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RESEARCH INTERESTS	I am a machine learning researcher interested in collaborative and interdisciplinary approaches to deepen our scientific understanding of black-box neural networks.
PUBLICATIONS	<ol style="list-style-type: none"><li>3. <b>V White</b>, M Chaudhary, G Wolf, G Lajoie, KD Harris. Learning Stochastic Rainbow Networks. NeurIPS Workshop on Scientific Methods for Understanding Deep Learning, 2024.</li><li>2. <b>V White</b>, A White, J Wild, T Nguyen, F Huang. Human Error Scenario Analysis of Software Defects. ISSRE Workshop on Human Factors for Software Dependability, 2024.</li><li>1. <b>V White</b>, M Chaudhary, G Wolf, G Lajoie, KD Harris. Learning and Aligning Structured Random Feature Networks. ICLR Workshop on Representational Alignment, 2024.</li></ol>
EDUCATION	<p><b>University of British Columbia</b>, Vancouver, British Columbia, CA.</p> <ul style="list-style-type: none"><li>· Ph.D., Computer Science, expected 2029</li></ul> <p><b>Western Washington University</b>, Bellingham, Washington, USA.</p> <ul style="list-style-type: none"><li>· M.S., Computer Science, June 2025, GPA <b>4.00/4.00</b></li><li>· B.S., Computer Science, June 2024, GPA <b>3.78/4.00</b><ul style="list-style-type: none"><li>· Minors in Mathematics and Honors Interdisciplinary Studies</li></ul></li></ul>
GRANTS AND AWARDS	<p>Graduate</p> <ul style="list-style-type: none"><li>· CS Merit Scholarship, UBC, 2025</li><li>· Outstanding Graduate in Computer Science, WWU, 2025</li><li>· Dean J. Alan Ross Travel Fund Award, WWU, 2024</li><li>· CS Graduate Fellowship, WWU, 2024</li><li>· Graduate Recruitment Tuition Waiver, WWU, 2024</li></ul> <p>Undergraduate</p> <ul style="list-style-type: none"><li>· Outstanding Undergraduate in Computer Science, WWU, 2024</li><li>· 1st-place award for CS poster presentation, ERN Conference, 2024</li><li>· Barbara Ellen Maguire-Veith Family Scholarship, WWU, 2023</li><li>· IN-BIC Fellow, 2023</li><li>· Lars and Elaine Giusti Scholarship for Computer Science, WWU, 2022</li><li>· CS/Math Distinguished Scholar Award, WWU, 2020-2023</li><li>· Western Foundation Distinguished Scholar Award, WWU, 2020</li><li>· Merit Scholarship, WWU, 2020</li><li>· Admissions Achievement Award, WWU, 2020</li><li>· Admissions Annual Scholarship, WWU, 2020</li><li>· Scholarship Award, WSECU, 2020</li></ul>
EXPERIENCE	<p>Graduate Research Assistant, UBC, Sept 2025–present</p> <ul style="list-style-type: none"><li>· Studying learning and adaptation for vision with Dr. Evan Shelhamer</li></ul> <p>NSIP Masters Intern, PNNL, June–Aug 2025</p> <ul style="list-style-type: none"><li>· Worked in the Math for AI Assurance team with Dr. Henry Kvinge</li><li>· Fine-tuned base LLM with GRPO for statistical weight analysis</li></ul> <p>Graduate Teaching Assistant, WWU, Dec 2024–June 2025</p> <ul style="list-style-type: none"><li>· Taught weekly labs and graded for an introductory data science class</li><li>· Graded for a graduate-level analysis of algorithms class</li></ul> <p>Computational Neuroscience Research Assistant, WWU, June 2022–June 2025</p> <ul style="list-style-type: none"><li>· Advised by Dr. Kameron Decker Harris studying more interpretable models of deep learning</li><li>· Developed learnable structured random feature networks and deep stochastic rainbow networks</li></ul> <p>Research Intern at Mila - the Quebec AI Institute, Montréal, QC, July–Sept 2023</p> <ul style="list-style-type: none"><li>· Advised by Dr. Guy Wolf and Dr. Guillaume Lajoie studying learnable structured random features</li></ul>

- Funded by grant from International Network for Bio-Inspired Computing (IN-BIC) through NSF AccelNet program (2019976)

Computer Vision Research Assistant, WWU, April 2021–March 2022

- Worked with Dr. Scott Wehrwein on international borders project applying machine learning techniques to international border legibility tasks

#### RESEARCH TALKS

*Analysis of LLM Weights During RL Reasoning Finetuning*

- August Intern Symposium, Pacific Northwest National Laboratory, virtual, Aug 2025

*Learning Stochastic Rainbow Networks*

- Graduate Research Symposium, Western Washington University, Bellingham, WA, June 2025
- NSF Emerging Researchers National (ERN) Conference, Atlanta, GA, Mar 2025
- Mihales Lab, Allen Institute for Brain Science, Seattle, WA, Jan 2025

*Learning and Aligning Structured Random Feature Networks*

- NeuroAI Workshop, University of Oregon, Eugene, OR, Aug 2024
- Hutchinson ML Research Group, Western Washington University, Bellingham, WA, June 2024

*Unveiling the Cognitive Roots: Human Error Scenario Analysis of Software Defects*

- Senior Project Symposium, Western Washington University, Bellingham, WA, May 2024

*Randomized Scattering Convolutional Networks*

- Bonner Lab, Johns Hopkins University, virtual, Sept 2023
- RAFALES Lab, Mila, Montréal, QC, Aug 2023
- Neuro-AI Computations Research Group, Mila, Montréal, QC, Aug 2023

#### POSTER

#### PRESENTATIONS

*Learning and Aligning Structured Random Feature Networks*

- CoNectome Symposium, University of Washington, Seattle, WA, May 2024
- Scholars Week, Western Washington University, Bellingham, WA, May 2024
- ICLR Workshop on Representational Alignment, Vienna, Austria, May 2024
- NSF Emerging Researchers National (ERN) Conference, Washington DC, Mar 2024

*Randomized Scattering Convolutional Networks*

- DeepMath Conference, Johns Hopkins University, Baltimore, MD, Nov 2023
- NeuroAI Workshop, Mila, Montréal, QC, Oct 2023
- NSF S-STEM Scholars Meeting, Washington DC, Sept 2023
- Scholars Week, Western Washington University, Bellingham, WA, May 2023
- NeuroAI Seattle, University of Washington, Seattle, WA, Sept 2022

#### TECHNICAL SKILLS

Languages: Python (PyTorch, numpy, pandas, scikit-learn), Java, C, Javascript

Systems: Bash, Linux, L<sup>A</sup>T<sub>E</sub>X, git, HPC cluster environments, AWS, HuggingFace

#### REFERENCES

**Evan Shelhamer**

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**Henry Kvinge**

Affiliate Assistant Professor, Department of Mathematics, University of Washington  
Data Scientist, Pacific Northwest National Laboratory  
[hjk3@uw.edu](mailto:hjk3@uw.edu)

**Guillaume Lajoie**

Associate Professor, Department of Mathematics and Statistics, Université de Montréal  
Core Academic Member, Mila  
[guillaume.lajoie@mila.quebec](mailto:guillaume.lajoie@mila.quebec)

**Kameron Decker Harris**

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