

# Lily Hou

Curriculum Vitae

[houl@ucalgary.ca](mailto:houl@ucalgary.ca)

Department of Anthropology and Archaeology, University of Calgary  
2500 University Drive NW, Calgary Alberta T2N 1N4, Canada

## EDUCATION

---

### University of Calgary

- Master of Arts in Biological Anthropology **Current**
  - Thesis: Reconstructing fossil rodent locomotion using semicircular canal morphology
  - Supervisors: Susanne Cote, Campbell Rolian

### University of Calgary

**2017**

- Bachelor of Science in Zoology with Distinction
- Minor in Anthropology
- Cumulative GPA: 3.94

## SCHOLARSHIPS

---

- 2022** Alberta Graduate Excellence Scholarship (AGES) – Master’s (\$11000 CAD)
- 2021** NSERC Canada Graduate Scholarships – Master’s (\$17500 CAD)
- 2021** University of Calgary Graduate Studies Scholarship (\$2500 CAD)
- 2021** Faculty of Graduate Studies Master’s Research Scholarship (\$500 CAD)
- 2017** NSERC Undergraduate Student Research Award (USRA) for summer research (\$6000 CAD)
- 2017** University of Calgary Alumni Association Dr. Gayla Rogers 2010 Distinguished Alumni Bursary (\$2200 CAD)
- 2016** Jason Lang Scholarship (\$1000 CAD)
- 2016** University of Calgary Bamfield Awards (\$1140 CAD)
- 2015** Fischer Family Bursary (\$3675 CAD)
- 2015** Jason Lang Scholarship (\$1000 CAD)
- 2014** Norman and Ruth (McTavish) Mani Science/Engineering Bursary (\$5150 CAD)
- 2014** Louise McKinney Post-Secondary Scholarship (\$2500 CAD)
- 2014** President's Admission Scholarship – Renewal (\$2000 CAD)
- 2013** President's Admission Scholarship (\$2000 CAD)
- 2013** Student Peer Assistance Entrance Bursary (\$500 CAD)
- 2013** Alexander Rutherford Scholarship (\$2500 CAD)

## AWARDS

- 2023** Mildred Trotter Prize for Outstanding Student Presentation - American Association of Biological Anthropologists (\$500 USD)
- 2023** Nominated – University of Calgary Students’ Union Teaching Excellence Award
- 2014 – 17** University of Calgary Faculty of Science Dean’s List

## ACADEMIC RESEARCH PRESENTATIONS

---

6. **Hou, L.**, Bertrand, O.C., Mudannayake, H., MacLatchy, L., Rolian, C., Cote, S. 2023. Reconstructing fossil locomotion in rodents using semicircular canal morphology. American Association of Biological Anthropologists Meeting, Reno, Nevada.
5. Bradley, M., **Hou, L.**, Sparrow, L.M., Pellatt, E., Farooq, S., Rolian, C. 2017. Using model organisms to reconstruct locomotor behaviors in fossil primates. 45<sup>th</sup> Annual Meeting of the Canadian Association for Physical Anthropology, Edmonton, Alberta.
4. **Hou, L.**, Sparrow, L., Rolian, C. 2017. The effect of limb length on the cost of transport and gait in the Longshanks mouse. SURE Research Day, Calgary, Alberta.
3. Bradley, M., **Hou, L.**, Sparrow, L.M., Rolian, C. 2016. Jumping performance in the Longshanks mouse. International Congress of Vertebrate Morphology 11, Washington, DC.
2. **Hou, L.** 2016. Escape locomotion of the plainfin midshipman (*Porichthys notatus*). Functional Ecology 2016 Final Presentations. Bamfield, British Columbia.
1. Bradley, M., **Hou, L.**, Sparrow, L., Rolian, C. 2015. Jumping performance in the Longshanks mouse. SURE Research Day, Calgary, Alberta.

