RYAN FAYYAZI

EDUCATION

2020-2024	**MSc, Computer Science** University of British Columbia, Vancouver, Canada Advisor: Frank Wood Thesis: Learning in neural networks with communication delays
2016-2020	**BSc, Integrated Science** (Honours & Distinction) University of British Columbia, Vancouver, Canada Focus: Computational neuroscience Thesis: Inferring synaptic plasticity programs governing tap-withdrawal habituation in *C. elegans*

RESEARCH EXPERIENCE

Feb 2024 - Present	**Computational Researcher** Cold Spring Harbor Laboratory, NY, USA Supervisor: Benjamin Cowley
May 2023 - Sept 2023	**NeuroAI Intern** Cold Spring Harbor Laboratory, NY, USA Supervisors: Benjamin Cowley and Florin Albeanu
Sept 2020 - Sept 2024	**Graduate Research Associate** Department of Computer Science, UBC, Vancouver, Canada Advisor: Frank Wood
Sept 2019 - May 2020	**Undergraduate Honours Researcher** Department of Computer Science, UBC, Vancouver, Canada Advisor: Frank Wood
Mar 2019 - Sept 2019	**Undergraduate Research Assistant** Department of Computer Science, UBC, Vancouver, Canada Supervisor: Frank Wood
Mar 2017 - Feb 2019	**Undergraduate Research Assistant** Department of Psychiatry, UBC, Vancouver, Canada Supervisor: Jeremy K. Seamans

PRE-PRINTS

Fayyazi, R.*, Weilbach, C.* & Wood, F. (2024). Prospective Messaging: Learning in networks with communication delays. arXiv:2407.05494v2, https://doi.org/10.48550/arXiv.2407.05494.

CONFERENCE POSTERS & TALKS

Kerstjens, S., **Fayyazi, R.**, & Zador, A. M. (2024). Growing complex intelligent systems with simple recursive rules. From Neuroscience to Artificially Intelligent Systems (NAISYS), Cold Spring Harbor, NY, USA.

Fayyazi, R., Weilbach, C. & Wood, F. (2022). Learning in model-parallel neural networks with communication delays. Bernstein Conference, Berlin, Germany.

Einarsson, E. Ö., **Fayyazi, R.**, Floresco, S. B. & Seamans, J. K. (2018). Neural correlates of risk/reward decision making in the medial prefrontal cortex and basolateral amygdala. Society for Neuroscience Annual Meeting (SfN), San Diego, CA, USA.

Powell, N.J., Gupta, S., Malhotra, A., **Fayyazi, R.** & Seamans, J. K. (2018). How over interpretation of simple behavioral models can lead to unexpected results: In search of the optimal sampling distributions for delay values on the Restaurant Row Task. Society for Neuroscience Annual Meeting (SfN), San Diego, CA, USA.

TEACHING & MENTORSHIP

June 2024 - Aug 2024	**Mentor, Undergraduate Research Program** Cold Spring Harbor Laboratory, NY, USA Project: Predicting behavioral responses to odor from neural activity in mice

AWARDS & HONOURS

2020 - 2024	UBC Faculty of Science Graduate Award ($15,000)
2019 - 2020	UBC Science Scholar
2017 - 2020	UBC Dean’s List