

Madison Bradley-Cronkwright

curriculum vitae

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Education

Duke University PhD Candidate Evolutionary Anthropology

Anticipated 2025 *Dissertation:* Integrated investigation of strepsirrhine leaping and its morphological correlates

Committee: Dr. Douglas Boyer (primary advisor), Dr. Rich Kay, Dr. Daniel Schmitt, Dr. Sheila Patek and Dr. Jesse Young

University of Calgary MA Biological Anthropology with Interdisciplinary Specialization

2019 *Thesis:* A test of the effect of hindlimb elongation on jumping performance using Longshanks mice (available [here](#))

Committee: Dr. Campbell Rolian (co-advisor), Dr. Susanne Cote (co-advisor), Dr. John Bertram, Dr. Doug Syme

University of Calgary BSc Biology with Distinction, Anthropology Minor

2015

Publications

Bradley-Cronkwright M, Moore S, Hou L, Cote S, Rolian C. **2024**. Impact of hindlimb length variation on jumping dynamics in the Longshanks mouse. *Journal of Experimental Biology* 227(9): jeb246808

Boulinguez-Ambroise G, Boyer DM, Dunham NT, Yapuncich GS, **Bradley-Cronkwright M**, Zeininger A, Schmitt D, Young JW. **2024**. Biomechanical and morphological determinants of maximal jumping performance in callitrichine monkeys. *Journal of Experimental Biology* 227(18): jeb247413.

Boulinguez-Ambroise G, Dunham N, Phelps T, Mazonas T, Nguyen P, **Bradley-Cronkwright M**, Boyer DM, Yapuncich GS, Zeininger A, Schmitt D, Young JW. **2023**. Jumping performance in tree squirrels: Insights into primate evolution. *Journal of Human Evolution* 180: 103386.

McCrae P, **Bradley MM**, Rolian C and Léguillette R. **2020**. Water height modifies forelimb kinematics of horses during water treadmill exercise. *Comparative Exercise Physiology*: 1-8.

Bradley MM, Perra M, Ahlstrøm Ø, Jenssen BM, Jørgensen EH, Fuglei E, Muir DC, Sonne C. **2019**. Mandibular shape in farmed Arctic foxes (*Vulpes lagopus*) exposed to persistent organic pollutants. *Science of The Total Environment* 646: 1063-1068.

Publications In Progress

Bradley-Cronkwright M, Anaya A, Fulwood EL, Shan S, Ravier R, Winchester J, Daubechies I, Gao T, Boyer DM. *In preparation*. Applying the *hecate* algorithm to divide dental surfaces, revealing evolutionary patterns in cusp evolution unaccounted for by analyses of whole teeth. To be submitted to *Nature Communications*.

Boyer DM, Alexander J, Borths M, **Bradley-Cronkwright M**, Dunn R, Fulwood EL, Griffin R, Harrington A, Heritage S, Holroyd P, Gonzales LA, Maiolino S, Morse PE, Seiffert ER, Secord R, Shan S, Stone J, Winchester JM, Yapuncich GS, Bloch JL. *In preparation*. An extensive collection of new fossils reveals insights into primate origins. To be submitted to *Nature*.

Bradley-Cronkwright M, Perra M, Unnsteinsdóttir ER. *In preparation*. Temporal and spatial trends in mandibular shape of the Icelandic Arctic Fox (*Vulpes lagopus*). To be submitted to *Oikos*.

Boulinguez-Ambroise G, **Bradley-Cronkwright M**, Yapuncich G, Zeininger A, Boyer D, Dunham N, Schmitt D, Young J. *In preparation*. Deficits in jumping performance and changes to jump dynamics associated with torpor in fat-tailed dwarf lemurs (*Cheirogaleus medius*). To be submitted to *International Journal of Primatology*.

Boulinguez-Ambroise G, **Bradley-Cronkwright M**, Yapuncich G, Zeininger A, Boyer D, Dunham N, Schmitt D, Young J. *In preparation*. Jumping performance in tree shrews (*Tupaia*) and dwarf lemurs (*Cheirogaleus*): Implications for primate evolution. To be submitted to *Journal of Experimental Biology*.

