# Mehrdad Kashefi


**Contact Info**

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https://mehrdadkashefi.github.io


**Education**

**Western University**, London, ON, Canada — 2020 - now
*Neuroscience Ph.D. Candidate*
Thesis Title: "Neural Basis of Sequential Action"
Advisors: Dr. Andrew Pruszynski, Dr. Jörn Diedrichsen

**Iran University of Science and Technology (IUST)**, Tehran, Iran — 2017 - 2020
*M.S. Electrical Engineering - Bioengineering*

**Lorestan University**, Lorestan, Iran — 2013 - 2017
*B.S. Electrical Engineering - Electronics*

**Awards**

Neuroscience Program Travel Award, Western University — 2022
Graduated with University Honors and First Rank GPA, IUST — 2020
Distinguished Student of EE Department, IUST — 2019

**Publications**

**Preprints**

Codol O., **Kashefi M.**, Forgaard C.J., Galea J.M., Pruszynski J.A., Gribble P. "Sensorimotor feedback loops are selectively sensitive to reward", bioRxiv, 2021

**Journal Articles**

Ahmadi A.*, **Kashefi M.***, Shahrokhi H, Nazari M.A., "Computer aided diagnosis system using deep convolutional neural networks for ADHD subtypes", Biomedical Signal Processing and Control, 2021 (* := equal contribution)

**Kashefi M.**, Daliri M.R., "A stack LSTM structure for decoding continuous force from local field potential signal of primary motor cortex (M1)", BMC bioinformatics, 2021

**Conference**

**Kashefi M.**, Ariani G., Diedrichsen J., Pruszynski J.A., "Planning multiple future actions in sequential reaching", Neural Control of Movement, Dublin, Ireland, 2022

Michaels J., **Kashefi M.**, Codol O., Kersten R., Pruszynski J.A. "A distributed circuit for regulating feedback control policy", Neural Control of Movement, Dublin, Ireland, 2022 Talk

Codol O., Michaels J., **Kashefi M.**, Pruszynski J.A., Gribble P., "MotorNet: a Python toolbox for controlling biomechanical effectors with deep learning", Neural Control of Movement, Dublin, Ireland, 2022

Codol O., **Kashefi M.**, Forgaard C., Galea J., Pruszynski J.A., Gribble P., "Sensorimotor feedback loops are selectively sensitive to reward", Neural Control of Movement, Dublin, Ireland, 2022

**Teaching**

**TA**

Physiology and Pharmacology Laboratory, Western University — 2021
Computational Neuroscience, IUST — 2019-2020
Electronic Circuits, IUST — 2018

**Outreach**

Thames Valley Science and Engineering Fair, London, ON, CA — 2021
Judge for Grade 4-12 Science Engineering Fair

Python Camp, IUST 2019
Introductory python course for middle school students

**Referees**

**Dr. Andrew Pruszynski**
Associate Professor, Western Research Chair in Sensorimotor Neuroscience
Western University
Email: andrew.pruszynski@uwo.ca

**Dr. Jörn Diedrichsen**
Professor, Western Research Chair for Motor Control and Computational Neuroscience
Western University
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