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   *Ithaca, NY*
    GPA: 4.00
    Committee: David Mimno (chair), Lillian Lee, Jon Kleinberg, Ross Kristensen-McLachlan

Carleton College, B.A. *cum laude*, Computer Science and English   June 2022
    Minor: Digital Arts and Humanities   *Northfield, MN*
    GPA: 3.86
    Advisors: Eric Alexander and George Shuffelton
    Received distinction in both majors

RESEARCH AND INDUSTRY EXPERIENCE

Graduate Research Assistant, Cornell University   August 2022 – present
    Advisor: David Mimno   *Ithaca, NY*
    Areas: Digital humanities, natural language processing, machine learning

Graduate Research Assistant, Aarhus University   May 2024 – August 2024
    Advisor: Ross Deans Kristensen-McLachlan   *Aarhus, Denmark*
    Areas: Digital humanities, natural language processing, machine learning

PiTech Research Fellow, Cornell University   June 2023 – August 2023
    Host Organization: Good Call NYC   *Remote*
    Areas: Data visualization, data processing and analysis

Research Scientist, Authors AI   May 2023 – August 2023
    Areas: Natural language processing   *Remote*

Undergraduate Research Assistant, Carleton College   June 2020 – May 2022
    Advisor: Eric Alexander   *Northfield, MN*
    Areas: 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   *Remote*
    Advisors: Sarah Chasins and Aditya Parameswaran
    Areas: 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

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

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

SCIENCE IS EXPLORATION: Computational Frontiers for Conceptual   December 2024
    Metaphor Theory, CHR 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   December 2023
    large language models, CHR 2023

T5 meets Tybalt: author attribution in Early Modern English drama using   November 2023
    large language models, TADA 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   September 2022
    Interactive Speech Pattern Visualizations,
    Workshop on Computational Drama Analysis

Practicum 2.0: An Interactive Tool for Introductory CS Topics, Carleton College   May 2022
    Computer Science Undergraduate Senior Thesis Talk

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

Technical Talk – "Let every word weigh heavy of her worth", Carleton College   March 2022
    English Undergraduate Senior Thesis Technical Talk

Tools for Tracking Police Misconduct Data, Carleton College   October 2021
    Summer Research Presentation

Technical Talk – Tools for Tracking Police Misconduct Data, UC Berkeley   August 2021
    SUPERB REU Technical Talk

Virtual Poster Session – **Word Clouds in the Wild**, Carleton College   October 2020

Word Clouds in the Wild, Carleton College   August 2020
    Summer Research Presentation