

# Jacob Morrison

Ph.D. Student, UW Computer Science & Engineering

Student Researcher, Allen Institute for AI

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🏡 jacobmorrison.com

## Research Interests

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My research focuses on making language models broadly useful and reliable through data-centric methods and evaluation, and advancing open science by publicly releasing models, datasets, and training infrastructure. I also study the environmental and societal impacts of AI systems, working at the intersection of technical research and public policy.

## Education

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### University of Washington

Seattle, WA

Ph.D. in Computer Science

2025 - Present

- Advisors: Noah Smith & Banghua Zhu

### University of Washington

Seattle, WA

M.S. in Computational Linguistics

2021 - 2022

### University of Washington

Seattle, WA

B.S. in Computer Science

2013 - 2017

- Minor in Mathematics

## Awards & Fellowships

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- 2025 **Mercor**, Graduate Fellowship Finalist
- 2025 **Massachusetts Institute of Technology**, EECS Merrill Lynch Ph.D. Fellowship (Declined)
- 2025 **University of California, Berkeley**, EECS Ph.D. Fellowship (Declined)
- 2025 **Carnegie Mellon University**, LTI Ph.D. Fellowship (Declined)
- 2025 **University of Toronto**, Departmental Ph.D. Fellowship; Vector Research Grant (Declined)
- 2024 **ACL 2024**, Theme Paper Award
- 2024 **ACL 2024**, Best Resource Paper Award
- 2024 **GeekWire**, Innovation of the Year Award
- 2023 **National Science Foundation**, Computer Science Graduate Fellowship

## Experience

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### University of Washington, Computer Science & Engineering

Seattle, WA

Ph.D. Student

Sep 2025 - Present

- Advisors: Noah Smith & Banghua Zhu

### Allen Institute for AI

Seattle, WA

Student Researcher

Sep 2025 - Present

- Host: Hannaneh Hajishirzi

Predoctoral Young Investigator

Jan 2023 - Sep 2025

- Mentors: Pradeep Dasigi & Jesse Dodge

### X, the moonshot factory

Mountain View, CA

AI Resident

Summer 2022

### Twitter

Seattle, WA

Data Scientist Intern

Summer 2021

### Allen Institute for AI

Seattle, WA

Research Engineer Intern

Spring 2021

### Google

Kirkland, WA

Software Engineer

Jan 2019 - Feb 2021

### Tableau

Seattle, WA

Software Engineer

Sep 2017 - Dec 2018

# Publications

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## Olmo 3

OLMo Team, Allyson Ettinger\*, Amanda Bertsch\*, Bailey Kuehl\*, David Graham\*, David Heineman\*, Dirk Groeneveld\*, Faeze Brahman\*, Finbarr Timbers\*, Hamish Ivison\*, **Jacob Morrison\***, Jake Poznanski\*, Kyle Lo\*, Luca Soldaini\*, Matt Jordan\*, Mayee Chen\*, Michael Noukhovitch\*, Nathan Lambert\*, Pete Walsh\*, Pradeep Dasigi\*, Robert Berry\*, Saumya Malik\*, Saurabh Shah\*, Scott Geng\*, Shane Arora\*, Shashank Gupta\*, Taira Anderson\*, Teng Xiao\*, Tyler Murray\*, Tyler Romero\*, Victoria Graf\*, Akari Asai, Akshita Bhagia, Alex Wettig, Alisa Liu, Aman Rangapur, Chloe Anastasiades, Costa Huang, Dustin Schwenk, Harsh Trivedi, Ian Magnusson, Jaron Lochner, Jiacheng Liu, Lj Miranda, Maarten Sap, Malia Morgan, Michael Schmitz, Michal Guerquin, Michael Wilson, Regan Huff, Ronan Le Bras, Rui Xin, Rulin Shao, Sam Skjonsberg, Shannon Zejiang Shen, Shuyue Stella Li, Tucker Wilde, Valentina Pyatkin, Will Merrill, Yapei Chang, Yuling Gu, Zhiyuan Zeng, Ashish Sabharwal, Luke Zettlemoyer, Pang Wei Koh, Ali Farhadi, Noah A. Smith\*, Hannaneh Hajishirzi\*

*Technical Report, 2025*

## OlmoEarth

OlmoEarth Team, Yawen Zhang, Gabriel Tseng, Joseph Redmon, Henry Herzog, Favyen Bastani, Hadrien Sablon, Ryan Park, **Jacob Morrison**, Alex Buraczynski, Karen Farley, Josh Hansen, Andrew Howe, Patrick Johnson, Mark Otterlee, Hunter Pitelka, Rachel Ratner, Ted Schmitt, Chris Wilhelm, Sebastian Wood, Mike Jacobi, Hannah Kerner, Evan Shelhamer, Ali Farhadi, Ranjay Krishna, Patrick Beukema