Bradley-Cronkwright and Boyer DM. *In preparation*. Examining causal pathways driving the allometry of basal metabolic rate using Bayesian inference and a DAG framework. To be submitted to *Anatomical Records*.

Spotlights, Media Coverage, and Science Communication

- 2024 [Early Career Researcher Spotlight](#) (in *Journal of Experimental Biology*) – Interview
[Long shanks make jumping easier in mice](#) – Inside JEB; Article by Jarren Kay
- 2023 [Duke Graduate School PhD Fellowship Snapshot](#) - Interview
- 2019 [On the trail of ancient primates: Digging into lemur history](#) – Article in Duke Lemur Center Magazine by Matt Borths
[What's your story? Academiology and other ways grad students can sharpen their communication skills](#) – Interview within Ucalgary News; Article by Dan Ferguson
- 2017 [Seafood and Symmetry in the Icelandic Arctic Fox](#) – Video by Megan Perra

Awards and Recognitions

- 2024 William S. Pollitzer Travel Award (\$500) – American Association of Biological Anthropologists
- 2019 (*Nomination*) Distinguished Master's Thesis – Western Associate of Graduate Schools
(*Nomination*) Governor General's Gold Medal – University of Calgary
(*Nomination*) Chancellor's Graduate Medal – University of Calgary
- 2018 Mildred Trotter Prize for Exemplary Student Research (\$500) – American Association of Biological Anthropologists
William S. Pollitzer Travel Award (\$500) – American Association of Biological Anthropologists
- 2017 Volunteer Excellence Award – University of Calgary Graduate Student Association
- 2015 Dean's List – University of Calgary Faculty of Science
- 2014 Dean's List – University of Calgary Faculty of Science
- 2013 Dean's List – University of Calgary Faculty of Science
- 2011 Valedictorian – Alberta High School of Fine Arts

Grants, Fellowships and Scholarships

- 2025 Duke Graduate School COVID Funding Extension (\$16,666)
- 2024 Duke Graduate School Conference Travel Award (\$585)
- 2023 Myra and William Waldo Boone Fellowship (\$28,950)
- 2021 Duke Lemur Center's Director's Fund (\$1200)
Duke Summer Research Fellowship (\$6500)
Department of Evolutionary Anthropology Graduate Mentorship Funds (\$500)
- 2020 Natural Sciences and Engineering Research Council of Canada Doctoral Scholarship (\$63,000)
Alexander Graham Bell Canada Graduate Scholarship - Doctoral (\$105,000, *declined*)
Duke University Dissertation Research Travel Award: Domestic (\$1100)
Duke Summer Research Fellowship (\$6500)
- 2019 Queen Elizabeth II Masters Scholarship (\$3600)
University of Calgary Graduate Student Association Professional Development Grant (\$750)
- 2018 University of Calgary Faculty of Graduate Studies Masters Scholarship (\$10,000)
Alberta Graduate Student Scholarship (\$3000)
Profiling Alberta Graduate Student Travel Award (\$800)
- 2017 Queen Elizabeth II Masters Scholarship (\$10,800)
Department of Anthropology and Archeology Graduate Research Scholarship (\$2000)
University of Calgary Graduate Student Association Quality Money Grant (\$300)
- 2016 Queen Elizabeth II Entrance Scholarship (\$7200)
- 2015 University of Calgary Veterinary Medicine Undergraduate Research Experience (\$6000)

- 2014 University of Calgary Bamfield Award (\$1187.50)
Government of Alberta Jason Lang Scholarship (\$1000)
- 2013 Government of Alberta Jason Lang Scholarship (\$1000)
- 2011 Imperial Oil Higher Education Award (\$20,000)
University of Calgary President's Admission Scholarship (\$2000)
Government of Alberta Alexander Rutherford Scholarship (\$2500)
Town of Okotoks Elk's Scholarship (\$500)
Town of Okotoks Annual Academic Award (\$500)

