Jillian Fisher

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EDUCATION

University of Washington – Doctorate, Statistics — AUGUST 2020 - JUNE 2025
Texas A&M University – Master of Science, Statistics — JANUARY 2018 - DECEMBER 2019
University of Texas at Austin – Bachelor of Arts, Mathematics and Psychology — AUGUST 2011 - MAY 2015

CURRENT RESEARCH

Collaborating with advisors Yejin Choi in the Paul G. Allen School of Computer Science and Engineering and Zaid Harchaoui in the Statistics Department at the University of Washington on projects that leverage statistical tools to advance methods in natural language processing. Current work centers on limitations and interpretability of large language models.

PUBLICATIONS

- **Jillian Fisher**, Ximing Lu, Jaehun Jung, Liwei Jiang, Zaid Harchaoui, Yejin Choi. "MASQUERADE DECODING: Authorship Obfuscation without Supervision." (in review)
- Lu, Ximing, Faeze Brahman, Peter West, Jaehun Jang, Khyathi Raghavi Chandu, Abhilasha Ravichander, Lianhui Qin, Prithviraj Ammanabrolu, Liwei Jiang, Sahana Ramnath, Nouha Dziri, **Jillian Fisher**, Bill Yuchen Lin, Skyler Hallinan, Xiang Ren, Sean Welleck and Yejin Choi. "Inference-Time Policy Adapters (IPA): Tailoring Extreme-Scale LMs without Fine-tuning." EMNLP 2024 https://arxiv.org/pdf/2305.15065.pdf
- Jung, Jaehun, Peter West, Liwei Jiang, Faeze Brahman, Ximing Lu, **Jillian Fisher**, Taylor Sorensen and Yejin Choi. "Impossible Distillation: from Low-Quality Model to High-Quality Dataset & Model for Summarization and Paraphrasing." May 2023 https://arxiv.org/abs/2305.16635
- **Jillian Fisher**, Lang Liu, Krishna Pillutla, Yejin Choi, Zaid Harchaoui. "Statistical and Computational Guarantees for Influence Diagnostics."Artificial Intelligence and Statistics (AISTAT) 2023 https://arxiv.org/pdf/2212.04014.pdf
  **Awarded Honorable Mention* : ASA Statistical Learning and Data Science 2023 Student Paper Award Competition
- **Jillian Fisher**, Krishna Pillutla, Liwei Jiang, Swabha Swayamdipta, Zaid Harchaoui ,Yejin Choi. "Model Editing in Language Models Using Influence Functions" Presentation at Joint Statistical Meeting 2022

WORK EXPERIENCE

Allen Institute for Artificial Intelligence, Seattle, WA – Mosaic Research Intern — JUNE 2022 – SEPTEMBER 2022
- Led a project which aimed to enhance models' ability to construct more human-aligned advice
- Utilized large transformers (11B parameters) pretrained models to explore the current abilities of advice giving
- Constructed and conducted 500+ user studies using Amazon Mechanical Turk to analyze human-alignment

Amazon AWS, Seattle, WA – Data Science Intern — JUNE 2021 – JUNE 2022
- Doubled accuracy of AWS hiring forecast, improving hiring funnel to accurately direct talent acquisition team
- Coded, optimized, and deployed Python and SQL scripts to correctly integrate cycle time into the hiring forecast
- Conducted analysis on 1.5M data points of demographic diversity and market factors, incorporating multiple content sources (including BLS) to drive 2022 hiring goals

Whole Foods, Austin, TX – Category Merchant Data Analytics Intern — JUNE 2020 – SEPTEMBER 2020
- Directed team of four analysts to create comprehensive monthly reports on grocery categories for buyers
- Analyzed and presented financial and behavioral data using Tableau to optimize product category metrics
- Designed three new analytics templates that enabled novel insights used for product assortment selection
- Leveraged Dunnhumby, Nielsen, and Mintel data to formulate KPIs and drive purchasing decisions

H-E-B, San Antonio, TX – HR Data Analytics Intern — JUNE 2019 – JANUARY 2020
*H-E-B is a grocery store empire in Texas and Mexico (350+ stores) that is an emerging technology company.
- Analyzed and presented HR data on employee engagement, company margin, and operational efficiency
- Analyzed exit data on 12K+ warehouse employees that identified savings of $2.4 million/year
- Designed and led a multi-stage survey experiment to improve talent assessment process for 100K+ employees
- Transitioned from summer intern to contract employee in August 2019

SKILLS & TOOLS

• Python (Pytorch) • Machine Learning • Natural Language Processing • Statistics • Psychology