*Under review, CVPR 2026*

## FlexOLMo: Open Language Models for Flexible Data Use

Weijia Shi, Akshita Bhagia, Kevin Farhat, Niklas Muennighoff, Evan Pete Walsh, **Jacob Morrison**, Dustin Schwenk, Shayne Longpre, Jake Poznanski, Allyson Ettinger, Daogao Liu, Margaret Li, Mike Lewis, Wen-tau Yih, Dirk Groeneveld, Luca Soldaini, Kyle Lo, Noah A. Smith, Luke Zettlemoyer, Pang Wei Koh, Hannaneh Hajishirzi, Ali Farhadi, Sewon Min

*NeurIPS 2025 (spotlight)*

## RewardBench 2: Advancing Reward Model Evaluation

Saumya Malik, Valentina Pyatkin, Sander Land, **Jacob Morrison**, Noah A. Smith, Hannaneh Hajishirzi, Nathan Lambert  
*ICLR 2026*

## 2 OLMo 2 Furious

OLMo Team, Pete Walsh, Luca Soldaini, Dirk Groeneveld, Kyle Lo, Shane Arora, Akshita Bhagia, Yuling Gu, Shengyi Huang, Matt Jordan, Nathan Lambert, Dustin Schwenk, Oyvind Tafjord, Taira Anderson, David Atkinson, Faeze Brahman, Christopher Clark, Pradeep Dasigi, Nouha Dziri, Michal Guerquin, Hamish Ivison, Pang Wei Koh, Jiacheng Liu, Saumya Malik, William Merrill, Lester James V. Miranda, **Jacob Morrison**, Tyler Murray, Crystal Nam, Valentina Pyatkin, Aman Rangapur, Michael Schmitz, Sam Skjonsberg, David Wadden, Christopher Wilhelm, Michael Wilson, Luke Zettlemoyer, Ali Farhadi, Noah A. Smith, Hannaneh Hajishirzi

*COLM 2025*

## Tülu 3: Pushing Frontiers in Open Language Model Post-Training

Nathan Lambert, **Jacob Morrison**, Valentina Pyatkin, Shengyi Huang, Hamish Ivison, Faeze Brahman, Lester James V. Miranda, Alisa Liu, Nouha Dziri, Shane Lyu, Yuling Gu, Saumya Malik, Victoria Graf, Jena D. Hwang, Jiangjiang Yang, Ronan Le Bras, Oyvind Tafjord, Chris Wilhelm, Luca Soldaini, Noah A. Smith, Yizhong Wang, Pradeep Dasigi, Hannaneh Hajishirzi

*COLM 2025*

## Holistically Evaluating the Environmental Impact of Creating Language Models

**Jacob Morrison**, Clara Na, Jared Fernandez, Tim Dettmers, Emma Strubell, Jesse Dodge  
*ICLR 2025 (spotlight)*

## OLMoE: Open Mixture-of-Experts Language Models

Niklas Muennighoff, Luca Soldaini, Dirk Groeneveld, Kyle Lo, **Jacob Morrison**, Sewon Min, Weijia Shi, Pete Walsh, Oyvind Tafjord, Nathan Lambert, Yuling Gu, Shane Arora, Akshita Bhagia, Dustin Schwenk, David Wadden, Alexander Wettig, Binyuan Hui, Tim Dettmers, Douwe Kiela, Ali Farhadi, Noah A. Smith, Pang Wei Koh, Amanpreet Singh, Hannaneh Hajishirzi

*NeurIPS 2024 Workshop on Efficient Natural Language and Speech Processing (spotlight)*

*ICLR 2025 (oral)*

## Merge to Learn: Efficiently Adding Skills to Language Models with Model Merging

**Jacob Morrison**, Noah A. Smith, Hannaneh Hajishirzi, Pang Wei Koh, Jesse Dodge, Pradeep Dasigi  
*Findings of EMNLP 2024*

## SciRIFF: A Resource to Enhance LM Instruction-Following over Scientific Literature

David Wadden\*, Kejian Shi\*, **Jacob Morrison**, Alan Li, Aakanksha Naik, Shruti Singh, Nitzan Barzilay, Kyle Lo, Tom Hope, Luca Soldaini, Shannon Shen, Doug Downey, Hanna Hajishirzi, Arman Cohan

*NeurIPS 2024 Workshop on Foundation Models for Science*

*EMNLP 2025*

## RewardBench: Evaluating Reward Models for Language Modeling

Nathan Lambert, Valentina Pyatkin, **Jacob Morrison**, LJ Miranda, Bill Yuchen Lin, Khyathi Chandu, Tom Zick, Yejin Choi, Noah A. Smith, Hannaneh Hajishirzi  
*Findings of NAACL 2025*

## OLMo: Accelerating the Science of Language Models

Dirk Groeneveld, Iz Beltagy, Pete Walsh, Akshita Bhagia, Rodney Kinney, Oyvind Tafjord, Ananya Harsh Jha, Hamish Ivison, Ian Magnusson, Yizhong Wang, Shane Arora, David Atkinson, Russell Authur, Khyathi Chandu, Arman Cohan, Jennifer Dumas, Yanai Elazar, Yuling Gu, Jack Hessel, Tushar Khot, William Merrill, **Jacob Morrison**, Niklas Muennighoff, Aakanksha Naik, Crystal Nam, Matthew E. Peters, Valentina Pyatkin, Abhilasha Ravichander, Dustin Schwenk, Saurabh Shah, Will Smith, Emma Strubell, Nishant Subramani, Mitchell Wortsman, Pradeep Dasigi, Nathan Lambert, Kyle Richardson, Jesse Dodge, Kyle Lo, Luca Soldaini, Noah A. Smith, Hannaneh Hajishirzi