Research Experience

Graduate Student Research Assistant Current	Boyer Lab and Duke Lemur Center at Duke University <i>Measuring leaping performance, evaluating its anatomical correlates, and reconsidering the importance of leaping in primate origins and early evolution.</i> Funding: NSF BCS 2020434
Research Assistant 2019 from 2015	Rolian Lab at the University of Calgary <i>Function and whole organism performance of the Longshanks mouse.</i> Funding: Canada Foundation for Innovation – John R. Evans Leaders Fund
Visiting Researcher 2018	Vöktun refastofnsins (Arctic Fox Population Monitoring) at Náttúrufræðistofnunar Íslands (Icelandic Institute of Natural History) <i>Geometric morphometric data collection of arctic fox mandible for ecomorphological analyses.</i>
Independent Undergraduate Research 2014	Bamfield Marine Sciences Centre <i>Effects of substrate particle size on locomotor kinematics of the northwestern garter snake, <i>Thamnophis ordinoides</i>.</i>

Field Experience

Field Assistant 2019	New North American Primates from the PETM <i>Paleontological work at Eocene localities in Wyoming and Montana; lead by Drs. Douglas Boyer (Duke) and Matthew Borths (Duke).</i>
Field Assistant 2018 from 2017	New and Rediscovered Devonian Fish Localities <i>Paleontological work in Kananaskis, Alberta, Canada; lead by Drs. Jason Anderson (University of Calgary) and Pardo (University of Calgary).</i>
Field Assistant 2017	North American Paleocene and Eocene Mammals <i>Paleontological work at Paleocene and Eocene localities in Southwest Saskatchewan, Canada; lead by Dr. Jonathan Perry (Johns Hopkins)</i>
Field Assistant 2016	Research on East African Catarrhine and Hominoid Evolution <i>Paleontological and geological work at Early Miocene localities on Rusinga Island, Kenya; lead by Drs. Kieran McNulty (University of Minnesota), Susanne Cote (University of Calgary), Thomas Lehmann (Senckenberg Research Institute) and Lauren Michel (Tennessee Tech)</i> Funding: NSF BCS 1241812
Undergraduate Research 2013	New World Primate Behavior and Ecology <i>Ranging behavior of three endemic primate species in a forest fragment on the El Zota Estacion Biologica (Biological Field Station) in Costa Rica; lead by Dr. Lorna Joachim (University of New Mexico)</i>

Abstracts and Presentations

Published Abstracts

Boulinguez-Ambroise G, **Bradley-Cronkwright M**, Dunham N, Yapuncich G, Schmitt D, Zeininger A, Boyer D, Young J. **2025**. Jumping performance in tree shrews (*Tupaia*) and dwarf lemurs (*Cheirogaleus*): Implications for primate evolution. *Annual Meeting of The Society For Integrative and Comparative Biology. Atlanta, Georgia*.

Bradley-Cronkwright M, Yapuncich G, Boulinguez-Ambroise G, Dunham N, Zeininger A, Schmitt D, Young JW, Boyer DM. **2024**. Vertical Jumping Agility as a Key Measure of Performance in Strepsirrhine Primates. *Annual Meeting of the American Association of Biological Anthropologists. Los Angeles, California*. Podium.

Boulinguez-Ambroise GP, Dunham N, **Bradley-Cronkwright M**, Boyer DM, Yapuncich GS, Zeininger A, Schmitt D and Young JW. **2023**. How to surpass yourself at jumping: A lesson from zoo-living bicolor tamarins and Goeldi's monkeys. *Annual Meeting of the American Society of Primatologists. Reno, Nevada*.

Bradley-Cronkwright M, Perra M, Unnsteinsdóttir ER. **2022**. Temporal trends in mandibular shape of the Icelandic arctic fox (*Vulpes lagopus*). *International Conference for Arctic Fox Biology, Svalbard, Norway*. Virtual Podium.

Fulwood EL, Harper T, **Bradley-Cronkwright M**, Anaya A, Dickson B, Boyer D. **2022**. Modelling dietary adaptation in the protoconid cusp using power law parameters. *Annual Meeting of the American Association of Biological Anthropologists. Denver, Colorado*.

