

Joelle Krystyna Hass

Email: joelle.hass@ucalgary.ca

Key Words: Biological Anthropology, Primatology, Disease Ecology, Ocular Surface Microbiome, Gut Microbiome

Education

Master of Arts, Biological Anthropology (Interdisciplinary Specialization)

**2023-
Present**

University of Calgary, Faculty of Graduate Studies

Thesis: Ocular and gut microbiome correlations with ocular hypertension in captive and free-ranging rhesus macaques (*Macaca mulatta*).

Supervisor: Dr. Amanda Melin

Bachelor of Science, Biological Anthropology (Honours First Class)

**2022-
2023**

University of Calgary, Faculty of Arts

Thesis: Effects of anthropogenic habitat disturbance on capuchin monkey (*Cebus imitator*) gastrointestinal parasite communities.

Supervisor: Dr. Amanda Melin

Bachelor of Nursing (With Distinction)

**2015-
2019**

University of Calgary, Faculty of Nursing

Specialization(s): Oncology and women's health.

Grants and Scholarships

Michael Smith Foreign Study Supplement Award (MSFSS)

\$6,000 2023

Social Sciences and Humanities Research Council

University of Calgary

Canada Graduate Scholarship-Master's (CGS-M)

\$17,500 2023

Social Sciences and Humanities Research Council

University of Calgary

Alberta Innovates Summer Research Studentship

\$5,625 2023

University of Calgary

For undergraduate research with a focus on new technologies, including genomics.

Louise McKinney Scholarship

\$2,500 2018

University of Calgary

Awarded to undergraduate students with outstanding academic achievement across all faculties.

Dr. Marlene Reimer Nursing Scholarship

\$1,000 2017

University of Calgary

Awarded to degree holder/transfer route nursing students for outstanding academic achievement.

Owen Family Scholarship

\$540 2017

University of Calgary

Offered to new undergraduate students entering any faculty for academic merit and contributions to community life.

Louise McKinney Scholarship

\$2,500 2016

University of Calgary

Awarded to undergraduate students with outstanding academic achievement across all faculties.

President's Admission Scholarship

\$2,000 2015

University of Calgary

Alexander Rutherford Scholarship

\$2,500 2015

University of Calgary

Academic Awards and Honours

Dean's List

2023

University of Calgary

Faculty of Arts

Dean's List

2019

University of Calgary

Faculty of Nursing

Dean's List

2018

University of Calgary

Faculty of Nursing

University of Calgary Undergraduate Merit Award

\$500 2018

University of Calgary

Faculty of Nursing

Publications and Presentations

Peer Reviewed Journal Articles

- Hass, J.K.***, Henriquez, M.C.*, Churcher, J., Hamou, H., Morales, S. R., & Melin, A.D. (2024). Assessing morphological preservation of gastrointestinal parasites from fecal samples of wild capuchin monkeys (*Cebus imitator*) stored in ethanol versus formalin. *Scientific Reports* 14, 3623 (2024).
<https://doi.org/10.1038/s41598-024-53915-2> 2024

Conference Posters

- Hass, J.K.*** & Churcher, J.* (2023). *Melin Lab parasite research projects* [Poster]. Host Parasite Interaction Network Spring Symposium, Calgary, AB, Canada. Won Best Poster award. 2023

- Henriquez, M.C., Hamou, H., Churcher, J., **Hass, J.K.**, Morales, S. R., Swedell, L., & Melin, A. (2023). *Morphological and molecular identification of gastrointestinal parasites reveals species diversity in wild capuchin monkeys (Cebus imitator)* [Poster]. Molecular Helminthology Meeting 2023: From Fundamental Biology to Practical Applications. Madison, Wisconsin, USA. 2023

- Henriquez, M.C., Hamou, H., Churcher, J., **Hass, J.K.**, Morales, S. R., Swedell, L., & Melin, A. (2022). *Examining population dynamics to assess costs of sociality in a wild mammal* [Poster]. International Society for Behavioural Ecology Congress. Stockholm, Sweden. 2022

Department Posters

- Hass, J.K.**, Fernandez, A., Hernandez Rojas, R., Hamou, H., & Melin, A. (2023). *Eyes from a nonhuman primate perspective*. [Poster]. Celebration of Achievement for Summer Research, Calgary, AB, Canada. 2023

- Hass, J.K.**, Henriquez, M.C., Churcher, J., Hamou, H., Morales, S. R., & Melin, A. (2023). *Anthropogenic habitat disturbance and host-parasite dynamics in wild capuchin monkeys (Cebus imitator)* [Poster]. Department of Anthropology and Archaeology Undergraduate Research, Calgary, AB, Canada. 2023

