REBECCA M. M. HICKE

PHD CANDIDATE, COMPUTER SCIENCE, CORNELL UNIVERSITY

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EDUCATION

Cornell University, Ph.D. Candidate, Computer Science

Fall 2022 – present

Minor: Information Science

Ithaca, NY

GPA: 4.00

Committee: David Mimno (chair), Lillian Lee, Jon Kleinberg, Ross Kristensen-McLachlan

Carleton College, B.A. cum laude, Computer Science and English

June 2022

Minor: Digital Arts and Humanities

Northfield, MN

GPA: 3.86

Advisors: Eric Alexander and George Shuffelton

Received distinction in both majors

RESEARCH AND INDUSTRY EXPERIENCE

Graduate Research Assistant, Cornell University

August 2022 – present

Advisor: David Mimno

Ithaca, NY

Areas: Digital humanities, natural language processing, machine learning

Research Intern, AIIL Group, Microsoft Research

May 2025 – August 2025

Advisor: Kiran Tomlinson

Redmond, Washington

Areas: Natural language processing, machine learning, user modeling

Graduate Research Assistant, Aarhus University

May 2024 – August 2024

Advisor: Ross Deans Kristensen-McLachlan

Aarhus, Denmark

Areas: Digital humanities, natural language processing, machine learning

PiTech Research Fellow, Cornell University

June 2023 – August 2023

Host Organization: Good Call NYC

Remote

Areas: Data visualization, data processing and analysis

Research Scientist, Authors AI

May 2023 – August 2023

Areas: Natural language processing

Remote

Undergraduate Research Assistant, Carleton College

June 2020 – May 2022

Advisor: Eric Alexander

Northfield, MN

Areas: Digital humanities, data visualization, human-computer interaction

Undergraduate Research Assistant, UC Berkeley

June 2021 – March 2022

REU – Summer Undergraduate Program in Engineering Research at Berkeley

Remote

Advisors: Sarah Chasins and Aditya Parameswaran

PUBLICATIONS

- Hamilton, Sil, **Rebecca M. M. Hicke**, David Mimno, and Matthew Wilkens. 2025. "Too Long, Didn't Model: Decomposing LLM Long-Context Understanding with Novels." *Preprint*.
- **Hicke, Rebecca M. M.**, Sil Hamilton, and David Mimno. 2025. "The Zero Body Problem: Probing LLM Use of Sensory Language." *Proceedings of the 2nd Conference on Language Modeling*.
- Hamilton, Sil, **Rebecca M. M. Hicke**, and David Mimno. 2025. "A City of Millions: Mapping Literary Social Networks at Scale." *Proceedings of the 5th International Conference on Natural Language Processing for Digital Humanities*.
- **Hicke, Rebecca M. M.** and David Mimno. 2025. "Looking for the Inner Music: Probing LLMs' Understanding of Literary Style." Expanding the Toolkit: Large Language Models in Humanities Research Computational Humanities Research.
- **Hicke, Rebecca M. M.**, Yuri Bizzoni, Pascale Feldkamp, and Ross Deans Kristensen-McLachlan. 2025. "Says Who? Effective Zero-Shot Annotation of Focalization." *Preprint*.
- **Hicke, Rebecca M. M.** and Ross Deans Kristensen-McLachlan. 2024. "SCIENCE IS EXPLORATION: Computational Frontiers for Conceptual Metaphor Theory." *Proceedings of the 5th Computational Humanities Research Conference. Finalist Best Short Paper Award*
- Kristensen-McLachlan, Ross Deans, **Rebecca M. M. Hicke**, Márton Kardos, and Mette Thunø. 2024. "Context is Key(NMF): Modelling Topical Information Dynamics in Chinese Diaspora Media." *Proceedings of the 5th Computational Humanities Research Conference*.
- **Hicke, Rebecca M. M.** and David Mimno. 2024. "[Lions: 1] and [Tigers: 2] and [Bears: 3], Oh My! Literary Coreference Annotation with LLMs." *Proceedings of the 8th Joint SIGHUM Workshop on Computational Linguistics for Cultural Heritage, Social Sciences, Humanities and Literature.*
- **Hicke, Rebecca M. M.** and David Mimno. 2023. "T5 meets Tybalt: author attribution in Early Modern English drama using large language models." *Proceedings of the 4th Computational Humanities Research Conference*.
- **Hicke, Rebecca M. M.** and David Mimno. 2024. "Let every word weight heavy of her worth': Examining How Women Enact Power in Shakespeare's Comedies through Interactive Speech Pattern Visualizations." In *Computational Drama Analysis: Reflecting Methods and Interpretations*. De Gruyter.
- **Hicke, Rebecca M. M.**, Maanya Goenka, and Eric Alexander. 2022. "Word Clouds in the Wild." 2022 *IEEE* 7th workshop on Visualization for the Digital Humanities (Vis4DH).

