

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	
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	
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	
<i>Areas:</i> Human-computer interaction	

PUBLICATIONS

- Hicke, Rebecca M. M.** and David Mimno. 2025. “Looking for the Inner Music: Probing LLMs’ Understanding of Literary Style.” *Preprint*.
- Hicke, Rebecca M. M.**, Yuri Bizzoni, Pascale Feldkamp, and Ross Deans Kristensen-McLachlan. 2024. “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

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|---|---------------------------|
| Graduate Teaching Assistant , Cornell University | August 2023 – present |
| INFO 3300: Data-Driven Web Applications (1 term) | |
| CS 2110: Object-Oriented Programming and Data Structures (1 term) | |
| 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
Bowers Undergraduate Research Experience (BURE) Mentor , Cornell University	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
<i>Distinction</i> – Computer Science Senior Thesis , Carleton College	May 2022
<i>Distinction</i> – 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 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: <i>Better Results with Less Work</i> , 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