

# REBECCA M. M. HICKE

PHD CANDIDATE, COMPUTER SCIENCE, CORNELL UNIVERSITY

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## EDUCATION

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<b>Cornell University</b> , Ph.D. Candidate, Computer Science	Fall 2022 – present
Minor: Information Science	<i>Ithaca, NY</i>
GPA: 4.00	
Committee: David Mimno (chair), Lillian Lee, Jon Kleinberg, Ross Kristensen-McLachlan	
<b>Cornell University</b> , M.S., Computer Science	Fall 2022 – Fall 2024
Minor: Information Science	<i>Ithaca, NY</i>
Committee: David Mimno (chair), Lillian Lee, Jon Kleinberg	
<b>Carleton College</b> , B.A. <i>cum laude</i> , Computer Science and English	June 2022
Minor: Digital Arts and Humanities	<i>Northfield, MN</i>
GPA: 3.86	
Advisors: Eric Alexander and George Shuffelton	
<i>Received distinction in both majors</i>	

## RESEARCH AND INDUSTRY EXPERIENCE

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<b>Graduate Research Assistant</b> , Cornell University	August 2022 – present
Advisor: David Mimno	<i>Ithaca, NY</i>
<i>Areas:</i> Digital humanities, natural language processing, machine learning	
<b>Research Intern</b> , AIIL Group, Microsoft Research	May 2025 – August 2025
Advisor: Kiran Tomlinson	<i>Redmond, WA</i>
<i>Areas:</i> Natural language processing, machine learning, user modeling	
<b>Graduate Research Assistant</b> , Aarhus University	May 2024 – August 2024
Advisor: Ross Deans Kristensen-McLachlan	<i>Aarhus, Denmark</i>
<i>Areas:</i> Digital humanities, natural language processing, machine learning	
<b>PiTech Research Fellow</b> , Cornell University	June 2023 – August 2023
Host Organization: Good Call NYC	<i>Remote</i>
<i>Areas:</i> Data visualization, data processing and analysis	
<b>Research Scientist</b> , Authors AI	May 2023 – August 2023
<i>Areas:</i> Natural language processing	<i>Remote</i>
<b>Undergraduate Research Assistant</b> , Carleton College	June 2020 – May 2022
Advisor: Eric Alexander	<i>Northfield, MN</i>
<i>Areas:</i> Digital humanities, data visualization, human-computer interaction	

## PUBLICATIONS

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- 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.**, Brian Haggard, Mia Ferrante, Rayhan Khanna, and David Mimno. 2025. “Are You There God? Lightweight Narrative Annotation of Christian Fiction with LMs.” *Preprint*.
- Hicke, Rebecca M. M.**, Sil Hamilton, and David Mimno. 2025. “The Zero Body Problem: Probing LLM Use of Sensory Language.” *Proceedings of the 2<sup>nd</sup> 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 5<sup>th</sup> 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 5<sup>th</sup> 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 5<sup>th</sup> 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 8<sup>th</sup> 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 4<sup>th</sup> 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 7<sup>th</sup> workshop on Visualization for the Digital Humanities (Vis4DH)*.

## TEACHING

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<b>Graduate Teaching Assistant</b> , Cornell University	August 2023 – present
CS/INFO 3300: Data-Driven Web Applications (1 term)	
CS 2110: Object-Oriented Programming and Data Structures (1 term)	
CS/INFO 4300: Language and Information (1 term)	
<i>Received award for TAing contributions</i>	
<b>Program Assistant</b> , Carleton College	June 2022 – August 2022
History of Computing Off-Campus Studies Program	
<b>Undergraduate Teaching Assistant</b> , 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)	
<b>West Coast Swing Teacher</b> , Carleton College	January 2020 – March 2020
<b>Competitive Ballroom and Latin Dance Team</b> , Carleton College	June 2019 – June 2022
Treasurer, June 2019 – June 2020	
Captain, June 2020 – June 2022	
<b>Residential and Program Assistant</b> , 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

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<b>Graduate Mentor</b> , Cornell University	2024 – present
<b>ACSU Research Night Graduate Co-Organizer</b> , Cornell University	2023 – present
<b>Student-Applicant Support Program Mentor</b> , Cornell University	Fall 2022, 2023, 2024
<b>Session Chair</b>	
Fourth Conference on Computational Humanities Research (CHR)	December 2023
<b>Reviewer</b>	
DH 2024	January 2024
LaTeCH-CLfL 2024	January 2024
<b>Associate Reviewer</b>	
Open Research Europe	September 2023
CHR 2023	September 2023

**New Visions in Engineering**, Cornell University

Mentor

September 2022 – June 2023

Coordinator

September 2023 – June 2024

**Bowers Undergraduate Research Experience (BURE) Mentor**, Cornell University Summer 2023**Accepted Graduate Student Visiting Days Volunteer**, Cornell University May 2023**AWARDS & FELLOWSHIPS**

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**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**

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**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 with LLMs**,  
LaTeCH-CLfL 2024 March 2024  
Poster Presentation**T5 meets Tybalt: author attribution in Early Modern English drama using large language models**, CHR 2023 December 2023**T5 meets Tybalt: author attribution in Early Modern English drama using large language models**, TADA 2023 November 2023  
Poster Presentation**Large Language Models and NER: *Better Results with Less Work***, DH 2023 July 2023  
Poster Presentation**Word Clouds in the Wild**, Vis4DH – IEEE Vis October 2022**Examining How Women Enact Power in Shakespeare's Comedies through Interactive Speech Pattern Visualizations**, September 2022

Workshop on Computational Drama Analysis

<b>Practicum 2.0: An Interactive Tool for Introductory CS Topics</b> , Carleton College Computer Science Undergraduate Senior Thesis Talk	May 2022
<b>“Let every word weight heavy of her worth”</b> , Carleton College English Undergraduate Senior Thesis Talk	May 2022
<b>Technical Talk – “Let every word weigh heavy of her worth”</b> , Carleton College English Undergraduate Senior Thesis Technical Talk	March 2022
<b>Tools for Tracking Police Misconduct Data</b> , Carleton College Summer Research Presentation	October 2021
<b>Technical Talk – Tools for Tracking Police Misconduct Data</b> , UC Berkeley SUPERB REU Technical Talk	August 2021
<b>Virtual Poster Session – Word Clouds in the Wild</b> , Carleton College	October 2020
<b>Word Clouds in the Wild</b> , Carleton College Summer Research Presentation	August 2020