

Jiaming Qu

University of North Carolina at Chapel Hill
School of Information and Library Science

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EDUCATION

University of North Carolina at Chapel Hill

Ph.D. in Information Science, 2025 (exp.)

Dissertation Title: Explaining Predictive but Unintuitive Features in XAI-Assisted Decision-making

University of North Carolina at Chapel Hill

M.S. in Information Science, 2019

Thesis Title: A Medical Literature Search System for Identifying Effective Treatments in Precision Medicine

Nanjing Forestry University

B.S. in Information Management and Information System, 2017

WORK EXPERIENCE

University of North Carolina at Chapel Hill

Graduate Research Assistant

08/2019 – present

Alexa AI, Amazon

Applied Scientist Intern

05/2023 – 08/2023

Alexa AI, Amazon

Applied Scientist Intern

05/2022 – 08/2022

PUBLICATIONS

REFEREED CONFERENCE PAPERS

1. **Jiaming Qu**, Jaime Arguello, Yue Wang. Why is “Problems” Predictive of Positive Sentiment? A Case Study of Explaining Unintuitive Features in Sentiment Classification. In *Proceedings of the 2024 ACM Conference on Fairness, Accountability, and Transparency (FAccT 2024)*. (acceptance rate: 24.1%)
2. **Jiaming Qu**, Jaime Arguello, Yue Wang. Understanding the Cognitive Influences of Interpretability Features on How Users Scrutinize Machine-Predicted Categories. In *Proceedings of the 2023 ACM SIGIR Conference on Human Information Interaction and Retrieval (CHIIR 2023)*. (acceptance rate: 39.4%)
3. **Jiaming Qu**, Jaime Arguello, and Yue Wang. A Study of Explainability Features to Scrutinize Faceted Filtering Results. In *Proceedings of the 30th ACM International Conference on Information & Knowledge Management (CIKM 2021)*. (acceptance rate: 21.7%)
4. **Jiaming Qu**, Jaime Arguello, Yue Wang. A Deep Analysis of an Explainable Retrieval Model for Precision Medicine Literature Search. In *Proceedings of the 43rd European Conference on Information Retrieval (ECIR 2021)*. (acceptance rate: 24.1%)

5. **Jiaming Qu**, Jaime Arguello, Yue Wang. Towards Explainable Retrieval Models for Precision Medicine Literature Search. In *Proceedings of the 43rd International ACM SIGIR Conference on Research and Development in Information Retrieval* (SIGIR 2020). (acceptance rate: 29.98%)

NON-REFEREED WORKS

6. **Jiaming Qu**, Yue Wang. UNC SILS at TREC 2019 Precision Medicine Track, in *Proceedings of the 28th Text Retrieval Conference* (TREC 2019).
7. **Jiaming Qu**, Yue Wang. UNC SILS at TREC 2019 News Track, in *Proceedings of the 28th Text Retrieval Conference* (TREC 2019).

SERVICE

- | | |
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| 2024 | Program Committee, SIGIR 2024
Program Committee, CHI 2024 |
| 2023 | Program Committee, WWW 2023
Program Committee, ICTIR 2023
Student volunteer, CHIIR 2023
Student volunteer, WWW 2023 |
| 2021 | Reviewer, the Neurocomputing journal |

PRESENTATIONS

1. “Why is ‘Problems’ Predictive of Positive Sentiment? A Case Study of Explaining Unintuitive Features in Sentiment Classification.” Conference presentation at FAccT 2024. Online.
2. “Understanding the Cognitive Influences of Interpretability Features on How Users Scrutinize Machine-Predicted Categories.” Conference presentation at CHIIR 2023. Austin, TX.
3. “A Study of Explainability Features to Scrutinize Faceted Filtering Results.” Conference presentation at CIKM 2021. Online.
4. “A Deep Analysis of an Explainable Retrieval Model for Precision Medicine Literature Search.” Conference presentation at ECIR 2021. Online.
5. “Towards Explainable Retrieval Models for Precision Medicine Literature Search.” Conference presentation at SIGIR 2020. Online.
6. “UNC SILS at TREC 2019 Precision Medicine Track.” Conference presentation at TREC 2019. Gaithersburg, MD.
7. “UNC SILS at TREC 2019 News Track.” Conference presentation at TREC 2019. Gaithersburg, MD.
8. “Book Genre Prediction using Machine Learning.” Guest Lecturer Presentation at the INLS 690 (Data Mining and Applications) course. Chapel Hill, NC.

TEACHING AND MENTORING

as TEACHING ASSISTANT

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|------|------|---------------------------------|-------------|
| 2020 | Fall | INLS 509, Information Retrieval | 24 Students |
|------|------|---------------------------------|-------------|

as MENTOR

2022 – 2024 **Zichang Ma**, high school student at Westtown School
Automated Hate Speech Detection with Machine Learning and Large Language Models
Submitted as a paper for the S.-T. Yau High School Science Award

2024 **Pei-Hsuan Wu**, high school student at Emma Willard School
Exploring AI-Based Detection and Analysis of Ballroom Dance Movements
Submitted as a paper to the High School Projects track in NeurIPS 2024

Honors and Scholarships

2023 SIGIR Student Travel Grant
2021 SIGIR Student Travel Grant
2020 SIGIR Student Travel Grant
2019 Dean's Achievement Award for the best Master's Thesis, UNC Chapel Hill (2 out of 95)
2019 Outstanding Bachelor's Thesis, Nanjing Forestry University (top 3% campus-wide)