

# DYAH ADILA

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CONTACT INFORMATION	<i>E-mail:</i> adila@wisc.edu <i>Website:</i> dyahadila.github.io	
EDUCATION	<b>University of Wisconsin - Madison</b> , United States <i>Doctor of Philosophy (Computer Science)</i> <ul style="list-style-type: none"><li>• Advisor: Fred Sala</li></ul>	<b>Sep 2021 - Present</b>
	<b>University of Minnesota - Twin Cities</b> , United States <i>Master of Science (Computer Science)</i> (CGPA: 4.0/4.0) <ul style="list-style-type: none"><li>• Advisor: Ju Sun</li><li>• Thesis: Machine Learning for COVID-19 Identification.</li></ul>	<b>Sep 2019 - May 2021</b>
	<b>Nanyang Technological University (NTU)</b> , Singapore <i>Bachelor of Engineering (Electrical and Electronic Engineering)</i>	<b>Aug 2013 - Jun 2017</b>
CONFERENCE & JOURNAL PUBLICATIONS	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>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>  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>	
PRE-PRINTS	<b>Dyah Adila*</b> , C. Shin*, L. Cai, F. Sala, <i>Zero-Shot Robustification of Zero-Shot Models</i> , under review, 2023. <a href="#">[Paper]</a> <a href="#">[Code]</a> <a href="#">[Blog]</a>	
WORKSHOP PUBLICATIONS	<b>Dyah Adila</b> , C. Shin, L. Cai, F. Sala, <i>Foundation Models Can Robustify Themselves, For Free</i> , in NeurIPS 2023 Workshop in Robustness of Few-shot and Zero-shot Learning in Foundation Models (R0-FoMo). <b>Oral presentation</b> .  <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>ICCV 2023 DataComp winning team in filtering track (small scale)</b> <b>UAI Best Student Paper Runner-up</b>	2023 2022
EXPERIENCE	<b>University of Wisconsin-Madison, USA</b> <i>Research Assistant</i> <ul style="list-style-type: none"><li>• Ph.D. research in Machine Learning advised by Fred Sala.</li></ul>	<b>Aug 2021 - Present</b>

**Amazon Web Services AI, USA**

**Sep 2023 - Present**

*Applied Scientist Intern*

- Design an 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