OLAWALE SALAUDEEN

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EDUCATION

University of Illinois at Urbana-Champaign *August 2019 - (anticipated) August 2024*
Ph.D. Candidate in Computer Science, advised by Sanmi Koyejo *Urbana, IL*

Stanford University *September 2022 - Present*
Visiting Ph.D. Student in Computer Science, hosted by Sanmi Koyejo *Stanford, CA*

Texas A&M University *August 2015 - May 2019*
Bachelor of Science with honors in Mechanical Engineering *College Station, TX*

EMPLOYMENT

Research Intern with Moritz Hardt, Max Planck Institute for Intelligent Systems (Tübingen, Germany)
09/2023 - 02/2024
Machine Learning Intern on AV Behavior, Cruise LLC (San Francisco, CA) *Summer 2023*
Student Researcher with Alex D'Amour, Google Brain (Cambridge, MA) *05/2022 - 12/2022*
R&D Intern, Sandia National Laboratories (Albuquerque, NM) *05/2017 - 04/2022*

PREPRINTS AND WORKING PAPERS

4. **Olawale Salaudeen**, Moritz Hardt. "ImageNot: A Contrast with ImageNet preserves model rankings" *In Review.*

3. Pablo Robles-Granda, Evan D. Anderson, **Olawale Salaudeen**, Ethan Trewhitt, Christopher E. Zwilling, Elizabeth Whitaker, Aron K. Barbey, Oluwasanmi Koyejo "Ensemble-Learning for Counterfactual Estimation" *In Review.*

2. **Olawale Salaudeen**, Oluwasanmi Koyejo. "Towards Accurate Benchmarking of Domain Generalization." *In Preparation, 2024.*

1. **Olawale Salaudeen** et al. "Causal-ICA-AROMA – Motion Denoising in fMRI via Causal Graphical Model Augmentation of ICA-AROMA" *In Preparation, 2024.*

PUBLICATIONS

* denotes joint first-authorship

7. **Olawale Salaudeen**, Oluwasanmi Koyejo. "Causally inspired Regularization enables Domain General Representations" The International Conference on Artificial Intelligence and Statistics (AISTATS), 2024. (to appear)

6. Katherine Tsai, Stephen R. Pfohl, **Olawale Salaudeen**, Nicole Chiou, Matt J. Kustner, Alexander D'Amour, Sanmi Koyejo, Arthur Gretton. "Proxy Methods for Domain Adaptation" The International Conference on Artificial Intelligence and Statistics (AISTATS), 2024. (to appear)

5. *Ibrahim Alabdulmohsin, *Nicole Chiou, *Alexander D'Amour, *Arthur Gretton, *Sanmi Koyejo, *Matt J. Kusner, *Stephen R. Pfohl, *__Olawale Salaudeen__, *Jessica Schrouff, *Katherine Tsai. "Adapting to Latent Subgroup Shifts via Concepts and Proxies." The International Conference on Artificial Intelligence and Statistics (AISTATS), 2023.
Authors listed in alphabetical order.

4. Chirag Nagpal, **Olawale Salaudeen**, Sanmi Koyejo, Stephen Pfohl. "Addressing Observational Biases in Algorithmic Fairness Assessments." Conference on Neural Information Processing Systems (NeurIPS), 2022. Workshop on Algorithmic Fairness through the Lens of Causality and Privacy (AFCP) *(extended abstract)*.

3. Matt J. Kusner, Ibrahim Alabdulmohsin, Stephen Pfohl, **Olawale Salaudeen**, Arthur Gretton, Sanmi Koyejo, Jessica Schrouff, Alexander D'Amour.
Adapting to Shifts in Latent Confounders using Observed Concepts and Proxies International Conference on Machine Learning (ICML), 2022. Workshop on Principles of Distribution Shift (PODS)

2. Brad Sutton, Aaron Anderson, Benjamin Zimmerman, Paul Camacho, Riwei Jin, Charles Marchini, **Olawale Salaudeen**, Natalie Ramsy, Davide Boido, Serge Charpak, Andrew Webb, Luisa Ciobanu. "Ultra-fast 3D fMRI to explore cardiac-induced fluctuations in BOLD-based functional imaging." International Society for Magnetic Resonance in Medicine (ISMRM), 2022. *(abstract)*.

