

# Alex Oesterling

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<b>EDUCATION</b>	<b>Harvard University</b>	2022 – Present
	<i>Ph.D. in Computer Science</i> <i>Advised by Prof. Flavio du Pin Calmon, Prof. Hima Lakkaraju</i>	
	<b>Duke University</b>	2018 – 2022
	<i>B.S.E. in Electrical and Computer Engineering, Computer Science</i> <i>Advised by Prof. Guillermo Sapiro, Prof. Cynthia Rudin</i>	GPA: 3.98

**PUBLICATIONS** “Fair Machine Unlearning: Mitigating Disparities during Data Deletion.” **A. Oesterling**, J. Ma, F. Calmon, H. Lakkaraju. *ICML Data Centric Machine Learning Workshop, 2023*

“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. *bioRxiv, 2022*

“PP 1.33 – 00167 Integrated single-cell multi-omic 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*

“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*

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

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

\* denotes equal contribution

<b>FELLOWSHIPS &amp; AWARDS</b>	<b>National Science Foundation Graduate Research Fellowship, 2022</b>	
	<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 policy, ethics, and society.</i>

**TEACHING**      **Head Teaching Assistant, Duke First Year Design (EGR 101)**      Fall 2020-2021  
**Teaching Assistant, Duke First Year Design (EGR 101)**      Fall 2019

**WORK**      **Amazon Alexa**      06/2021 - 08/2021  
**EXPERIENCE**      *Software Development Engineering Intern*  
Improved ambient Alexa experience by introducing new use case for customers owning a single device with a screen

**LEADERSHIP**      **Brownstone Residential Living Group**      01/2019 – 05/2022  
*President, Historian*

**Duke Pureun KPop Dance Team**      09/2019 – 05/2022  
*Social Chair and Small Group Leader*