Yapuncich GS, Hegarty E, **Bradley-Cronkwright M**, Boulinguez-Ambroise G, Dunham N, Zeininger A, Schmitt D, Young JW, Boyer DM. **2022**. Relative hindlimb length segmental proportions as indicators of locomotor category in primates, rodents, and tree shrews. *Annual Meeting of the American Association of Biological Anthropologists. Denver, Colorado*.

Bradley-Cronkwright M, Anaya AD, Fulwood EL, Ravier R, Winchester J, Daubechies I, Boyer D. **2021**. An automated approach to studying the evolution of the paraconid cusp in a comprehensive sample of fossil and extant Euarchonta. *Annual Meeting of the Society of Vertebrate Paleontology*. Virtual Podium.

Bradley-Cronkwright M, Boyer D, Bloch J. **2021**. Investigation of cuboid elongation and variation in tarsal proportions of early primates. *American Associate of Physical Anthropologists Annual Meeting. Baltimore, Maryland*. Virtual Podium.

Perchalski B, **Bradley M**, Boyer D. **2020**. Predicting descent locomotion in early primates based on morphology and behavioral observations of extant taxa. *American Association of Physical Anthropologists Annual Meeting. Los Angeles, California*.

Bradley MM, Moore S, Rolian C. **2019**. Musculotendinous changes associated with hindlimb bone elongation in the Longshanks mouse. *American Association of Physical Anthropologists Annual Meeting. Cleveland, Ohio*. Poster.

Greco-Otto P, **Bradley M**, Rolian C, Leguilette R. **2019**. Water treadmill exercise alters limb joint range of motion, but prolonged water treadmill training does not alter on-land kinematics. *American College of Veterinary Sports Medicine Surgical Summit. Las Vegas, Nevada*.

Bradley MM, Rolian C. **2018**. Assessing biomechanical hypotheses about hind-limb elongation in jumping primates using Longshanks mice. *American Association of Physical Anthropologists Annual Meeting. Austin, Texas*. Podium.

Bradley MM, Hou L, Sparrow L, Rolian C. **2016**. Jumping performance in the Longshanks mouse. *International Congress of Vertebrate Morphology, Washington, DC*. Podium.

Bradley MM, Hou L, Sparrow L, Rolian C. **2016**. Jumping performance in the Longshanks mouse. *International Congress of Vertebrate Morphology, Washington, DC*. Podium.

Bradley MM, Hou L, Sparrow L, Pellatt E, Farooq S, Rolian C. **2017**. Using Model Organisms to Reconstruct Locomotor Behaviours in Fossil Primates. *Canadian Association of Physical Anthropologists, Edmonton, Alberta*. Invited Podium Symposium: "Exploring the Limits of the Discipline: Defining Palaeoanthropological Research"

Bradley MM, Perra M, Ahlstrøm Ø, Jenssen BM, Jørgensen E, Fuglei E, Muir DCG, Sonne C. **2017**. Dietary Exposure to Persistent Organic Pollutants Increase Asymmetry and Affects Periodontal Disease in Farmed Arctic Foxes (*Vulpes lagopus*). *International Conference for Arctic Fox Biology, Rimouski, Quebec*. Poster.

Additional Conference Presentations

Bradley-Cronkwright M, Yapuncich G, Boulinguez-Ambroise G, Dunham N, Zeininger A, Schmitt D, Young JW, Boyer DM. **2024**. Vertical Jumping Agility as a Key Measure of Performance in Strepsirrhine Primates. *10th Annual Southeastern Bioanthropology Interest Group (SEBIG) Meeting, UNC Chapel Hill, North Carolina*. Podium.

Greco-Otto P, **Bradley M**, Rolian C, Leguillette R. **2019**. Water height modifies forelimb kinematics of horses during water treadmill exercise. *Calgary International Equine Symposium, Calgary, Canada*.

Greco-Otto P, **Bradley M**, Rolian C, Leguillette R. **2019**. The effect of water height during water treadmill exercise on forelimb range of motion. *American Association of Veterinary Anatomists, Banff, Canada*.

Bradley M, Hou L, Sparrow L, Pellatt E, Farooq S, Rolian C. **2017**. Using Model Organisms to Reconstruct Locomotor Behaviours in Fossil Primates. *Canadian Association of Physical Anthropologists, Edmonton, Alberta*. Invited Podium Symposium: "Exploring the Limits of the Discipline: Defining Palaeoanthropological Research."

