

# Angjelin Hila, Ph.D. Student

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🌐 LinkedIn Profile

🌐 <https://angjelinhila.github.io>



## Education

- Expected 2029    📖 **Ph.D. in Information Science**, University of Texas at Austin.  
Advisor: Dr. Elliott Hauser
- 2017    📖 **M.I. in Information Science**, University of Toronto
- 2015    📖 **B.A. in Philosophy**, University of Toronto

## Professional Experience

- Aug 2022 – July 2024    📖 **Services Specialist**, Toronto Public Library — Innovation Department, Toronto, Canada. Designed and delivered data-science workshops; managed the Creation Loft makerspace; organized AI/ethics/quantum talks; launched innovator-in-residence programming and 1:1 consultations.
- Dec 2017 – 2022    📖 **Reference Librarian**, Toronto Reference Library, Toronto, Canada. Led digital design and AI outreach; ran CAD/3D printing, data-viz, and open-source workshops; built usage databases; delivered market-research, Excel, HTML/CSS, and privacy trainings.

## Research Interests

- 📖 Sociotechnical systems.
- 📖 Human–AI interaction & Collaboration (HAX).
- 📖 Data Science & Computational Social Science.
- 📖 Collective Action and Intelligence.

## Research Experience

- 2025–Present    📖 **Graduate Research Assistant**, PI: Dr. Elliott Hauser. Co-authored work on human–LLM deductive qualitative coding; developing pipelines for human–LLM collaboration for coding large-scale qualitative data.

## Teaching Experience

- Fall 2026    📖 **Teaching Assistant**, (INF385T) Datafication & Its Consequences / (INF284M) Metadata Theories and Applications. Supported course delivery through discussion facilitation, assignment and rubric development, and grading with feedback focused on critical analysis of datafication, infrastructure, and ethics; Provided student support on research projects and applied metadata work, helping students connect theory to practice across standards, formats, interoperability, and real-world information systems.
- Fall 2025    📖 **Graduate Mentor**, iSchool Research Institute for StoryArc Exploration. Mentored an undergraduate team through the research and publication process; led weekly discussion and bi-weekly workshop series on quantitative, qualitative, and computational methods.
- 2018–2023    📖 **Information Professional**, Toronto Public Library. Led workshops on data science and Python; designed AI, machine learning, and data visualization workshops.

## Research Publications

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### Journal Articles

- 1 **A. Hila**, "The epistemological consequences of llms: Rethinking collective intelligence and information institutions," *AI & Society*, 2025.
- 2 **A. Hila**, "Analog photography in a digital world: Phenomenology and contemporary status of the slr camera," *The iJournal: Graduate Student Journal of the Faculty of Information*, 2016.

### Conference Proceedings

- 1 **A. Hila** and E. Hauser, "Measuring textual sense of agency in ai reddit communities: A large-scale text analysis," in *HCI International 2026 Proceedings*, Accepted and Peer-Reviewed, 2026.
- 2 **A. Hila**, "An enactivist approach to hci: Bridging the gap between agent autonomy and affordances," in *HCI International 2025 Proceedings*, So41: Data-Driven Design for Trust, Transparency, and Collaboration, 2025.
- 3 **A. Hila** and E. Hauser, "Assessing the reliability of large language models for deductive qualitative coding: A comparative intervention study with chatgpt," in *ASIS&T Annual Meeting Proceedings*, Accepted, 2025.

### Conference Presentations

- 1 **A. Hila**, *The epistemological consequences of llms: Rethinking collective intelligence and information institutions*, Talk, ASIS&T SIG-AI Symposium, Washington, DC (accepted), Nov. 2025.
- 2 **A. Hila**, *Dazzling data visualizations: Interactive community maps with tableau public*, Presentation, Digital Odyssey Conference Annual Meeting, Toronto, ON, 2023.
- 3 **A. Hila**, *Institutional values and information environments*, Presentation, iSchool Student Conference: Canada Now, Annual Meeting, Toronto, ON, 2016.

### Other Publications

- 1 **A. Hila**, *The theory of universal computation, bayesian optimality, solomonoff induction & aixi*, Towards Data Science (Article), Published 22 Sep 2025, Sep. 2025.
- 2 **A. Hila**, *An introduction to reinforcement learning*, Towards Data Science (Article), 2024.
- 3 **A. Hila**, *Three mind-blowing ideas in physics: The stationary action principle, lorentz transformations and the metric tensor*, Towards Data Science (Article), 2024.
- 4 **A. Hila**, *Quantum computing for complete beginners*, Towards Data Science (Article), 2023.
- 5 **A. Hila**, *Cooperative and competitive games: The limits of game theory and evolutionary biology in modeling social systems*, Medium (Article), 2021.

### Works Under Preparation and Preparation

- 1 **A. Hila**, "Introducing TagSynapse: A GNN-mediated collaborative tagging interface bridging folksonomies and formal ontologies," In Preparation, 2026.
- 2 **A. Hila** and E. Hauser, "Assessing and measuring llm effective actions," In preparation; 2026.
- 3 **A. Hila**, "An ecological approach to human-ai hybrid intelligence: From individual strategies to collective equilibria," In Preparation, 2026.

