

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.

- 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 | NCBI meta: 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

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|------|--|-------------------------|
| 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

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|-----------|--|-------------------------|
| 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> |