Internal Conferences, Workshops and Seminars

† denotes mentorship role

Bradley-Cronkwright M. **2024**. Research Update: Vertical jumping agility in strepsirrhine primates. *Duke University Department of Evolutionary Anthropology Talk Series (EATS)*.

Bradley-Cronkwright M. **2023**. Research Update: An automated approach to studying the evolution and coevolution of dental cusps. *Duke University Department of Evolutionary Anthropology Talk Series (EATS)*.

Bradley-Cronkwright M. **2021**. Research Update: Feet, Teeth, and Foxes. *Duke University Department of Evolutionary Anthropology Talk Series (EATS)*.

Oliver Z[†], Stone J, Anaya A, **Bradley-Cronkwright M**, Boyer D. **2023**. Influences of locomotor mode on hand and foot bone scaling in primates. *Duke University Summer Research Showcase*.

Bradley M, Rolian C. **2018**. Potential evidence for force reduction during jumping behaviour as a consequence of hindlimb elongation. *5th Annual McCaig Meeting on Musculoskeletal Diseases*.

Zhao R[†], **Bradley M**, Rolian C. **2017**. Effect of High-Fat Diets on Bone Microarchitecture in TallyHo Mice. *Heritage Youth Research Summer (HYRS) Symposium*.

Bradley M, Hou L[†], Sparrow L, Rolian C. **2017**. Jumping Performance in the Longshanks Mouse *University of Calgary Department of Anthropology and Archaeology – ANARKY Talk Series*.

Bradley M, Butts C. **2017.** Rusinga Island Field Training: Applications. *University of Calgary East African Research Symposium.*

Bradley M, Hou L†, Sparrow L, Rolian C. **2015.** Jumping performance in the Longshanks mouse. *University of Calgary SURE Research Day.*

Bradley M, Antos C, Higham T. **2014.** Swimming, slithering, and sidewinding: the impact of habitat on the locomotor dynamics of the northwestern garter snake, *Thamnophis ordinoides*. *Bamfield Marine Sciences Center Research Seminar.*

Community Talks

Bradley M, Butts C, Bundala M. **2018.** Paleoanthropology and Evolution. *Centennial High School, Calgary, Canada.*

Bradley M, Butts C. **2018.** 'An Afternoon with Paleoanthropologists. *Amica Senior Living and Maison Senior Living, Calgary, Canada.*

Bradley M, Butts C. **2018.** 'Human evolution and our ancestors. *Lake Bonavista Village Assisted Living, Calgary, Canada.*

Bradley M. **2018.** Seafood and symmetry in the Icelandic Arctic Fox. *The Blue Bank (Blábankinn), Thingeyri (Þingeyri), Iceland.*

Bradley M. **2018.** Seafood and symmetry in the Icelandic Arctic Fox. The Arctic Fox Center (Melrakkasetur), Sudavik, Iceland.

Bradley M. **2015.** Science 9 Guest Lesson. *George Macdougall High School, Airdrie, Canada.*

Guest Lectures

- 2021 Primate Locomotor Specializations – Duke University Primate Anatomy
Functional Morphology and Diet (Guided Virtual Activity) – Duke University Introduction to Evolutionary Anthropology
Introduction to Biomechanics and Primate Locomotion – Duke University Introduction to Evolutionary Anthropology
- 2020 How Primates Move – Duke University Introduction to Evolutionary Anthropology
- 2019 Primate Locomotion – Duke University Primate Anatomy
Study Strategies and Consolidating a Semester – University of Calgary Introduction to Biological Anthropology
- 2018 Biomechanics and Human Evolution – University of Calgary Human Evolution
The Biological Basis of Human Variation – University of Calgary Introduction to Biological Anthropology
A Brief Overview of (Eu)Primate Evolution – University of Calgary Introduction to Biological Anthropology
What It Means to be a “Hominin” – University of Calgary Introduction to Biological Anthropology
- 2017 The Genus *Homo* and the Endurance Running Hypothesis – University of Calgary Human Evolution
- 2016 Genus *Homo* Behavior: the Endurance Running Hypothesis – University of Calgary Human Evolution