## RESEARCH EXPERIENCE

---

### Research Assistant

April 2017 – September 2017

Faculty of Veterinary Medicine, University of Calgary

- Investigated cost of transport and gait analysis in the Longshanks mouse
- Metabolic and gait data acquisition and analysis

### Research Assistant

July 2015 – August 2016

Faculty of Veterinary Medicine, University of Calgary

- Investigated jumping performance in the Longshanks mouse
- Performed biomechanics research design, high speed videography, data analysis

## GUEST LECTURES/TALKS

---

University of Calgary, Department of Anthropology and Archaeology – July 2023

Guest lecture “Morphology and Behaviour in Primates” in Anthropology 311: Primate Behaviour

University of Calgary, Department of Anthropology and Archaeology – March 2023

Guest lecture “Applications of Human Osteology” in Archaeology 555: Human Osteology

University of Calgary, Department of Anthropology and Archaeology – October 2022

Guest lecture “Primate Evolution” in Anthropology 201: Introduction to Biological Anthropology

## WORK EXPERIENCE

---

- Operations Manager** 2018 – 2021  
Camp Brand Goods
- Managed day to day business operations, reporting, bookkeeping, ecommerce, and inventory
  - Team management, trained new hires on warehouse systems and logistics

## LEADERSHIP EXPERIENCE

---

- Anthropology and Archaeology Department Talks Finance Lead** 2022-23  
Department of Anthropology and Archaeology, University of Calgary
- Apply for funding grants to support event hosting, guest speaker honorariums
  - Purchase refreshments and ensure proper expense bookkeeping
- Gender and Sexuality Alliance Subcommittee Member** 2021-23  
Graduate Students' Association, University of Calgary
- Create and host community events for LGBTQ+ graduate students and allies
  - Collaborate with other GSA committees for university-wide events
- Graduate-Undergraduate Mentorship Program Mentor** 2021-22  
Department of Anthropology and Archaeology, University of Calgary
- Mentorship of one 4<sup>th</sup> year undergraduate student
  - Provide advice, resources, and connections to student regarding graduate school
- Sophomore Leadership Program (SLP) Peer Helper** 2015-17  
University of Calgary
- Facilitated an engaging environment for 2nd year students to develop leadership skills
  - Organized group socials and program wide events
- Sophomore Leadership Program (SLP) Participant** 2014-15  
University of Calgary
- Developed skills in senior leadership, career development, civic engagement
- Emerging Leaders Program (ELP) Participant** 2013-14  
University of Calgary
- Developed skills in leadership, civic engagement, and personal growth

## COMMUNITY AND VOLUNTEER ACTIVITIES

---

- Calgary Outlink Board Member** Current
- Participate in the governing body for the 2SLGBTQ+ community-based organization
  - Ensure organization mission and vision is integrated in all decision-making processes
  - Engage in finance and cultural competency committees, developing strategic plans and policies

## Westwinds Musician

2017 – 2020

Westwinds Music Society

- Rehearsed and performed music with the Westwinds Wind Orchestra, promoting a collaborative learning environment for adult musicians

## ADDITIONAL TRAINING

---

### Courses

- SlicerMorph Workshop – American Association of Biological Anthropologists Meeting, 2023
- Morphological Phylogenetics: Principles, applications, and techniques – Transmitting Science, 2022
- Geometric Morphometrics for Beginners- Transmitting Science, 2022
- Micro-CT Short Course – University of Texas Austin, 2022

### Other Skills

- Fluent in English, Cantonese Chinese
- Proficient in micro-CT data acquisition, segmentation, 3D modelling
- Proficient in R, basic and multivariate statistical analyses
- Proficient in Microsoft Office Suite, Adobe Suite (Photoshop, Premiere Pro, After Effects, Illustrator)
- Proficient in using AOS high speed cameras, AOS Imaging Studio, ProAnalyst Motion Analysis software (2D and 3D)

## REFERENCES

---

Dr. Susanne Cote

Department of Anthropology and Archaeology, University of Calgary

2500 University Drive NW, Calgary Alberta T2N 1N4, Canada

[scote@ucalgary.ca](mailto:scote@ucalgary.ca)

403-220-8190

Dr. Campbell Rolian

Faculty of Veterinary Medicine, University of Calgary

2500 University Drive NW, Calgary Alberta T2N 1N4, Canada

[cprolian@ucalgary.ca](mailto:cprolian@ucalgary.ca)

403-210-3888