

# OLAWALE SALAUDEEN

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## APPOINTMENTS

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**Massachusetts Institute of Technology**

Postdoctoral Associate, Electrical Engineering & Computer Science

*September 2024 - Present*

Cambridge, MA

## EDUCATION

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**University of Illinois at Urbana-Champaign**

Ph.D. Candidate in Computer Science, advised by Sanmi Koyejo

*Thesis: Towards Externally Valid Machine Learning: A Spurious Correlations Perspective*

*August 2019 - August 2024*

Urbana, IL

**Stanford University**

Visiting Ph.D. Student in Computer Science, hosted by Sanmi Koyejo

*September 2022 - August 2024*

Stanford, CA

**Texas A&M University**

Bachelor of Science with honors in Mechanical Engineering

*August 2015 - May 2019*

College Station, TX

## REPRESENTATIVE PAPERS

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\* denotes equal contribution

3. **ImageNot: A Contrast with ImageNet preserves model rankings.** Olawale Salaudeen, Moritz Hardt. *Preprint. arXiv 2404.02112*.
2. **Causally Inspired Regularization Enables Domain General Representations.** Olawale Salaudeen, Oluwasanmi Koyejo. The International Conference on Artificial Intelligence and Statistics (AISTATS), 2024.
1. **Adapting to Latent Subgroup Shifts via Concepts and Proxies.** \*Ibrahim Alabdulmohsin, \*Nicole Chiou, \*Alexander D'Amour, \*Arthur Gretton, \*Sanmi Koyejo, \*Matt J. Kusner, \*Stephen R. Pfohl, \*Olawale Salaudeen, \*Jessica Schrouff, \*Katherine Tsai. The International Conference on Artificial Intelligence and Statistics (AISTATS), 2023.  
*Authors listed in alphabetical order.*

## REFEREED PUBLICATIONS

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\* denotes equal contribution

7. **Causally Inspired Regularization Enables Domain General Representations.** Olawale Salaudeen, Oluwasanmi Koyejo. The International Conference on Artificial Intelligence and Statistics (AISTATS), 2024.
6. **Proxy Methods for Domain Adaptation.** Olawale Salaudeen, Nicole Chiou, Matt J. Kusner, Alexander D'Amour, Sanmi Koyejo, Arthur Gretton. The International Conference on Artificial Intelligence and Statistics (AISTATS), 2024.
5. **Adapting to Latent Subgroup Shifts via Concepts and Proxies.** \*Ibrahim Alabdulmohsin, \*Nicole Chiou, \*Alexander D'Amour, \*Arthur Gretton, \*Sanmi Koyejo, \*Matt J. Kusner, \*Stephen R. Pfohl, \*Olawale Salaudeen, \*Jessica Schrouff, \*Katherine Tsai. The International Conference on Artificial Intelligence and Statistics (AISTATS), 2023.  
*Authors listed in alphabetical order.*

4. **Addressing Observational Biases in Algorithmic Fairness Assessments.** Chirag Nagpal, Olawale Salaudeen, Sanmi Koyejo, Stephen Pfohl. Conference on Neural Information Processing Systems (NeurIPS), 2022. Workshop on Algorithmic Fairness through the Lens of Causality and Privacy (AFCP) (*extended abstract*).
3. **Adapting to Shifts in Latent Confounders using Observed Concepts and Proxies.** Matt J. Kusner, Ibrahim Alabdulmohsin, Stephen Pfohl, Olawale Salaudeen, Arthur Gretton, Sanmi Koyejo, Jessica Schrouff, Alexander D’Amour. International Conference on Machine Learning (ICML), 2022. Workshop on Principles of Distribution Shift (PODS)
2. **Ultra-fast 3D fMRI to explore cardiac-induced fluctuations in BOLD-based functional imaging.** Brad Sutton, Aaron Anderson, Benjamin Zimmerman, Paul Camacho, Riwei Jin, Charles Marchini, Olawale Salaudeen, Natalie Ramsy, Davide Boido, Serge Charpak, Andrew Webb, Luisa Ciobanu. International Society for Magnetic Resonance in Medicine (ISMRM), 2022. (*abstract*).
1. **Exploiting Causal Chains for Domain Generalization.** Olawale Salaudeen, Sanmi Koyejo. Conference on Neural Information Processing Systems (NeurIPS), 2021. Workshop on Distribution Shifts – Connecting Methods and Applications (DistShift).