Volunteer and Outreach Activities

Panelist 2023	Data Visualization in R <i>Workshop for Summer Internship Program hosted by Duke Evolutionary Anthropology</i>
Activity Leader 2021, 2022, 2023	FEMMES+ (Females and allies Excelling More in Math, Engineering, and Science) Capstone Program for students in grades 4 through 6 <i>Dig to Description: How We Learn About Fossil Primates;</i> <i>Primate Brains: Evolving Nature's Supercomputer</i>
Activity Leader 2022	Lemurpalooza <i>Duke Lemur Center</i>
Booth Organizer 2021	Darwin Day <i>North Carolina Museum of Natural History</i>
Orientation Peer 2021	International House (now Duke International Student Center) <i>Duke University</i>
Panelist 2021, 2020	Graduate Student (Duke University Evolutionary Anthropology Department) led initiative to host a series of virtual panels and workshops targeted towards demystifying academia for student with identities underrepresented in STEM <i>Faculty and Graduate Student Perspectives: Applying to Graduate School (Fall 2021), Navigating Graduate School: Applying for Funding (Summer 2021), Essential Tips for Graduate School Interviews (Spring 2021), Applying to Graduate School: How to Be a Competitive Ph.D. Applicant (Fall 2020).</i>
Committee Member 2019	Graduate and Professional Student Council's Community Outreach Committee <i>Duke University</i>
Editor 2019 from 2016	Graduate Student Association's 'academology.ca' Blog Initiative: a blog about the graduate experience with graduate student guest writers. <i>University of Calgary</i>
Team Leader 2019 from 2016	Calgary Public Library <i>Math Quest, Homework Helpers, Book Discussion Group</i>
Panelist 2019	Department of Anthropology and Archeology Graduate-Undergraduate Mentorship Program <i>The Basics and Essentials of Applying to Graduate School</i>
Mentor 2018 from 2017	Graduate Undergraduate Mentorship Program <i>University of Calgary – Department of Anthropology and Archeology</i>
Judge 2012 and 2011	Regional Science Fair <i>Foothills School Division</i>

Professional Service

Student Volunteer 2024	Symposium in Honor of Rich Kay <i>Duke University Department of Evolutionary Anthropology</i>
Reviewer	Journal of Experimental Biology
Graduate-Faculty Representative 2021 from 2020	Department of Evolutionary Anthropology <i>Duke University</i>
Biological Anthropology Representative 2019 from 2018	Planning Committee for the Department of Anthropology and Archeology Conference <i>University of Calgary</i>
Student Volunteer 2018	American Association of Physical Anthropologists <i>87th Annual Meeting</i>

Teaching and Leadership Experience

[Teaching Statement](#)
[Example Virtual Lessons](#)

Lab Instructor Fall 2024	<u>MD Human Gross Anatomy – Foundations of Patient Care (MD FPC1)</u> Duke University School of Medicine <i>Cross-listed as Graduate Human Gross Anatomy (EVANTH 730) by Duke University - Department of Evolutionary Anthropology</i>
Course Material Development Fall 2024	<u>Statistical Rethinking: Methods and Applications in Evolutionary Anthropology and Biology (EVANTH 585)</u> Duke University – Department of Evolutionary Anthropology <i>Worked Example Vignettes in R</i> <ol style="list-style-type: none">1. <i>Evolutionary Models and Ancestral State Reconstruction</i>2. <i>Spline Fitting and Spline-based Analyses</i>3. <i>Phylogenetic Mixed Models Using Bayes</i>
Mentor Fall 2024 from 2020	<u>Boyer Lab</u> Duke University – Department of Evolutionary Anthropology <i>Direct supervision of 2 undergraduate volunteer research assistants</i>
Substitute Lab Instructor Spring 2021 and Spring 2023	<u>The Human Body (EVANTH 333)</u> Duke University – Department of Evolutionary Anthropology
Instructor of Record Spring 2023	<u>Neuroscience Research Independent Study (NEUROSCI 493-12)</u> Duke University – Department of Psychology and Neuroscience <i>Project Title: “Mapping the brain anatomy of Otomys crassicaudatus and other members of Lorisinae with a concentration on the cerebellum region”</i>
Teaching Assistant Spring 2023 and Spring 2021	<u>Introduction to Evolutionary Anthropology (EVANTH 101)</u> Duke University – Department of Evolutionary Anthropology
Substitute Lab Instructor Spring 2023 and Spring 2021	<u>The Human Body (EVANTH 333)</u> Duke University – Department of Evolutionary Anthropology
Teaching Assistant Fall 2022	<u>Human Osteology (EVANTH 334)</u> Duke University – Department of Evolutionary Anthropology
Instructor of Record Summer 2022	<u>Introduction to Evolutionary Anthropology (EVANTH 101)</u> Duke University – Department of Evolutionary Anthropology
Lab Instructor Spring 2020	<u>The Human Body (EVANTH 333)</u> Duke University – Department of Evolutionary Anthropology <i>Prosection-based upper-level undergraduate gross anatomy course</i>

