

Katherine Eaton

PHD CANDIDATE · SOFTWARE DEVELOPER · BIOINFORMATICIAN · ANTHROPOLOGIST

Hamilton, Ontario, Canada

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Summary

Katherine is a multidisciplinary researcher, bridging the gap between the sciences as a computational biologist, and the humanities as an anthropologist of infectious disease. As a senior PhD candidate, she is occupied with writing papers, giving conference talks, and supporting laboratory training and facility operations.

Education

McMaster University

Hamilton, Canada

PHD IN ANTHROPOLOGY

2014 - Present

- Plague Phylogeography: Novel Synthesis and Geospatial Analysis
- Dr. Hendrik Poinar

University of Toronto Mississauga

Mississauga, Canada

OPEN STUDIES

2013 - 2014

- Coursework in Computer Science, Mathematics, and Bioinformatics.
- Dr. Esteban Parra

University of Alberta

Edmonton, Alberta

B.A. IN ANTHROPOLOGY

2009 - 2013

- Evaluation of biodeterioration in deer bone inoculated with *Amycolatopsis* sp. using SEM.
- Pamela Mayne Correia

Work Experience

McMaster University

Hamilton, Canada

MASTERS-TO-PHD FAST-TRACK STUDENT (DEPT. OF ANTHROPOLOGY)

2014 - Present

- Provide undergraduate-level course instruction and assessment (ANTH and BIO).
- Provide graduate-level training in laboratory techniques and computational analysis.

McMaster University

Hamilton, Canada

RESEARCH ASSISTANT (McMASTER ANCIENT DNA CENTRE)

2019 - 2021

- Bioinformatic Analysis.
- Manuscript Preparation.
- DNA Extraction, NGS Library Prep, Bacterial Genome Sequencing.

Lewis & Ruth Sherman Centre for Digital Scholarship

Hamilton, Canada

GRADUATE RESIDENT

2017 - 2021

- Software development for high-throughput genomic analyses.

MacData Institute

Hamilton, Canada

GRADUATE FELLOW

2017 - 2018

- Formation of the new McMaster Digital Pedagogy Working Group.
- Graduate Colloquium presentation, community building.

University of Toronto Mississauga

Mississauga, Canada

VOLUNTEER (DEPT. OF ANTHROPOLOGY)

2013 - 2014

- Annotation of genes associated with pigmentation in East Asian populations.

University of Alberta

Edmonton, Canada

UNDERGRADUATE THESIS STUDENT, (DEPT. OF ANTHROPOLOGY)

2012 - 2013

- Scanning Electron Microscopy (SEM) of bone.

University of Alberta

Edmonton, Canada

VOLUNTEER, SUMMER STUDENT (DEPT. OF SURGERY)

2011 - 2013

- Molecular biology assays and cell tissue culture, DNA sequence analysis.
- Immunodetection of genes involved in skeletal development.

Public Output

PEER-REVIEWED PUBLICATION

2020	A Black Death mass grave at Thornton Abbey, Lincolnshire: the discovery... , Co-Author	<i>Journal</i>
2020	NCBImeta: efficient and comprehensive metadata retrieval from NCBI databases , Author	<i>Journal</i>
2019	Genetic resiliency and the Black Death: No apparent loss of mitogenomic... , Co-Author	<i>Journal</i>

PRESENTATION

2021	Plague phylogeography: Novel synthesis and geospatial analysis , Presenter	<i>Podium</i>
2020	Presenting "The Plague": Digital exhibits as interdisciplinary method , Presenter	<i>Exhibit</i>
2019	Digging into digital anthropology: Project-based learning , Presenter	<i>Podium</i>

SOFTWARE

2021	Automatically create release notes and a changelog , Developer	<i>Github</i>
2016	Efficient and comprehensive metadata acquisition from the NCBI databases , Developer	<i>Github</i>

Honors & Awards

RESEARCH

2019	HASTAC Scholars Fellowship , \$600	<i>International</i>
2019	Sherman Centre for Digital Scholarship Bursary , \$500	<i>Hamilton, Canada</i>
2018	Anthropology Graduate Conference and Travel Competition , \$600	<i>Hamilton, Canada</i>
2012	Undergraduate Research Initiative , \$250	<i>Edmonton, Canada</i>
2012	Collective Body for Arts Students Individual Grant , \$500	<i>Edmonton, Canada</i>

ACADEMIC

2019-2021	McMaster Graduate Bursary , \$3400	<i>Hamilton, Canada</i>
2016-2019	Joseph-Armand Bombardier CGS Doctoral Scholarship , \$105000	<i>Hamilton, Canada</i>
2017	MacDATA Graduate Fellowship , \$7500	<i>Hamilton, Canada</i>
2015	Canadian Graduate Scholarship Master's Program , \$17500	<i>Hamilton, Canada</i>
2014-2017	Anthropology Graduate Scholarship , \$16000	<i>Hamilton, Canada</i>
2013	University of Toronto Advanced Planning for Students Grant , \$5000	<i>Mississauga, Canada</i>
2012	Erindale Bursary , \$800	<i>Mississauga, Canada</i>
2010-2012	Suncore Energy Scholarship , \$3000	<i>Edmonton, Canada</i>
2009-2021	Jason Lang Scholarship , \$4000	<i>Edmonton, Canada</i>

Committees & Service

2019-2021	Fellow , HASTAC Scholars	<i>International</i>
2019-2020	Co-Founder , McMaster Digital Pedagogy Working Group	<i>Hamilton, Canada</i>
2018	Conference Executive Chair , Rewriting Plague: History Meets Science	<i>Hamilton, Canada</i>
2017-2018	General Member , President's Advisory Council for Building an Inclusive Community	<i>Hamilton, Canada</i>
2016-2018	General Member , European Association of Archaeologists	<i>Hamilton, Canada</i>