- Churcher, J., Henriquez, M.C., **Hass, J.K.**, Morales, S. R., & Melin, A. (2023). *Parity and parasites: Exploring parasite diversity and infection intensity in female white-faced capuchin mothers* [Poster]. Department of Anthropology and Archaeology Undergraduate Research, Calgary, AB, Canada. 2023

Research Experience

Masters Thesis

2023-
Present

University of Calgary

- *Project:* Ocular and gut microbiome correlations with ocular hypertension across the lifespan in captive and free-ranging rhesus macaques (*Macaca Mulatta*).
- Eye, oral, and rectal microbiome swab collection from live primates.
- Bacterial DNA extractions and 16S amplicon sequencing.
- Bioinformatic analyses in command line and R.

Summer Research Internship

2023

University of Calgary and New York State University

- DNA extractions, Qubit, and ddPCR protocols for the analysis of samples from two primate species, rhesus macaques (*Macaca mulatta*) and white-faced capuchin monkeys (*Cebus imitator*).

Undergraduate Honours Thesis

2022-
2023

University of Calgary

- *Project:* Effects of anthropogenic habitat disturbance on gastrointestinal parasites in wild capuchin monkeys (*Cebus imitator*).
- Morphological analysis of nematode parasites in fecal samples utilizing microscopy.
- Building figures in QGIS to explore capuchin monkey home ranges and overlap with anthropogenic features.

Undergraduate Independent Research

2022

University of Calgary

- *Project:* Assessing the efficacy of ethanol and formalin for preservation of parasite morphological features in fecal samples from wild white-faced capuchin monkeys (*Cebus imitator*).
- Morphological analysis of nematode parasites in fecal samples utilizing microscopy.

Primate Field School

2017

University of Calgary

- Behavioural ecology study of wild black howler monkeys (*Alouatta pigra*) in Monkey River, Belize.

- Fecal sample collection, behavioural data collection, quadrat analysis, GPS mapping of habitat, and descriptive data analysis.

Teaching Experience

Graduate Teaching Assistant

Winter
2024

Department of Anthropology and Archaeology, University of Calgary

- Course: ANTH 399 Roots of the Anthropocene
- Managed online resources and communications, offered in-person office hours twice a week for student support, grading.

Graduate Teaching Assistant

Winter
2024

Department of Anthropology and Archaeology, University of Calgary

- Course: ANTH 445 Behavioural Ecology of Small Scale Societies
- Graded papers, exams, and presentations, offered in-person student support.

Graduate Teaching Assistant

Fall
2023

Department of Anthropology and Archaeology, University of Calgary

- Course: ANTH 305 Human Adaptation and Variation
- Managed online resources and communications, graded exams and assignments, offered online student support.

Nursing Experience

Medical/Surgical Gyne-oncology

2019-
Present

Foothills Medical Center, Unit 42

Registered Nurse. Acute care medical, surgical, and palliative management of cancers of the female reproductive organs. Communication with patients and families. Interdisciplinary healthcare coordination.

Entry Management/Covid Response Team

2021-
2023

Foothills Medical Center

Charge Nurse. Management of Covid-19 precautions for Foothills Medical Center: team leadership, communications, staff coordination, policy dissemination, staff and public education.

Advanced Dementia Care

2020-
2021

George Boyack Carewest

Registered Nurse. Community-based, family-centered medical and palliative management of aging processes and advanced dementia symptoms. Patient and family communication and education.

Professional Memberships

American Society of Primatologists (ASP)	2024- Present
Canadian Association of Nurses in Oncology (CANO)	2019- Present
College of Registered Nurses of Alberta (CRNA)	2019- Present
United Nurses of Alberta (UNA)	2019- Present

References

Dr. Amanda Melin

Associate Professor, Canada Research Chair, Tier II
Anthropology and Archaeology & Medical Genetics, University of Calgary
Undergraduate and Master's Thesis Supervisor
amanda.melin@ucalgary.ca
403-210-7579

Dr. Arthur Fernandes

Postdoctoral Researcher, Melin Lab
Anthropology and Archaeology, University of Calgary
Master's Thesis Research Mentor
arthur.fernandes@ucalgary.ca

Dr. Hugh Notman

Associate Dean, Research and Learning
Associate Professor, Biological Anthropology, Athabasca University
Adjunct Professor,
Anthropology and Archaeology, University of Calgary
Undergraduate Field School Supervisor
hgwnotma@ucalgary.ca
403-220-6874