engineering (2021–2024)
- **Graduate Research Assistant**, Amirkabir University of Technology, Tehran, Iran (2014–2017)

## Teaching Experience

- Instructor, ENSC 475/875 – Biomedical Instrumentation, Simon Fraser University (Spring 2025)
- TA, Math 102 & Physics 130, University of Alberta (2021–2024)
- Lab Instructor, Logic Circuits, Control Systems, Microprocessors, Amirkabir University (2014–2017)

### Supervision

- **2023** – Socrates Temraz: Cerebral degeneration in ALS using T2-weighted MRI
- **2022** – Adam Elamy: Functional connectivity of basal ganglia in ALS
- **2021** – Ekhlās Assaedi: Multimodal MRI texture analysis in ALS
- **2020** – Andrew Wu: Longitudinal FLAIR MRI texture analysis in ALS

### Selected Publications

- Parnianpour, P., Steinbach, R., Buchholz, I.J., et al. (2024). *T1-weighted MRI Texture Analyses in ALS Patients Stratified by the D50 Progression Model*. *Brain Commun* <https://doi.org/10.1093/braincomms/fcae389>
- Parnianpour, P., Benatar, M., Briemberg, H., et al. (2024). *Mismatch between clinically-defined classification of ALS stage and the burden of cerebral pathology*, *J Neurol*. <https://doi.org/10.1007/s00415-024-12190-x>
- Kuan, L.H., Parnianpour, P., Kushol, R. et al. (2023). *Accurate personalized survival prediction for amyotrophic lateral sclerosis patients*. *Sci Rep* 13, 20713. <https://doi.org/10.1038/s41598-023-47935-7>
- Kushol, R., Parnianpour, P., Wilman, A.H. et al. (2023). *Effects of MRI scanner manufacturers in classification tasks with deep learning models*. *Sci Rep* 13, 16791. <https://doi.org/10.1038/s41598-023-43715-5>

### Selected Presentations

- 13th Annual Neuroimaging Society in ALS, Montreal (2024)
- 34th International Symposium on ALS/MND, Basel, Switzerland (2023)
- ALS Canada Research Forum (2019–2023)

- OHBM Annual Meetings (2019, 2021)
- Alberta Imaging Symposium, Calgary (2019)

### **Awards & Scholarships**

- ALS Canada Travel Award (2024)
- Academic Travel Grant, University of Alberta (2023)
- Doctoral Recruitment Scholarship, University of Alberta (2018)

### **Technical Skills**

- **Neuroimaging Tools:** SPM, FSL, CONN, ITK-SNAP, MRICroGL, ImageJ
- **Programming:** Python, MATLAB, Linux
- **Machine/Deep Learning:** PyTorch, Keras, TensorFlow
- **Data Analysis:** SPSS, advanced statistics, survival modeling
- **Domains:** ALS, functional MRI, texture analysis, graph theory

### **Leadership & Service**

- President, UBC Postdoctoral Association (2025–2026)
- Reviewer: *NeuroImage: Clinical*, *Neuroradiology*, *Brain Research Bulletin* (since 2024)
- Interviewer, UBC Faculty of Medicine MD Admissions (2025)