

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: 3.96	
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.**, 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
INFO 3300: Data-Driven Web Applications (1 term)
CS 2110: Object-Oriented Programming and Data Structures (1 term) | August 2023 – present |
| Program Assistant , Carleton College
History of Computing Off-Campus Studies Program | June 2022 – August 2022 |
| Undergraduate Teaching Assistant , Carleton College
CS 111: Introduction to Computer Science (1 term)
CS 201: Data Structures (4 terms)
CS 202: Math of Computer Science (2 terms) | March 2020 – June 2022 |
| West Coast Swing Teacher , Carleton College | January 2020 – March 2020 |
| Competitive Ballroom and Latin Dance Team , Carleton College
Treasurer, June 2019 – June 2020 | June 2019 – June 2022 |

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

LaTeX-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

Distinction – Computer Science Senior Thesis, Carleton College

May 2022

Distinction – English Senior Thesis, Carleton College

April 2022

Thorsen Scholarship, Carleton College

2020 – 2022

PRESENTATIONS

[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