Kathleen Cachel

Email : kcachel@wpi.edu

EDUCATION

Worcester Polytechnic Institute
PhD student, GPA: 4.0   *Sept 2020 - Present*

Tufts University
B.S Computer Science   *Sept 2012 - May 2016*

RESEARCH EXPERIENCE

Research Assistant
Advisor: Elke Rudensteiner, Data Science Program, Worcester Polytechnic Institute   *Jan. 2021 - Present*

- Researcher in the Data Science Research Group focusing on algorithmic fairness applied to data-driven ranking decision-making sytems.
- Researcher in team developing interactive human-in-the-loop bias mitigation technologies for ranking based decision-making tasks.

SELECTED PUBLICATIONS

2022
Algorithmic Fairness.

- Hilson Shrestha, **Kathleen Cachel**, Mallak Alkhathlan, Elke Rundensteiner and Lane Harrison . FairFuse: Interactive Visual Support for Fair Consensus Rankings. *IEEE VIS 2022.*
- **Kathleen Cachel** and Elke Rundensteiner. FINS Auditing Framework: Group Fairness for Subset Selections. *AAAI/ACM Conference on AI, Ethics, and Society (AIES) 2022.*
- **Kathleen Cachel**, Elke Rundensteiner, Lane Harrison. MANI-RANK: Multi-attribute and Intersectional Fairness for Consensus Ranking. *IEEE International Conference on Data Engineering (ICDE) 2022.*

WORK AND TEACHING EXPERIENCE

Teaching Assistant
Computer Science Department, WPI   *Aug. 2020 - May. 2021*

- Teaching Assistant for graduate Introduction to Data Science, and Machine Learning classes.

Microsoft Corporation   Cambridge, MA
Product Manager II, M365 Office Collaboration Experience and Data   *Aug. 2016 - Aug. 2020*

- Responsible for a data, A/B experimentation, and customer research driven rollout and roadmap for the commenting and @mention features in Word, Excel, and PowerPoint. Built out data pipeline and reporting to track client and service health of @mention end to end user flow.
- Worked with corporate customers of M365 to elicit feedback on product roadmap and conduct user studies. Defined and created scalable telemetry system (data collection, cleaning, and reporting) to monitor customer satisfication and usage insights.

PROFESSION SERVICE

Student Volunteer
ACM Conference on Fairness, Accountability, and Transparency (ACM FAccT) 2022

Reviwer for Workshop on Human and Machine Decision @ NeurIPS
NeurIPS 2021

WiDS Ambassador
Organized WiDS (Women in Data Science) Central Massachusetts Conference 2021, 2022