

# 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	<b>Sep 2021 - Present</b>
	• Advisor: Fred Sala	
	M.S. in Computer Science University of Minnesota - Twin Cities	<b>Sep 2019 - May 2021</b>
	• Advisor: Ju Sun	
	B.Eng. Nanyang Technological University (NTU), Singapore	<b>Aug 2013 - Jun 2017</b>
CONFERENCE & JOURNAL PUBLICATIONS	<b>Dyah Adila</b> , Zhang. S, Han. B, Wang. Y, <i>Discovering Bias in Latent Space: An Unsupervised Debiasing Approach</i> , in International Conference on Machine Learning (ICML), 2024.	
	<b>Dyah Adila*</b> , 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. <b>Oral presentation (best paper honorable mention)</b> . <a href="#">[Paper]</a> <a href="#">[Code]</a> <a href="#">[Blog]</a>	
	N. Roberts*, X. Li*, <b>Dyah Adila</b> , S. Crompt, B. Huang, J. Zhao, F. Sala, <i>Geometry-Aware Adaptation for Pretrained Models</i> , in Neural Information Processing Systems (NeurIPS), 2023. <a href="#">[Paper]</a>	
	C. Shin, S. Crompt, <b>Dyah Adila</b> , S., F. Sala, <i>Mitigating Source Bias for Fairer Weak Supervision</i> , in Neural Information Processing Systems (NeurIPS), 2023. <a href="#">[Paper]</a>	
	M. Chen*, D. Fu*, <b>Dyah Adila</b> , 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. <b>Oral presentation (best student paper runner-up)</b> . <a href="#">[Paper]</a> <a href="#">[Code]</a>	
	N. Roberts*, X. Li*, B. Huang, <b>Dyah Adila</b> , 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. <a href="#">[Paper]</a>	
WORKSHOP PUBLICATIONS	<b>Dyah Adila</b> , 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. <a href="#">[Paper]</a>	
	<b>Dyah Adila</b> , 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. <a href="#">[Paper]</a>	
AWARDS	<b>Qualcomm Innovation Fellowship Finalist</b>	2024
	<b>Best paper award honorable mention at NeurIPS R0-FoMo</b>	2023
	<b>ICCV DataComp winning team in small scale filtering track</b>	2023
	<b>UAI Best Student Paper Runner-up</b>	2022
EXPERIENCE	<b>University of Wisconsin-Madison, USA</b> <i>Research Assistant</i> • Ph.D. research in Machine Learning advised by Fred Sala.	<b>Aug 2021 - Present</b>
	<b>Amazon Web Services AI, USA</b> <i>Applied Scientist Intern</i>	<b>Fall 2023, Summer 2024</b>

- Designed method to denoise retrieval augmented generation (RAG) knowledge base (Summer'24).
- Designed attention steering method to mitigate cognitive and social bias in foundation models, results published in ICML 2024. (Fall'23)

**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