

# ESHTA BHARDWAJ

[Email](#) · [LinkedIn](#) · [Personal Website](#) · [Google Scholar](#)

Researcher and [PhD student](#) studying data practices in machine learning and environmental sustainability. Research interests include examining data curation practices in machine learning, concerns of fairness, accountability, and transparency in data work within predictive modelling, and climate data practices.

## EDUCATION

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<b>PhD</b>	University of Toronto, Information Supervisor: <a href="#">Christoph Becker</a>	Sep 2022 – Present
<b>MA</b>	York University, Information Systems and Technology Thesis: “Data Analytics in Climate Change Studies” Supervisor: <a href="#">Peter Khaiteer</a>	May 2022
<b>BA</b>	York University, Information Technology Specialized Honours	May 2020

## HONORS AND AWARDS

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CapaCITY/É Summer Institute	2024
WDS-ITO Student Travel Award for Research Data Alliance Plenary	2023
Digital Curation Institute (DCI) Fellowship	2022

## PEER REVIEWED PUBLICATIONS

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### *Conference Papers*

- Bhardwaj, E., Gujral, H., Wu, S., Zogheib, C., Maharaj, T., & Becker, C. The State of Data Curation at NeurIPS: An Assessment of Dataset Development Practices in the Datasets and Benchmarks Track. (2024). In Advances in Neural Information Processing Systems Datasets and Benchmarks Track (NeurIPS D&B).
- Bhardwaj, E., Qiao, H., & Becker, C. (2024). Limits at a Distance: Design Directions to Address Psychological Distance in Policy Decisions Affecting Planetary Boundaries. In Proceedings of the 2024 Workshop on Computing within Limits. LIMITS.
- Bhardwaj, E., Gujral, H., Wu, S., Zogheib, C., Maharaj, T., & Becker, C. (2024). Machine learning data practices through a data curation lens: An evaluation framework. In The 2024 ACM Conference on Fairness, Accountability, and Transparency (FAccT), 1055-1067.
- Bhardwaj, E.\*, Qiao, H.\*, & Becker, C. (2023). Pathways to urban sustainability: Design perspectives on a data curation and visualization platform. In Proceedings of the 2023 Workshop on Computing within Limits. LIMITS. (\*equal contribution)

### *Journal Papers*

- Bhardwaj, E., & Khaiteer, P. (2023). Is the climate getting WARMer? A framework and tool for climate data comparison. Environmental Modelling & Software, 171, Article 105879.
- Bhardwaj, E., & Khaiteer, P. (2022). What data analytics can or cannot do for climate change studies: An inventory of interactive visual tools. Ecological Informatics, Article 101918.

## WORKSHOPS

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- Bhardwaj, E. & Becker, C. Supporting Responsible Machine Learning by Improving Data Curation. 19th Women in Machine Learning Workshop at NeurIPS, 2024. [Abstract and poster presentation].

2. Bhardwaj, E. & Qiao, H. Pathways to urban sustainability: Design perspectives on a Toronto-based data curation and visualization platform. Beatrice and Arthur Minden Symposium on the Environment, 2024. [Poster presentation]
3. Bhardwaj, E. Data Practices in Decision-Making for Environmental Sustainability. Computer-Supported Cooperative Work (CSCW) workshop on Data-Enabled Sustainability, 2023. [Abstract submission]
4. Bhardwaj, E. Data Curation for Community Empowerment in Machine Learning Research. Computer-Supported Cooperative Work (CSCW) workshop on Community-Driven AI, 2023. [Abstract submission]
5. Bhardwaj, E. & Khaiteer, P. Visualization tools for climate data analytics. In 2022 International Congress on Environmental Modelling and Software and Science Based Decision Making. [Abstract submission]
6. Bhardwaj, E. & Khaiteer, P. Data Analytics Approach to Climate Change Studies. In 2021 International Congress on Modelling and Simulation. [Abstract submission and oral presentation]

### **SERVICE**

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Affiliate, Toronto Climate Observatory	2023 – Present
Member, FAIR for Machine Learning (FAIR4ML) IG	2023 – Present
Member, Just Sustainability Design Lab	2022 – Present
Reviewer, Women in Machine Learning Workshop (WiML) at NeurIPS	2024
Reviewer, International Conference on ICT for Sustainability	2023

### **TEACHING EXPERIENCE**

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#### **University of Toronto**

<b>Graduate Teaching Assistant</b> , Faculty of Information	Jan 2023 – Present
<ul style="list-style-type: none"> <li>▪ Information Systems, Service and Design</li> <li>▪ Introduction to Computational Thinking</li> <li>▪ System Requirements and Architectural Design</li> <li>▪ Project Management</li> <li>▪ User-Centered Information Systems Development</li> </ul>	

#### **York University**

<b>Teaching Assistant</b> , Information Technology	2020 – 2022
<ul style="list-style-type: none"> <li>▪ Introduction to Information Technologies</li> <li>▪ Information and Organizations</li> </ul>	

### **PROFESSIONAL TRAINING**

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Ontario Shores Centre for Mental Health Sciences, Data Analyst	2021 – 2022
Toronto Humane Society, Data Analyst	2020 – 2021

### **TECHNICAL SKILLS**

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- **Python 3:** NumPy, Pandas, Matplotlib, Plotly
- **Databases:** SQL (MS-SQL, MySQL, PL/SQL), MS Access
- **BI Software:** Power BI, Tableau
- **Web Technologies:** Basic HTML, CSS, and JavaScript (D3)
- **Advanced Excel:** Advanced functions, conditional formatting, pivot tables, and graph manipulation
- **Other:** SPSS Statistics, Matlab, R Studio