- 4 A. Hila, E. Hauser, and N. TeBlunthuis, "Modeling discourse diffusion in ai-themed reddit communities through structural-semantic networks," In Preparation, 2026.
- 5 A. Hila and E. Hauser, "Perceptions of human agency in artificial intelligence subreddits before and after chatgpt: An exploration of human-ai hybrid intelligence," Under Review, 2025.

## Projects

UX	<ul style="list-style-type: none"> <li> <span style="color: #0056b3;">■</span> <b>TagSynapse.</b> An information resource tagging system that integrates folksonomies with controlled vocabularies with ontologies, word embeddings, and graph-neural networks to facilitate tag creation, semantic and logical integration, retrieval and suggestions.         </li> </ul>
Data Science	<ul style="list-style-type: none"> <li> <span style="color: #0056b3;">■</span> <b>AI Reddit Communities Vector Database.</b> A web-app with Streamlit interface that enables semantic and RAG retrieval of user posts and comments for qualitative data coding. Standards/tools: metadata standards, digitization workflows, repository platform.         </li> </ul>
Social Network Modeling	<ul style="list-style-type: none"> <li> <span style="color: #0056b3;">■</span> <b>Reddit AI Communities.</b> A project that operationalizes the longitudinal diffusion and change of discourse and beliefs on Reddit AI-themed communities through structural-semantic graphs: (a) structure is modeled on user-interactions and (b) semantic diffusion through vectorization of time snapshots and comments and submissions Tools: Python, Transformers, TorchGeometric, pandas, scikit-learn.         </li> </ul>
Databases & Collections	<ul style="list-style-type: none"> <li> <span style="color: #0056b3;">■</span> <b>Text Psychometrics of Sense of Agency.</b> Designed and implemented a database; what it stores and how it's used. Stack: PostgreSQL, schema design, ETL.         </li> </ul>
Data Viz	<ul style="list-style-type: none"> <li> <span style="color: #0056b3;">■</span> <b>Philosophy of Mind.</b> Interactive visualization/dashboard; what question it answers. Tools: Tableau, D3.js, Python.         </li> </ul>

## Awards & Fellowships

2024 – 2025	<ul style="list-style-type: none"> <li> <span style="color: #0056b3;">■</span> PhD Fellowship, University of Texas at Austin.         </li> </ul>
2015 – 2017	<ul style="list-style-type: none"> <li> <span style="color: #0056b3;">■</span> Master's Research Grant, Faculty of Information, University of Toronto — \$5,000.         </li> </ul>
2008	<ul style="list-style-type: none"> <li> <span style="color: #0056b3;">■</span> Queen Elizabeth II Scholarship — \$4,000.         </li> <li> <span style="color: #0056b3;">■</span> Clifton Graham Roberts Admission Award — \$2,000.         </li> </ul>

## Service

2025	<ul style="list-style-type: none"> <li> <span style="color: #0056b3;">■</span> Reviewer, ACM CHI.         </li> </ul>
2026	<ul style="list-style-type: none"> <li> <span style="color: #0056b3;">■</span> Reviewer, ASIS&amp;T.; Reviewer, Minds &amp; Machines.         </li> </ul>

## Professional Development & Certificates

Aug 2024	<ul style="list-style-type: none"> <li> <span style="color: #0056b3;">■</span> CIND 110 — Data Organization for Data Analysts, TMU Chang School.         </li> </ul>
Apr 2024	<ul style="list-style-type: none"> <li> <span style="color: #0056b3;">■</span> CIND 123 — Data Analytics: Statistics &amp; R, TMU Chang School.         </li> </ul>
2023	<ul style="list-style-type: none"> <li> <span style="color: #0056b3;">■</span> Analyzing Data with Python, IBM.         </li> </ul>
2022	<ul style="list-style-type: none"> <li> <span style="color: #0056b3;">■</span> Python Basics for Data Science, IBM.         </li> <li> <span style="color: #0056b3;">■</span> Essential Excel Statistical Training, LinkedIn Learning.         </li> </ul>
2021	<ul style="list-style-type: none"> <li> <span style="color: #0056b3;">■</span> D3.js Essential Training for Data Scientists, LinkedIn Learning.         </li> </ul>
2020	<ul style="list-style-type: none"> <li> <span style="color: #0056b3;">■</span> JavaScript Introduction, W3Cx.         </li> </ul>

## Professional Development & Certificates (continued)

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2019  Introduction to Database Development, Cengage.

## References

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Available on Request

## Skills

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Coding	Python, R, JavaScript, SQL (PostgreSQL/MySQL/SQLite), Cypher (Neo4j), HTML/CSS.
Libraries	TensorFlow, PyTorch, NLTK, SpaCy, iGraph, Gensim, Transformers, NetworkX, Plotly, D3.js.
Tools	Gephi, Tableau, MySQL, MongoDB, VS Code, RStudio, RapidMiner Studio, Github, Stata.
Methods	Statistical hypothesis testing; qualitative coding; network analysis; regression and classification; machine learning.