

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
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>	
	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>	
WORK EXPERIENCE	Amazon Alexa <i>Software Development Engineering Intern</i> Improved ambient Alexa experience by introducing new use case for customers owning a single device with a screen	06/2021 - 08/2021
PUBLICATIONS	“Interpreting CLIP with Sparse Linear Concept Embeddings (SpLiCE).” U. Bhalla*, A. Oesterling* , S. Srinivas, F. P. Calmon, H. Lakkaraju. <i>NeurIPS 2024</i>	
	“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>	
	“Fair Machine Unlearning: Mitigating Disparities during Data Deletion.” A. Oesterling , J. Ma, F. P. Calmon, H. Lakkaraju. <i>AISTATS 2024</i>	
	“Multitask Learning for Citation Purpose Classification.”	

A. Oesterling*, A. Ghosal*, H. Yu*, R. Xin*, Y. Baig*, L. Semenova, C. Rudin.
Second Workshop on Scholarly Document Processing (SDP), NAACL, 2021

“Distributionally Robust Group Backwards Compatibility.”
M. Bertran, N. Martinez, **A. Oesterling**, and G. Sapiro.
NeurIPS Workshop DistShift, 2021

“Detecting Motion in a Room Using a Dynamic Metasurface Antenna.”
A. Oesterling, M. Imani, O. Mizrahi, J. Gollub, and D. Smith.
IEEE Access, 2020

“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.
Genomics, Proteomics & Bioinformatics, 2024

“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.
Journal of Virus Eradication, 2022

** denotes equal contribution*

TEACHING	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

SERVICE	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>

LEADERSHIP	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>	