

DYAH ADILA

RESEARCH INTERESTS	<i>Foundation Models, Robustness, Learning with limited data</i>	
CONTACT INFORMATION	<i>E-mail:</i> adila@wisc.edu <i>Website:</i> dyahadila.github.io	
EDUCATION	Ph.D. in Computer Science University of Wisconsin - Madison	Sep 2021 - Present
	• Advisor: Fred Sala	
	M.S. in Computer Science University of Minnesota - Twin Cities	Sep 2019 - May 2021
	• Advisor: Ju Sun	
	B.Eng. Nanyang Technological University (NTU), Singapore	Aug 2013 - Jun 2017
CONFERENCE & JOURNAL PUBLICATIONS	Dyah Adila* , C. Shin*, L. Cai, F. Sala, <i>Zero-Shot Robustification of Zero-Shot Models</i> , in International Conference on Learning Representations (ICLR) 2024. NeurIPS 2023 R0-FoMo Workshop. Oral presentation (best paper honorable mention) . [Paper] [Code] [Blog]	
	N. Roberts*, X. Li*, Dyah Adila , S. Crompt, B. Huang, J. Zhao, F. Sala, <i>Geometry-Aware Adaptation for Pretrained Models</i> , in Neural Information Processing Systems (NeurIPS), 2023. [Paper]	
	C. Shin, S. Crompt, Dyah Adila , S., F. Sala, <i>Mitigating Source Bias for Fairer Weak Supervision</i> , in Neural Information Processing Systems (NeurIPS), 2023. [Paper]	
	M. Chen*, D. Fu*, Dyah Adila , M. Zhang, F. Sala, K. Fatahalian, C. Ré, <i>Shoring Up the Foundations: Fusing Model Embeddings and Weak Supervision</i> , in Uncertainty in Artificial Intelligence (UAI), 2022. Oral presentation (best student paper runner-up) . [Paper] [Code]	
	N. Roberts*, X. Li*, B. Huang, Dyah Adila , S. Schoenberg, C. Liu, L. Pick, H. Ma, A. Albarghouthi, F. Sala, <i>AutoWS-Bench-101: Benchmarking Automated Weak Supervision with 100 Labels</i> , in Neural Information Processing Systems (NeurIPS), 2022. [Paper]	
WORKSHOP PUBLICATIONS	Dyah Adila , S. Crompt, S. Mo, F. Sala, <i>Causal Omnivore: Fusing Noisy Estimates of Spurious Correlations</i> , in ICML 2022 Workshop on Spurious Correlations, Invariance, and Stability. [Paper]	
	Dyah Adila , and Dongyeop Kang, <i>Understanding Out-of-distribution: A Perspective of Data Dynamics</i> , in NeurIPS 2021 Workshop: I Can't Believe It's Not Better!, PMLR 2022. [Paper]	
AWARDS	Qualcomm Innovation Fellowship Finalist	2024
	Best paper award honorable mention at NeurIPS R0-FoMo	2023
	ICCV DataComp winning team in small scale filtering track	2023
	UAI Best Student Paper Runner-up	2022
EXPERIENCE	University of Wisconsin-Madison, USA	Aug 2021 - Present
	<i>Research Assistant</i> <ul style="list-style-type: none">• Ph.D. research in Machine Learning advised by Fred Sala.	
	Amazon Web Services AI, USA	Sep 2023 - Dec 2023
	<i>Applied Scientist Intern</i> <ul style="list-style-type: none">• Designed attention steering method to mitigate cognitive and social bias in foundation models.	

University of Minnesota, USA**May 2020 - May 2021***Research Assistant*

- Developed a rapid diagnostic model for COVID-19 in chest X-rays and built GAN for data augmentation to tackle class imbalance.
- Press coverage: [\[Link 1\]](#) [\[Link 2\]](#) [\[Link 3\]](#)

Traveloka, Indonesia**Jul 2017 - Jul 2019***Software Engineer*

- Led the development of company-wide React Native user interface library (runs on Android and iOS), which speed up development time by 2x.
- Built Traveloka's customer-facing and business-facing mobile applications.

JPMorgan Chase, Singapore**May 2016 - Jul 2016***Software Engineer Intern*

- Built a real-time log monitoring tool to keep track of daily transactions using Java.
- Built an API for multiple currency transfer application.

Seagate Technology, Singapore**Jan 2016 - May 2016***Research Engineer Intern*

- Built a continuous integration framework to automate Seagate's build and test pipelines.

TECHNICAL SKILLS

- **Competent:** Python, PyTorch, TensorFlow, Java, Unix, Google Cloud Platform, JavaScript
- **Familiar:** SQL, AWS, Apache Spark