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## PREPRINTS

\* denotes equal contribution

1. **ImageNot: A Contrast with ImageNet preserves model rankings.** Olawale Salaudeen, Moritz Hardt. *Preprint. arXiv 2404.02112*.

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## SELECTED INVITED TALKS AND PRESENTATIONS

6. Towards Externally Valid Evaluation of AI Systems  
*MobiliT.AI forum* 2024  
*Shah Lab, Stanford University* 2024
5. Learning Domain General Predictors  
*Simons Institute – Information-Theoretic Methods for Trustworthy Machine Learning* 2023
4. Separating Neural Encoding and Decoding Pathways in fMRI by Disentangling Causal and Anticausal Mechanisms  
*University of Illinois at Urbana-Champaign Miniature Brain Machinery Retreat* 2022
3. 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 Miniature Brain Machinery Retreat* 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

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## SELECTED FELLOWSHIPS, HONORS, AND AWARDS

Research Trainee, <i>NSF Miniature Brain Machinery at UIUC</i>	2021
GEM Associate Fellow, <i>University of Illinois at Urbana-Champaign</i>	2021
Beckman Institute Graduate Fellow, <i>University of Illinois at Urbana-Champaign</i>	2020
Sloan Scholar, <i>Alfred P. Sloan Foundation’s Minority Ph.D. (MPHD) Program</i>	2019
Masters Fellowship Program (declined), <i>Sandia National Laboratories</i>	2019

Mechanical Engineering Advisory Council Scholarship, <i>Texas A&amp;M University</i>	2018
Foundation Excellence Award, <i>Texas A&amp;M University</i>	2017
Pi Tau Sigma – Sigma Delta, <i>National Mechanical Engineering Honors Society</i>	2016
Craig and Galen Brown Honors College of Engineering, <i>Texas A&amp;M University</i>	2015
Regents Scholar Program, <i>Texas A&amp;M University</i>	2015

## 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

## PREVIOUS EMPLOYMENT

Research Intern with <i>Dr. Moritz Hardt</i> <i>Max Planck Institute for Intelligent Systems Social Foundations of Computing</i>	09/2023 - 01/2024 <i>Tübingen, Germany</i>
Machine Learning Intern on Autonomous Vehicle Behaviors <i>Cruise LLC</i>	Summer 2023 <i>San Francisco, CA</i>
Student Researcher with <i>Dr. Alex D'Amour</i> <i>Google Brain</i>	05/2022 - 12/2022 <i>Cambridge, MA</i>
R&D Intern with <i>Dr. Eric Goodman</i> <i>Sandia National Laboratories</i>	05/2017 - 04/2022 <i>Albuquerque, NM</i>

## TEACHING AND MENTORSHIP

Uzma Hamid (LINXS @ Stanford University, Summer 2024)  
Vikram Duvvur (Undergrad @ UIUC, 2021-2022), Next MS in Machine Learning @ CMU  
Ahmed Elsayed (DREU @ UIUC, Summer 2021), Next Software Engineer at Microsoft

## SELECTED SERVICE AND LEADERSHIP

**Conference/Workshop Reviewer:** NeurIPS 2022-24, ICML 2022-24 (*top 10% reviewer award*), AISTATS 2022, NeurIPS AFCEP Workshop 2022, NeurIPS (BAI) Workshop 2021.

**Conference/Workshop Area Chair:** ICML TF2M 2024.

**Journal Reviewer:** JMLR 2023-24.

### University of Illinois at Urbana-Champaign

Blacks, Indigenous, and Latinx in Tech (BUILT), Executive Board	2022 - 2024
Directed Reading Program, Mentor	2022 - 2024
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 - 2024

### 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