

# Jonathan Ivey

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## Education

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### Ph.D. in Computer Science

Johns Hopkins University

Advisors: Anjalie Field and Ziang Xiao

Aug. 2025 – Present

Baltimore, MD

### Honors B.S. in Data Science & B.A. in Mathematics

University of Arkansas

Aug. 2021 – May 2025

Fayetteville, AR

## Research Projects

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### Separating Signal from Noise in Annotator Disagreement

*Under Review*

*Research Mentors:* Dr. David Jurgens, Dr. Susan Gauch

*Institution:* University of Michigan – School of Information

### Assessing Whether LLMs Accurately Simulate Qualities of Human Responses

*Under Review*

*Research Mentor:* Dr. David Jurgens

*Institution:* University of Michigan – School of Information

### Improving Minority Stress Detection with Emotions

*eKNOW 24*

*Research Mentor:* Dr. Susan Gauch

*Institution:* University of Arkansas – Computer Science Department

## Publications and Preprints

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**Jonathan Ivey**, Susan Gauch, and David Jurgens. 2025. NUTMEG: Separating Signal From Noise in Annotator Disagreement.

**Jonathan Ivey**, Shivani Kumar, Jiayu Liu, Hua Shen, Sushrita Rakshit, Rohan Raju, Haotian Zhang, Aparna Ananthasubramaniam, Junghwan Kim, Bowen Yi, Dustin Wright, Abraham Israeli, Anders Giovanni Møller, Lechen Zhang, and David Jurgens. 2024. Real or Robotic? Assessing Whether LLMs Accurately Simulate Qualities of Human Responses in Dialogue. *arXiv preprint arXiv:2409.08330*.

**Jonathan Ivey** and Susan Gauch. 2024. Improving Minority Stress Detection with Emotions. In *The Sixteenth International Conference on Information, Process, and Knowledge Management, eKNOW24*.

## Presentations

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**Jonathan Ivey**, Susan Gauch, and David Jurgens. January 2025. Separating Signal From Noise in Annotator Disagreement. *STEM at the Capitol*. Little Rock, AR, USA.

**Jonathan Ivey** and David Jurgens. July 2024. Separating Signal From Noise in Annotator Disagreement. *Summer Research Opportunity Program Research Symposium*. Ann Arbor, MI, USA.

**Jonathan Ivey** and Susan Gauch. May 2024. Improving Minority Stress Detection with Emotions. *The Sixteenth Annual Conference on Information, Process, and Knowledge Management (eKNOW 2024)*. Barcelona, Spain.

**Jonathan Ivey** and Susan Gauch. April 2023. Emotion-infused Models for Minority Stress Detection. *Data Analytics that Are Robust and Trusted Conference*. Springdale, AR, USA.

**Jonathan Ivey** and Susan Gauch. April 2023. Emotion-infused Models for Minority Stress Detection. *University of Arkansas Honors College Poster Competition*. Fayetteville, AR, USA.

## Industry Experience

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| <b>Qualitative Research Analyst</b><br><i>University of Arkansas Division of Student Affairs</i> | <b>May 2023 – Aug. 2023</b><br><i>Fayetteville, AR</i> |
| <b>Data Science Intern</b><br><i>J.B. Hunt Transport Services</i>                                | <b>June 2022 – Aug. 2022</b><br><i>Lowell, AR</i>      |
| <b>Business Intelligence Intern</b><br><i>ArcBest Technologies</i>                               | <b>June 2021 – Aug. 2021</b><br><i>Fort Smith, AR</i>  |
| <b>Business Intelligence Intern</b><br><i>ArcBest Technologies</i>                               | <b>June 2021 – Aug. 2021</b><br><i>Fort Smith, AR</i>  |

## Awards & Honors

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| <b>Senior Honor Citation</b><br><i>Arkansas Alumni Association</i>                                           | <b>May 2025</b>  |
| <b>Best Transfer of Knowledge Award</b><br><i>University of Arkansas Data Science Program</i>                | <b>May 2025</b>  |
| <b>Outstanding Undergraduate Researcher Award</b><br><i>Computing Research Association</i>                   | <b>Jan. 2025</b> |
| <b>Honors Undergraduate of the Year</b><br><i>University of Arkansas Data Science Program</i>                | <b>May 2024</b>  |
| <b>Outstanding Policy of the Year</b><br><i>University of Arkansas Associated Student Government</i>         | <b>Apr. 2024</b> |
| <b>Goldwater Scholarship Nominee</b><br><i>Barry Goldwater Scholarship Foundation</i>                        | <b>Dec. 2023</b> |
| <b>Honors College Research Grant</b><br><i>University of Arkansas Honors College</i>                         | <b>Dec. 2023</b> |
| <b>Outstanding Cabinet Member of the Year</b><br><i>University of Arkansas Associated Student Government</i> | <b>Apr. 2023</b> |
| <b>Bodenhamer Fellowship</b><br><i>University of Arkansas Honors College</i>                                 | <b>June 2021</b> |

## Leadership & Campus Engagement

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| <b>Razorback Action Group Member</b><br><i>University of Arkansas Associated Student Government</i> | <b>Sept. 2024 – Mar. 2025</b> |
| <b>Director of Policy</b><br><i>University of Arkansas Associated Student Government</i>            | <b>Apr. 2023 – Apr. 2024</b>  |
| <b>Vice Chancellor of Research and Innovation Search Committee</b><br><i>University of Arkansas</i> | <b>Jan. 2023 – Sept. 2023</b> |
| <b>ACT and Mathematics Tutor</b><br><i>University of Arkansas</i>                                   | <b>Sept. 2021 – Aug. 2023</b> |

**Director of Student Relations**

*University of Arkansas Associated Student Government*

**Apr. 2022 – Apr. 2023**

**Co-Founder**

*The Quiz Bowl Club at the University of Arkansas*

**Sept. 2021 – Sept. 2022**