

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	<i>Ithaca, NY</i>
GPA: 4.00	
Committee: David Mimno (chair), Lillian Lee, Jon Kleinberg, Ross Kristensen-McLachlan	
Cornell University , M.S., Computer Science	October 2024
Minor: Information Science	<i>Ithaca, NY</i>
Committee: David Mimno (chair), Lillian Lee, Jon Kleinberg	
Carleton College , 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

Graduate Research Assistant , Cornell University	August 2022 – present
Advisor: David Mimno	<i>Ithaca, NY</i>
<i>Areas:</i> Digital humanities, natural language processing, machine learning	
Research Intern , 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	
Graduate Research Assistant , 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	
PiTech Research Fellow , Cornell University	June 2023 – August 2023
Host Organization: Good Call NYC	<i>Remote</i>
<i>Areas:</i> Data visualization, data processing and analysis	
Research Scientist , Authors AI	May 2023 – August 2023
<i>Areas:</i> Natural language processing	<i>Remote</i>
Undergraduate Research Assistant , Carleton College	June 2020 – May 2022
Advisor: Eric Alexander	<i>Northfield, MN</i>
<i>Areas:</i> 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	<i>Remote</i>
Advisors: Sarah Chasins and Aditya Parameswaran	
Areas: Human-computer interaction	

TEACHING EXPERIENCE

Graduate Teaching Assistant , 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>	
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)	
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)	

PUBLICATIONS

- 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.” *Proceedings of the 6th Computational Humanities Research Conference*.
- Hicke, Rebecca M. M.**, Yuri Bizzoni, Pascale Feldkamp, and Ross Deans Kristensen-McLachlan. 2025. “Says Who? Effective Zero-Shot Annotation of Focalization.” *Proceedings of the 6th Computational Humanities Research Conference*.
- 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. 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*).

SERVICE

Workshop Organizer: Natural Language Processing for the Digital Humanities [NLP4DH] (2025)

Session Chair: Computational Humanities Research [CHR] (2023)

Reviewer: CHR Journal (2025), Workshop on Computational Linguistics for Cultural Heritage, Social Sciences, Humanities and Literature [LaTeCH-CLfL] (2024, 2025), Digital Humanities [DH] (2024), CHR (2023), Open Research Europe (2023), Journal of Computational Literary Studies (2023)

Graduate Mentor + Organizer:

ACSU Research Night (2023, 2024, 2025)

Organized graduate presenters for outreach events getting students interested in research
Student-Applicant Support Program (2022, 2023, 2024)

Provided advice + feedback on application materials for applicants to Cornell CS PhDs
New Visions in Engineering (2022-2023, Coordinator: 2023-2024)

Mentored high school students interested in futures in engineering + CS research

Bowers Undergraduate Research Experience (BURE) (2023)
Mentored and organized social events for undergraduate research assistants

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

The Zero Body Problem: Probing LLM Use of Sensory Language , COLM 2025 Poster Presentation	October 2025
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 Poster Presentation	March 2024
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 Poster Presentation	November 2023
Large Language Models and NER: Better Results with Less Work , DH 2023 Poster Presentation	July 2023
Word Clouds in the Wild , Vis4DH – IEEE Vis	October 2022
Examining How Women Enact Power in Shakespeare's Comedies through Interactive Speech Pattern Visualizations , Workshop on Computational Drama Analysis	September 2022
Practicum 2.0: An Interactive Tool for Introductory CS Topics , Carleton College Computer Science Undergraduate Senior Thesis Talk	May 2022

“Let every word weight heavy of her worth”, Carleton College English Undergraduate Senior Thesis Talk	May 2022
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