# Katie Warburton

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### Education \_\_\_\_\_

#### Ph.D. in Cognitive Science

University of Melbourne; University of Toronto

- Supervisors: Charles Kemp, Yang Xu, Lea Frermann
- Jointly awarded degree from the UofT-UoM International Research Training Group

#### B.Comp (Hons) with a Specialization in Cognitive Science

#### Queen's University

- GPA: 4.2/4.3
- Received the medal in computing which is awarded to the student who has achieved the highest standing in a plan offered by the awarding department.

## Research Experience

#### **UofT-UoM International Research Training Group**

#### **Doctoral Candidate**

- Thesis: The Structure and Evolution of Hierarchical Category Systems
- Supervisors: Charles Kemp, Yang Xu, Lea Frermann
- Previously developed computational methods for quantifying structural biases in hierachical category systems
- Currently combining computational and experimental methods to explore order effects in hierachical category systems

#### **Queen's School of Computing**

Undergraduate Thesis

- Title: Using Correlations of Word Frequency to Find Clusters in Unstructured Radiology Reports
- Supervisor: Randy Ellis
- Researched and implemented methods for the natural language processing of lung cancer radiology reports
- Applied topic modeling and clustering algorithms to aid in report processing
- Received an NSERC Undergraduate Student Research Award to work on this project over the summer.

#### Dept. of Languages, Literatures and Cultures, Queen's University

#### Undergraduate Research Assistant

- Supervisors: Nathan Thanyehténhas Brinklow, Lorena Jessop
- Assisted with the development of an automatic speech recognition model for Kanyen'kéha, a polysynthetic language

## Publications \_\_\_\_\_

- Warburton, K., Kemp, C., Xu, Y. & Frermann, L. (2024). Quantifying bias in hierarchical category systems. *Open Mind: Discoveries in Cognitive Science*, *8*, 102-130.
- Warburton, K., Kemp, C., Xu, Y. & Frermann, L. (2023). Quantifying bias in library classification systems. *Proceedings of the Annual Meeting of the Cognitive Science Society, 45.*

## Presentations \_\_\_\_\_

2024

Warburton, K, Kemp, C., Xu, Y. & Frermann, L. (July, 2023). *Quantifying Bias in Library Classification Systems*. Annual Meeting of the Cognitive Science Society, Sydney, Australia. Conference Poster.

2021 - present Melbourne, Australia; Toronto, Canada

Sept. 2021 - Present

2017 - 2021

Kingston, Canada

May 2020 - April 2021

June 2019 - Aug. 2019

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## Teaching Experience\_\_\_\_\_

<ul> <li>University of Melbourne</li> <li>Academic Tutor</li> <li>PSYC30013: Research Methods for Human Inquiry (Semester 1 2024)</li> </ul>	Melbourne, Australia 2024-Present
<ul> <li>University of Toronto</li> <li>Guest Speaker</li> <li>Title: Quantifying Biases in Library Classification Systems</li> <li>Course: Data, Computation, and The Mind (COG260).</li> </ul>	Toronto, Canada November 2022
<ul> <li>University of Toronto</li> <li>Teaching Assistant</li> <li>CSC199: Intelligence, Artificial and Human (Fall Term 2022)</li> <li>CSC2611: Computational Models of Semantic Change (Fall Term 2022)</li> <li>CSC110: Foundations of Computer Science (Fall Term 2021)</li> </ul>	Toronto, Canada 2021-2022
<ul> <li>Queen's University</li> <li>Teaching Assistant</li> <li>CISC352: Artificial Intelligence (Winter Term 2021)</li> <li>COGS201: Cognition and Computation (Fall Term 2019; 2020)</li> <li>COGS100: Introduction to Cognitive Science (Summer Term 2019; Winter Term</li> <li>CISC121: Introduction to Computer Science (Fall Term 2018)</li> </ul>	Kingston, Canada 2018-2021 2020)
Awards	
<ul> <li>2021 Medal in Computing, Queen's University</li> <li>2020 NSERC Undergraduate Student Research Award, Queen's Uni</li> <li>2018-2021 Dean's Honour List, Queen's University</li> </ul>	iversity
Service & Outreach	
<ul> <li>2024 - 2025 Graduate Researchers in Psychological Sciences (GRiPS), Pre</li> <li>2023 Science Rendevous UofT, Volunteer</li> <li>2019 - 2020 Computing Students Association, Governance &amp; Internal Affair</li> </ul>	University of Toronto
Skills	

**Programming Languages**: Python, Javascript, R, MATLAB, Prolog, Java. **Other**: <code>ETEX</code>, HTML/CSS, SQL, and Markdown.