1. **Olawale Salaudeen**, Sanmi Koyejo. "Exploiting Causal Chains for Domain Generalization." Conference on Neural Information Processing Systems (NeurIPS), 2021. Workshop on Distribution Shifts – Connecting Methods and Applications (DistShift).

TALKS AND PRESENTATIONS

6. Learning Domain General Predictors
Simons Institute – Information-Theoretic Methods for Trustworthy Machine Learning   2023

5. Separating Neural Encoding and Decoding Pathways in fMRI by Disentangling Causal and Anti-causal Mechanisms
University of Illinois at Urbana-Champaign Minitature Brain Machinery Retreat   2022

4. Denoising fMRI via probabilistic graphical model augmentation of ICA-AROMA
University of Illinois at Urbana-Champaign Beckman Institute Graduate Student Seminar   2022
University of Illinois at Urbana-Champaign Minitature Brain Machinery Retreat   2021

3. Exploiting Causal Chains for Domain Generalization
Conference on Neural Information Processing Systems (NeurIPS), 2021. Workshop on Distribution Shifts – Connecting Methods and Applications (DistShift).   2021

2. Automated Incorporation of Machine Learning (AIM)
Sandia National Laboratories MARTIANS End of Summer Symposia   2020

1. Interpretable Recurrent Convolutional Neural Networks for Cyber Alert Triaging
Sandia National Laboratories MARTIANS End of Summer Symposia   2019

SELECTED FELLOWSHIPS, HONORS, AND AWARDS

Research Trainee, *NSF Miniature Brain Machinery at UIUC*	2021
GEM Associate Fellow, *University of Illinois at Urbana-Champaign*	2021
Beckman Institute Graduate Fellow, *University of Illinois at Urbana-Champaign*	2020
Sloan Scholar, *Alfred P. Sloan Foundation's Minority Ph.D. (MPHD) Program*	2019
Masters Fellowship Program (declined), *Sandia National Laboratories*	2019
Mechanical Engineering Advisory Council Scholarship, *Texas A&M University*	2018
Foundation Excellence Award, *Texas A&M University*	2017
Pi Tau Sigma – Sigma Delta, *National Mechanical Engineering Honors Society*	2016
Craig and Galen Brown Honors College of Engineering, *Texas A&M University*	2015
Regents Scholar Program, *Texas A&M University*	2015

SERVICE AND LEADERSHIP

Reviewing: JMLR 2023, NeurIPS 2022-23, NeurIPS AFCP Workshop 2022, ICML 2022-24 (*top reviewer award*), AISTATS 202, NeurIPS (BAI) Workshop 2021

University of Illinois at Urbana-Champaign

Blacks, Indigenous, and Latinx in Tech (BUILT), Executive Board	2022
Directed Reading Program, Mentor	2022
Graduate Study Committee, 1 of 2 Graduate Student Members	2022
Broadening Participation in Computing, Engagement Subcommittee Member	2021 - 2022
Graduates Engineers Diversifying Illinois, Mentor	2020 - 2022
Distributed Research Experiences for Undergraduates (DREU)	2021
Institute for Inclusion, Diversity, Equity, and Access (IDEA), Affiliate Member	2020 - Present

Texas A&M University

Craig and Galen Brown Engineering Honors Program, Executive Committee Chair	2018-2019
Texas A&M University Robotics Team and Leadership, President	2018-2019
Regents Scholarship Program, Mentor	2017-2019

External

The Institute for African-American Mentoring in Computing Sciences, Mentor	2023-Present

TEACHING

Data Visualization, Teaching Assistant – University of Illinois at Urbana-Champaign	2023
Foundations of Engineering – Python, Peer Teacher – Texas A&M University	2018-2019
Foundations of Engineering, Peer Teacher – Texas A&M University	2017-2018
Introduction to Microcontrollers, Co-Instructor – Sandia National Labs HMTech	2018, 2019