ACL 2024 **Theme Paper Award**

Dolma: An Open Corpus of Three Trillion Tokens for Language Model Pretraining Research

Luca Soldaini, Rodney Kinney, Akshita Bhagia, Dustin Schwenk, David Atkinson, Russell Author, Ben Bogin, Khyathi Chandu, Jennifer Dumas, Yanai Elazar, Valentin Hofmann, Ananya Harsh Jha, Sachin Kumar, Li Lucy, Xinxin Lyu, Nathan Lambert, Ian Magnusson, **Jacob Morrison**, Niklas Muennighoff, Aakanksha Naik, Crystal Nam, Matthew E. Peters, Abhilasha Ravichander, Kyle Richardson, Zejiang Shen, Emma Strubell, Nishant Subramani, Oyvind Tafjord, Evan Pete Walsh, Hannaneh Hajishirzi, Noah A. Smith, Luke Zettlemoyer, Iz Beltagy, Dirk Groeneveld, Jesse Dodge, Kyle Lo

ACL 2024 **Best Resource Paper Award**

Intentionally Unintentional Speech: Why Generative AI Models Are Not Protected by the First Amendment

David Atkinson, Jena D. Hwang, **Jacob Morrison**

*First Amendment Law Review (University of North Carolina), 2024*

Unsettled Law in the Age of Generative AI: Time to Generate New Approaches?

David Atkinson, **Jacob Morrison**

*Journal of Law and Technology at Texas, 2024*

A Legal Risk Taxonomy for Generative Artificial Intelligence

David Atkinson, **Jacob Morrison**

*arXiv report, 2024*

Bidimensional Leaderboards: Generate and Evaluate Language Hand in Hand

Jungo Kasai, Keisuke Sakaguchi, Ronan Le Bras, Lavinia Dunagan, **Jacob Morrison**, Alexander Fabbri, Yejin Choi, Noah A. Smith

NAACL 2022

Transparent Human Evaluation for Image Captioning

Jungo Kasai, Keisuke Sakaguchi, Lavinia Dunagan, **Jacob Morrison**, Ronan Le Bras, Yejin Choi, Noah A. Smith

NAACL 2022

\* indicates equal contribution

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## Invited Talks & Presentations

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### Georgetown Law

November 2025

RewardBench: Evaluating Reward Models for Language Modeling

### North American Summer School for Logic, Language and Information

June 2025

AI for Legal Interpretation?

### Washington State House Consumer Protection & Business Committee

July 2024

Technical and Policy Considerations for Generative AI

### Morgan Stanley

July 2024

Legal Risks for Generative AI

### Bill & Melinda Gates Foundation

May 2024

OLMo: A Truly Open Language Model

### State of Washington AI Community of Practice

Nov 2023

Responsible, Real World AI Development and Deployment

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## Press & Media

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### Why is Everyone So Wrong About AI Water Use??

December 2025

Hank Green (YouTube, >3.5m views)

### A new kind of AI model gives data owners more control

July 2025

Wired

### Your AI models are failing in production – Here's how to fix model selection

June 2025

VentureBeat

### AI & climate: a first of its kind conversation on the hill

February 2024

Ai2 Blog

### City of Seattle Releases Generative Artificial Intelligence Policy for City Employees

November 2023

Office of the Mayor of Seattle

### Tech policy leaders explore new frontiers for supporting (and regulating) AI at forum

August 2023

GeekWire

- Organized the Future of AI Forum with U.S. Senator Maria Cantwell's office

## Teaching Experience

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### **University of Washington, Computer Science & Engineering**

*Seattle, WA*

Head Teaching Assistant

*Fall 2022*

- Lead a team of five TAs for a natural language processing course with over fifty undergraduate and graduate students
- Coordinated and managed all grading, office hours and guest lectures

### **University of Washington, Mathematics Department**

*Seattle, WA*

Grading Assistant

*Mar 2014 - Jun 2016*

- Graded weekly differential equations, linear analysis and multivariable calculus assignments
- Calculated, recorded and ensured the accuracy of grades for 100-200 students per quarter

### **University of Washington, Computer Science & Engineering**

*Seattle, WA*

Teaching Assistant

*Fall 2015*

- Taught weekly sections, covering introductory programming concepts and departmental best practices
- Created lesson plans and grading criteria, and set points of emphasis with other TAs and instructors
- Received an above average rating, including in teaching effectiveness and feedback quality

## Service

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### **Reviewer**

COLM (2024, 2025)

ACL Rolling Review (Jun 2024 - Present)

ICLR (2025, 2026)

ICML GenLaw Workshop (2024)