Lab Instructor Fall 2020 and Fall 2019	<u>Primate Anatomy (EVANTH 235)</u> Duke University – Department of Evolutionary Anthropology
Teaching Assistant Spring 2018	<u>Introduction to Biological Anthropology (ANTH 201)</u> University of Calgary – Department of Anthropology and Archaeology
Lab Instructor Fall 2018, Fall 2017, and Fall 2016	<u>Human Evolution (ANTH 309)</u> University of Calgary – Department of Anthropology and Archaeology
Mentor 2018	<u>Rolian Lab</u> University of Calgary – Department of Comparative Biology and Experimental Medicine <i>Direct supervision of an undergraduate directed study to develop an optimized diffusible iodine contrast enhanced micro-computed tomography</i>
Mentor 2017	<u>Heritage Youth Research Summer</u> University of Calgary – Department of Comparative Biology and Experimental Medicine <i>Direct supervision of high school junior student project to quantify cortical bone and trabecular bone phenotype of mice with a Type II diabetic-like condition</i>
Teaching Assistant Fall 2017	<u>Primate Behavior (ANTH 311)</u> University of Calgary – Department of Anthropology and Archaeology
Interpretive Guide Spring 2016, Fall 2015	<u>RiverWatch Institute of Alberta (Science Program)</u> <i>Leading day long experiment-based (water quality and ecological monitoring) field trips for middle and high school students on an urban section of the Bow River in Calgary, Alberta, Canada</i>

Other Information

Additional Training

Institute for Learning Innovation – On the Spot Feedback (*Workshop*), 2021

Comparative Vertebrate Anatomy (*Audited Course*), 2019

Taylor Institute for Teaching and Learning – Art education and Wellness, 2017

Palaeontological Art and Reconstruction (*Audited Course*), 2017

Transmitting Science: Introduction to Geometric Morphometrics (*Workshop*), 2017

Taylor Institute for Teaching and Learning: Facilitating and Engaging Learners in Effective Discussions (*Workshop*), 2016

Technical Skills

Coding in R language and R-based packages; Illustration and graphic design, including paleo-reconstruction (Illustrator and Photoshop); High-speed video acquisition and motion analysis; Kistler and AMTI force platform systems; High-Resolution μ CT (including diffusible iodine-based contrast enhanced μ CT) data acquisition of modern and fossil material; Amira, Avizo, MeshLab, ImageJ; MorphoJ, and related geometric morphometrics analyses; Web domain maintenance and design.

Certificates and Outdoor Skills

Professional River Outfitters Association of Alberta (PROAA) River Guide Training Certificate – Class 1/2 Paddle Endorsement; Avalanche Skills Training 1; Advanced Climbing – Outdoor and Trad Lead Skills; Standard First Aid CPR C & AED

Academic References

Dr. Douglas Boyer

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doug.boyer@duke.edu

Dr. Susanne Cote

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Dr. Keegan Selig

Assistant Research Professor

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Dr. Angel Zeininger

Assistant Research Professor

Department of Evolutionary Anthropology, Duke University

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