Contact	$Email: whitev 4 @www.edu \\ Website: vivian white.github.io \\ Linked In: linked in.com/in/vivian-white \\ Particular (Index) \\ Particul$
Research Interests	I am a computer scientist focused on <b>computational neuroscience</b> and <b>machine learning</b> . I am interested in collaborative and interdisciplinary approaches to deepen our scientific understanding of neural networks.
Publications	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.
	2. V White, A White, J Wild, T Nguyen, F Huang. Human Error Scenario Analysis of Software Defects. ISSRE Workshop on Human Factors for Software Dependability, 2024.
	1. V White, M Chaudhary, G Wolf, G Lajoie, KD Harris. Learning and Aligning Structured Random Feature Networks. ICLR Workshop on Representational Alignment, 2024.
Education	<ul> <li>Western Washington University, Bellingham, Washington.</li> <li>M.S., Computer Science, expected June 2025, GPA 4.00/4.00</li> <li>B.S., Computer Science, June 2024, GPA 3.78/4.00</li> <li>Minors in Mathematics and Honors Interdisciplinary Studies</li> </ul>
Grants and Awards	Graduate • Dean J. Alan Ross Travel Fund Award, WWU, 2024 • CS Graduate Fellowship, WWU, 2024
	· Graduate Recruitment Tuition Waiver, WWU, 2024
	<ul> <li>Undergraduate</li> <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> </ul>
	<ul> <li>Lars and Elaine Giusti Scholarship for Computer Science, WWU, 2022</li> <li>Computer Science/Math Distinguished Scholar Award, WWU, 2020-2023</li> <li>Western Foundation Distinguished Scholar Award, WWU, 2020</li> <li>Merit Scholarship, WWU, 2020</li> </ul>
	<ul> <li>Admissions Achievement Award, WWU, 2020</li> <li>Admissions Annual Scholarship, WWU, 2020</li> <li>Scholarship Award, WSECU, 2020</li> </ul>
Research Experience	<ul> <li>Computational Neuroscience Research Assistant, WWU, June 2022–present</li> <li>Advised by Dr. Kameron Decker Harris studying more interpretable models of learning in neural networks trained for vision tasks</li> </ul>
	• Developed structured random feature networks with learnable weight covariances and deep stochas- tic minhow networks
	<ul> <li>Presented findings at multiple national and international conferences and workshops</li> <li>Published papers to the 2024 ICLR Workshop on Representational Alignment and NeurIPS Workshop on Scientific Methods for Understanding DL</li> </ul>
	<ul> <li>Human Errors in Software Engineering Research Assistant, WWU, Sept 2023–June 2024</li> <li>Advised by Dr. Fuqun Huang studying root causes of human errors behind programming defects</li> <li>Led a team analyzing cognitive roots of 120 software defects from six open-source repositories</li> <li>Published paper to the 2024 ISSRE Workshop on Human Factors for Software Dependability</li> </ul>
	<ul> <li>Research Intern at Mila - the Quebec AI Institute, Montréal, QC, July–Sept 2023</li> <li>Advised by Dr. Guy Wolf and Dr. Guillaume Lajoie studying learnability in structured random feature networks during my IN-BIC fellowship</li> <li>Active member of two graduate research labs</li> </ul>
	· Funded by grant from International Network for Bio-Inspired Computing (IN-BIC) through NSF AccelNet program (2019976)

	<ul> <li>Computer Vision Research Assistant, WWU, April 2021–March 2022</li> <li>Worked with Dr. Scott Wehrwein on international borders project applying machine learning techniques to international border legibility tasks</li> <li>Web scraped satellite images of international borders using Bing Maps API</li> <li>Gained skills reading computer vision research papers and collaborating effectively on a team</li> </ul>
Research Talks	<ul> <li>Learning Stochastic Rainbow Networks</li> <li>NSF Emerging Researchers National (ERN) Conference, Atlanta, GA, Mar 2025</li> <li>Mihales Lab, Allen Institute for Brain Science, Seattle, WA, Jan 2025</li> </ul>
	<ul> <li>Learning and Aligning Structured Random Feature Networks</li> <li>NeuroAI Workshop, University of Oregon, Eugene, OR, Aug 2024</li> <li>Hutchinson ML Research Group, Western Washington University, Bellingham, WA, June 2024</li> </ul>
	Unveiling the Cognitive Roots: Human Error Scenario Analysis of Software Defects · Senior Project Symposium, Western Washington University, Bellingham, WA, May 2024
	<ul> <li>Randomized Scattering Convolutional Networks</li> <li>Bonner Lab, Johns Hopkins University, virtual, Sept 2023</li> <li>RAFALES Lab, Mila, Montréal, QC, Aug 2023</li> <li>Neuro-AI Computations Research Group, Mila, Montréal, QC, Aug 2023</li> </ul>
Poster Presentations	<ul> <li>Learning and Aligning Structured Random Feature Networks</li> <li>CoNectome Symposium, University of Washington, Seattle, WA, May 2024</li> <li>Scholars Week, Western Washington University, Bellingham, WA, May 2024</li> <li>ICLR Workshop on Representational Alignment, Vienna, Austria, May 2024</li> <li>NSF Emerging Researchers National (ERN) Conference, Washington DC, Mar 2024</li> </ul>
	<ul> <li>Randomized Scattering Convolutional Networks</li> <li>DeepMath Conference, Johns Hopkins University, Baltimore, MD, Nov 2023</li> <li>NeuroAI Workshop, Mila, Montréal, QC, Oct 2023</li> <li>NSF S-STEM Scholars Meeting, Washington DC, Sept 2023</li> <li>Scholars Week, Western Washington University, Bellingham, WA, May 2023</li> <li>NeuroAI Seattle, University of Washington, Seattle, WA, Sept 2022</li> </ul>
TECHNICAL SKILLS	Languages: Python (PyTorch, numpy, pandas, scikit-learn), Java, C, Javascript
	Systems: Bash, Linux, ${\rm IAT}_{\rm E}\!{\rm X},$ git, HPC cluster environments, AWS
References	Kameron Decker Harris Assistant Professor, Department of Computer Science, Western Washington University kameron.harris@wwu.edu
	Guillaume Lajoie Associate Professor, Department of Mathematics and Statistics, Université de Montréal Core Academic Member, Mila guillaume.lajoie@mila.quebec
	Filip Jagodzinski

Filip Jagodzinski Professor and Chair, Department of Computer Science, Western Washington University filip.jagodzinski@wwu.edu