Alex Oesterling

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EDUCATION

Harvard University 2022 – Present
Ph.D. in Computer Science
Advised by Prof. Flavio du Pin Calmon, Prof. Hima Lakkaraju

Duke University 2018 – 2022
B.S.E. in Electrical and Computer Engineering, Computer Science GPA: 3.98
Advised by Prof. Guillermo Sapiro, Prof. Cynthia Rudin

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*

FELLOWSHIPS & AWARDS

National Science Foundation Graduate Research Fellowship, 2022
Duke George Sherrerd III Memorial Award, 2022
Awarded annually by ECE faculty to the senior with the highest scholastic achievement and service to the commmunity.
Tau Beta Pi, 2021
National engineering honor society member with high academic standing and exemplary character.
IEEE Eta Kappa Nu, 2021
IEEE honor society for electrical engineers with high academic standing and leadership potential.
Pratt Fellowship, 2020
Competitive research fellowship culminating in graduation with distinction.
Huang Fellowship, 2019
Competitive fellowship focused on science and its intersection with policy, ethics, and society.

TEACHING

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

WORK EXPERIENCE

Amazon Alexa 06/2021 - 08/2021
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