

Alex Oesterling

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EDUCATION	Harvard University <i>Ph.D. in Computer Science</i> <i>Advised by Prof. Flavio du Pin Calmon, Prof. Hima Lakkaraju</i>	2022 – Present
	Duke University <i>B.S.E. in Electrical and Computer Engineering, Computer Science</i> <i>Advised by Prof. Guillermo Sapiro, Prof. Cynthia Rudin</i>	2018 – 2022 GPA: 3.98
PUBLICATIONS	“Multi-Group Proportional Representation.” A. Oesterling* , C.M. Verdun*, C.X. Long, A. Glynn, L.M. Paes, S. Vithana, M. Cardone, F.P. Calmon. <i>NeurIPS 2024</i>	
	“Operationalizing the Blueprint for an AI Bill of Rights: Recommendations for Practitioners, Researchers, and Policy Makers.” A. Oesterling* , U. Bhalla, S. Venkatasubramanian, H. Lakkaraju <i>Under Review</i>	
	“Interpreting CLIP with Sparse Linear Concept Embeddings (SpLiCE).” U. Bhalla*, A. Oesterling* , S. Srinivas, F. P. Calmon, H. Lakkaraju. <i>NeurIPS 2024</i>	
	“Fair Machine Unlearning: Mitigating Disparities during Data Deletion.” A. Oesterling , J. Ma, F. P. Calmon, H. Lakkaraju. <i>AISTATS 2024</i>	
	“Integrated Single-cell Multiomic Analysis of HIV Latency Reversal Reveals Novel Regulators of Viral Reactivation.” A. Manickam, J. Peterson, Y. Harigaya, D. Murdoch, D. Margolis, A. Oesterling , Z. Guo, C. Rudin, Y. Jiang, E. Browne. <i>Genomics, Proteomics & Bioinformatics, 2024</i>	
	“PP 1.33 – 00167 Integrated single-cell multiomic profiling of HIV latency reversal.” A. Manickam, J. Peterson, W. Mei, D. Murdoch, D. Margolis, A. Oesterling , Z. Guo, C. Rudin, Y. Jiang, E. Browne. <i>Journal of Virus Eradication, 2022</i>	
	“Multitask Learning for Citation Purpose Classification.” A. Oesterling* , A. Ghosal*, H. Yu*, R. Xin*, Y. Baig*, L. Semenova, C. Rudin. <i>Second Workshop on Scholarly Document Processing (SDP), NAACL, 2021</i>	
	“Distributionally Robust Group Backwards Compatibility.” M. Bertran, N. Martinez, A. Oesterling , and G. Sapiro. <i>NeurIPS Workshop DistShift, 2021</i>	
	“Detecting Motion in a Room Using a Dynamic Metasurface Antenna.” A. Oesterling , M. Imani, O. Mizrahi, J. Gollub, and D. Smith. <i>IEEE Access, 2020</i>	

** denotes equal contribution*

FELLOWSHIPS & AWARDS	National Science Foundation Graduate Research Fellowship, 2022	
	<i>Funding for three years of graduate studies, covering cost of tuition and stipend</i>	
	Duke George Sherrerd III Memorial Award, 2022	
	<i>Awarded annually by ECE faculty to the senior with the highest scholastic achievement and service to the community.</i>	
	Tau Beta Pi, 2021	
	<i>National engineering honor society member with high academic standing and exemplary character.</i>	
TEACHING	IEEE Eta Kappa Nu, 2021	
	<i>IEEE honor society for electrical engineers with high academic standing and leadership potential.</i>	
	Pratt Fellowship, 2020	
	<i>Competitive research fellowship culminating in graduation with distinction.</i>	
	Huang Fellowship, 2019	
	<i>Competitive fellowship focused on science and its intersection with society.</i>	
SERVICE	Teaching Fellow, ES 156: Signals and Communications	
	Harvard, Spring 2024	
	Head Teaching Assistant, First Year Design (EGR 101)	
	Duke, Fall 2020-2021	
	Teaching Assistant, First Year Design (EGR 101)	
	Duke, Fall 2019	
LEADERSHIP	Conference Reviewer	
	<i>NeurIPS, ICML, ICLR, FAccT</i>	
	Journal Reviewer	
	<i>IEEE Journal on Selected Areas in Information Theory</i>	
	Workshop Program Chair	
	<i>RegML @ NeurIPS 2024</i>	
WORK EXPERIENCE	Brownstone Residential Living Group	
	01/2019 – 05/2022	
	<i>President, Historian</i>	
	Duke Pureun KPop Dance Team	
	09/2019 – 05/2022	
	<i>Social Chair and Small Group Leader</i>	
WORK EXPERIENCE	Amazon Alexa	
	06/2021 - 08/2021	
	<i>Software Development Engineering Intern</i>	
WORK EXPERIENCE	Improved ambient Alexa experience by introducing new use case for customers owning a single device with a screen	