

# REBECCA M. M. HICKE

PHD STUDENT, COMPUTER SCIENCE, CORNELL UNIVERSITY

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**Website:** <https://rmatouschekkh.github.io>

## EDUCATION

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<b>Cornell University</b> , Ph.D. Student, Computer Science	Fall 2022 – present
Minor: Information Science	<i>Ithaca, NY</i>
GPA: 3.96	
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>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	
<b>Undergraduate Research Assistant</b> , 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

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- 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 5<sup>th</sup> Computational Humanities Research Conference*.
- Ross Deans Kristensen-McLachlan, **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     |
| INFO 3300: Data-Driven Web Applications (1 term)                    |                           |
| CS 2110: Object-Oriented Programming and Data Structures (1 term)   |                           |
| <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                                      |                           |

**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**

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**ACSU Research Night Graduate Co-Organizer**, Cornell University

2023 – present

**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

**Student-Applicant Support Program Mentor**, Cornell University

Fall 2022, 2023

**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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<b>[Lions: 1] and [Tigers: 2] and [Bears: 3], Oh My! Literary Coreference Annotation with LLMs,</b> LaTeCH-CLfL 2024 Poster Presentation	March 2024
<b>T5 meets Tybalt: author attribution in Early Modern English drama using large language models,</b> CHR 2023	December 2023
<b>T5 meets Tybalt: author attribution in Early Modern English drama using large language models,</b> TADA 2023 Poster Presentation	November 2023
<b>Large Language Models and NER: <i>Better Results with Less Work</i>,</b> DH 2023 Poster Presentation	July 2023
<b>Word Clouds in the Wild,</b> Vis4DH – IEEE Vis	October 2022
<b>Examining How Women Enact Power in Shakespeare’s Comedies through Interactive Speech Pattern Visualizations,</b> Workshop on Computational Drama Analysis	September 2022
<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