# Katie Warburton

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Education \_\_\_\_\_

## **Ph.D. in Cognitive Science**

2021 - present

University of Melbourne; University of Toronto

Melbourne, Australia; Toronto, Canada

- **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

2017 - 2021

Queen's University

Kingston, Canada

- Graduated with Distinction
- GPA: 4.2/4.3

Research Experience

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

Sept. 2021 - Present

**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 hierarchical category systems
- · Currently combining computational and experimental methods to explore order effects in hierarchical category systems

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

May 2020 - April 2021

**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

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

June 2019 - Aug. 2019

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*.

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

University of MelbourneMelbourne, AustraliaAcademic Tutor2024-Present

• PSYC30013: Research Methods for Human Inquiry (Semester 1 2024)

**University of Toronto** Toronto, Canada 2021-2022

**Teaching Assistant** 

- CSC199: Intelligence, Artificial and Human (Fall Term 2022)
- CSC2611: Computational Models of Semantic Change (Fall Term 2022)
- CSC110: Foundations of Computer Science (Fall Term 2021)

**Queen's University** Kingston, Canada **Teaching Assistant** 2018-2021

- CISC352: Artificial Intelligence (Winter Term 2021)
- COGS201: Cognition and Computation (Fall Term 2019; 2020)
- COGS100: Introduction to Cognitive Science (Summer Term 2019; Winter Term 2020)
- CISC121: Introduction to Computer Science (Fall Term 2018)

Awards		
2021	Medal in Computing, Queen's University	
2020	NSERC Undergraduate Student Research Award, Queen's University	
2018-2021	Dean's Honour List, Queen's University	
Service & Outreach		
2024 - 2025	Graduate Researchers in Psychological Sciences (GRiPS), President	University of Melbourne
2023	Science Rendevous UofT, Volunteer	University of Toronto
2019 - 2020	Computing Students Association, Governance & Internal Affairs Director	Queen's University

**Programming Languages**: Python, MATLAB, R, Prolog, Java, and SQL.

Other: LATEX, HTML/CSS, and Markdown.

Skills\_\_\_\_\_