

# Alex Oesterling

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EDUCATION	<b>Harvard University</b> <i>Ph.D. in Computer Science</i> <i>Advised by Prof. Flavio du Pin Calmon, Prof. Hima Lakkaraju</i>	2022 – Present
	<b>Duke University</b> <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	“Interpreting CLIP with Sparse Linear Concept Embeddings (SpLiCE).” U. Bhalla*, <b>A. Oesterling*</b> , S. Srinivas, F. P. Calmon, H. Lakkaraju. <i>Under Review</i>
	“Fair Machine Unlearning: Mitigating Disparities during Data Deletion.” <b>A. Oesterling</b> , 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, <b>A. Oesterling</b> , Z. Guo, C. Rudin, Y. Jiang, E. Browne. <i>bioRxiv, 2022</i>
	“PP 1.33 – 00167 Integrated single-cell multi-omic profiling of HIV latency reversal.” A. Manickam, J. Peterson, W. Mei, D. Murdoch, D. Margolis, <b>A. Oesterling</b> , Z. Guo, C. Rudin, Y. Jiang, E. Browne. <i>Journal of Virus Eradication, 2022</i>
	“Multitask Learning for Citation Purpose Classification.” <b>A. Oesterling*</b> , 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, <b>A. Oesterling</b> , and G. Sapiro. <i>NeurIPS Workshop DistShift, 2021</i>
	“Detecting Motion in a Room Using a Dynamic Metasurface Antenna.” <b>A. Oesterling</b> , M. Imani, O. Mizrahi, J. Gollub, and D. Smith. <i>IEEE Access, 2020</i>

\* denotes equal contribution

FELLOWSHIPS & AWARDS	<b>National Science Foundation Graduate Research Fellowship, 2022</b> <i>Funding for three years of graduate studies, covering cost of tuition and stipend</i>
	<b>Duke George Sherrerd III Memorial Award, 2022</b> <i>Awarded annually by ECE faculty to the senior with the highest scholastic achievement and service to the community.</i>
	<b>Tau Beta Pi, 2021</b> <i>National engineering honor society member with high academic standing and exemplary character.</i>
	<b>IEEE Eta Kappa Nu, 2021</b> <i>IEEE honor society for electrical engineers with high academic standing and leadership potential.</i>
	<b>Pratt Fellowship, 2020</b> <i>Competitive research fellowship culminating in graduation with distinction.</i>
	<b>Huang Fellowship, 2019</b> <i>Competitive fellowship focused on science and its intersection with society.</i>

<b>TEACHING</b>	<b>Teaching Fellow, Harvard Signals and Communications</b>	Spring 2024
	<b>Head Teaching Assistant, Duke First Year Design (EGR 101)</b>	Fall 2020-2021
	<b>Teaching Assistant, Duke First Year Design (EGR 101)</b>	Fall 2019
<b>WORK EXPERIENCE</b>	<b>Amazon Alexa</b>	06/2021 - 08/2021
	<i>Software Development Engineering Intern</i> Improved ambient Alexa experience by introducing new use case for customers owning a single device with a screen	
<b>LEADERSHIP</b>	<b>Brownstone Residential Living Group</b>	01/2019 – 05/2022
	<i>President, Historian</i>	
	<b>Duke Pureun KPop Dance Team</b>	09/2019 – 05/2022
	<i>Social Chair and Small Group Leader</i>	