TEACHING

Received award for TAing contributions Program Assistant, Carleton College June 2022 – August 2022 History of Computing Off-Campus Studies Program **Undergraduate Teaching Assistant**, Carleton College March 2020 – June 2022 CS 111: Introduction to Computer Science (1 term) CS 201: Data Structures (4 terms) CS 202: Math of Computer Science (2 terms) West Coast Swing Teacher, Carleton College January 2020 – March 2020 Competitive Ballroom and Latin Dance Team, Carleton College June 2019 – June 2022 Treasurer, June 2019 – June 2020 Captain, June 2020 – June 2022 Residential and Program Assistant, UT Austin June 2018 – July 2020 First Bytes Computer Science Camp (2 sessions) Code Longhorn Computer Science Camp (1 session) Robotics Camp (2 sessions) Cybersecurity Camp (1 session) SERVICE **Graduate Mentor**, Cornell University 2024 – present **ACSU Research Night Graduate Co-Organizer**, Cornell University 2023 - present**Student-Applicant Support Program Mentor**, Cornell University Fall 2022, 2023, 2024 **Session Chair** Fourth Conference on Computational Humanities Research (CHR) December 2023 Reviewer DH 2024 January 2024 LaTeCH-CLfL 2024 January 2024 **Associate Reviewer** Open Research Europe September 2023 CHR 2023 September 2023 Journal of Computational Literary Studies April 2023 **New Visions in Engineering**, Cornell University Mentor September 2022 – June 2023 Coordinator September 2023 – June 2024

CS/INFO 3300: Data-Driven Web Applications (1 term)

CS/INFO 4300: Language and Information (1 term)

CS 2110: Object-Oriented Programming and Data Structures (1 term)

	Summer 2023
Accepted Graduate Student Visiting Days Volunteer, Cornell University	May 2023
AWARDS & FELLOWSHIPS	
Hopcroft Fellowship, Cornell University	2022 – 2023
Laurence McKinley Gould Prize in Natural Science, Carleton College	May 2022
David John Field Prize, Carleton College	May 2022
The David Pollatsek '96 Prize in Computer Science, Carleton College	May 2022
Distinction - Computer Science Senior Thesis, Carleton College	May 2022
Distinction - English Senior Thesis, Carleton College	April 2022
Thorsen Scholarship, Carleton College	2020 - 2022
Larson International Fellowship, Carleton College	2021
Presentations	
SCIENCE IS EXPLORATION: Computational Frontiers for Conceptual Metaphor Theory, CHR 2024	December 2024
[Lions: 1] and [Tigers: 2] and [Bears: 3], Oh My! Literary Coreference Annotation LaTeCH-CLfL 2024 Poster Presentation	
LaTeCH-CLfL 2024	March 2024
LaTeCH-CLfL 2024 Poster Presentation T5 meets Tybalt: author attribution in Early Modern English drama using	March 2024 December 2023
LaTeCH-CLfL 2024 Poster Presentation T5 meets Tybalt: author attribution in Early Modern English drama using large language models, CHR 2023 T5 meets Tybalt: author attribution in Early Modern English drama using large language models, TADA 2023	March 2024 December 2023
LaTeCH-CLfL 2024 Poster Presentation T5 meets Tybalt: author attribution in Early Modern English drama using large language models, CHR 2023 T5 meets Tybalt: author attribution in Early Modern English drama using large language models, TADA 2023 Poster Presentation Large Language Models and NER: Better Results with Less Work, DH 2023	March 2024 December 2023 November 2023
LaTeCH-CLfL 2024 Poster Presentation T5 meets Tybalt: author attribution in Early Modern English drama using large language models, CHR 2023 T5 meets Tybalt: author attribution in Early Modern English drama using large language models, TADA 2023 Poster Presentation Large Language Models and NER: Better Results with Less Work, DH 2023 Poster Presentation	March 2024 December 2023 November 2023 July 2023 October 2022
LaTeCH-CLfL 2024 Poster Presentation T5 meets Tybalt: author attribution in Early Modern English drama using large language models, CHR 2023 T5 meets Tybalt: author attribution in Early Modern English drama using large language models, TADA 2023 Poster Presentation Large Language Models and NER: Better Results with Less Work, DH 2023 Poster Presentation Word Clouds in the Wild, Vis4DH – IEEE Vis Examining How Women Enact Power in Shakespeare's Comedies through Interactive Speech Pattern Visualizations,	March 2024 December 2023 November 2023 July 2023

Technical Talk – "Let every word weigh heavy of her worth", Carleton College English Undergraduate Senior Thesis Technical Talk	March 2022
Tools for Tracking Police Misconduct Data, Carleton College Summer Research Presentation	October 2021
Technical Talk – Tools for Tracking Police Misconduct Data, UC Berkeley SUPERB REU Technical Talk	August 2021
Virtual Poster Session - Word Clouds in the Wild, Carleton College	October 2020
Word Clouds in the Wild, Carleton College Summer Research Presentation	August 2020