

# JULIANA HIRT | RESUME

»» Data has a better idea. ««



- » **Status:** PhD Student, Researcher, Senior Analytics Engineer
- » **Fields:** Distributed Data Engineering, Cloud Infrastructure
- » **Stack:** Python, SQL, Spark, Distributed Computing, LaTeX
- » **Tools:** Git, Visual Studio Code, Databricks, Azure, AWS
- » **Activities:** Hockey, Table Top Games, Video Games, Swimming

## Senior Data Engineer (West Bend Mutual Insurance) 2024 - 2024

- » Designed and developed a cost-conscious ingestion process for centralized data stores
- » Mentored associates in distributed computing paradigms and CI/CD practices

## Senior Analytics Engineer (Northwestern Mutual) 2021 - 2024

- » Responsible for the design and development of data science pipelines for compliance monitoring
- » Facilitated data pipeline migration from on-premise hardware to the cloud

## Graduate Research Assistant (University of Wisconsin-Milwaukee) 2022 - Now

- » Assisted with survey instrument design and data collection
- » Responsible for model creation and data analysis

## Adjunct Professor (University of Wisconsin-Milwaukee) 2019 - 2022

- » Lead students through an experiential course in data management and information retrieval
- » Mentored new IT professionals through independent projects and internships

## Insight Engineering - Team Lead (Crisis Prevention Institute) 2020-2021

- » Developed an enterprise-wide data consumption and reporting platform
- » Upscaled marketing campaigns through the creation of consolidated customer profiles

Check out my LinkedIn - [linkedin.com/in/data-first-mke](https://www.linkedin.com/in/data-first-mke)

EXPERIENCE

## PhD Student - Information Science (University of Wisconsin - Milwaukee) 2022 - Now

- » Focused on the development of a data profiling algorithm for distributed compute environments
- » Assisting in research focused on the strategic description and organization of fiction books

## Master's - Information Science (University of Wisconsin - Milwaukee) 2016-2018

- » Masters Thesis: A novel application of NLP for library chat systems
- » Supported undergraduate students as a teaching assistant

## Bachelor's - Mathematics (University of Wisconsin - Milwaukee) 2008-2016

- » Bachelors Thesis: The application of numerical analysis to detect failure points in eSports matches
- » Focused on applications of mathematical modeling and game theory in Python

## Certifications (Independent) 2020-2021

- » Azure AI Fundamentals, Azure Fundamentals, Azure Data Fundamentals
- » MTA: Database Fundamentals, Marketo Engage Business Practitioner

EDUCATION

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## Journal Articles

- ▶ Lee, W.-C., Huang, L.-M.C., & Hirt, J. (2024). From amused to 😊: Enriching mood metadata by mapping textual descriptors to emojis for fiction reading. *Journal of Documentation*, 80(2), 552-571. <https://doi.org/10.1108/JD-08-2023-0146>
- ▶ Lee, W.-C., Huang, L.-M.C. & Hirt, J. (2024), Embracing emojis: prototyping mood enhanced information systems for fiction readers. *Journal of Documentation*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/JD-05-2024-0100>

## Posters

- ▶ Lee, W.-C., Hirt, J. & Cho, H. (2024), From Fandom to Fadeaway: Unpacking Factors Contributing to Anime Dropout. *Proceedings of the Association for Information Science and Technology*, 61: 989-991. <https://doi.org/10.1002/pra2.1163>
- ▶ Lee, W.-C., Hirt, J. & Adebayo, J. (2024), Unveiling Ethical Concerns in AI: Early Insights from a Systematic Review. *NMDSI AI Ethics Symposium: From Policy to Practice*.
- ▶ Lee, W.-C., Hirt, J. & Cho, H. (2025), AI-assisted Creativity: Shaping Reader Perspectives and Evolving Information Needs.

## Data Sets

- ▶ Lee, W.-C., Huang, L.-M., & Hirt, J. (2023). Emojis and emotion categories for fiction. [Data set]. [https://dc.uwm.edu/sois\\_facpubs/21](https://dc.uwm.edu/sois_facpubs/21)

PUBLICATIONS

## Contributions

- ▶ Ethical AI and Librarianship: A Resource Guide. Funded by American Library Association (ALA) Carnegie-Whitney Grant (2024) (August 1, 2024 – July 31, 2025)
- ▶ Ethical AI: Challenges and Opportunities. Funded by Northwestern Mutual Data Science Institute (NMDSI) Student Research Scholars Program Award (July – December, 2024)

GRANT-FUNDED  
RESEARCH

## Courses

- ▶ INFOST 410 - Database Information Retrieval Systems
- ▶ INFOST 310 - Human Factors in Information Seeking and Use

TEACHING