

University of Calgary
Cumming School of Medicine

CURRICULUM VITAE

I. BIOGRAPHICAL DATA

Heather Jamniczky
Department of Cell Biology and Anatomy
Cumming School of Medicine
University of Calgary
3330 Hospital Drive NW
Calgary, Alberta T2N 4N1 Canada
403-210-6647

II. ACADEMIC RECORD

i. Undergraduate

Bachelor of Science (First Class Honours)
2001
Zoology
University of Calgary, Calgary, Canada

ii. Graduate and Postdoctoral

Doctor of Philosophy
2006
Vertebrate Systematic Biology
University of Calgary, Calgary, Canada

Postdoctoral Fellow
2007
Comparative Vertebrate Anatomy Teaching
University of Calgary, Calgary, Canada

Postdoctoral Fellow
2010
Evolutionary Developmental Biology
University of Calgary, Calgary, Canada

III. AWARDS AND DISTINCTIONS

2018

- Calgary Medical Students' Association–Dholes (Class of 2018) Gold Star Award and Jersey Award (Outstanding Teaching), MDCN360

2017

- American Association of Anatomists Basmajian Award (Excellence in gross anatomy teaching *and* biomedical research)
- Calgary Medical Students' Association–Goats (Class of 2018) Gold Star Award (Outstanding Teaching), MDCN360

2016

- University of Calgary Graduate Students' Association Supervisory Excellence Award, Honourable Mention
- University of Calgary Teaching Award, Full-Time Faculty
- Association of Faculties of Medicine of Canada Young Educator Award
- Calgary Medical Students' Association–Humus (Class of 2017) Jersey Award (Outstanding Teaching), Pre-Clerkship Anatomy Curriculum

2015

- University of Calgary Cumming School of Medicine McLeod Award for Distinguished Contributions to Teaching
- Avenue Magazine Calgary Top 40 Under 40
- Calgary Medical Students' Association–Narwhals (Class of 2016) Gold Star Award (Outstanding Teaching), MDCN450
- Calgary Medical Students' Association–Narwhals (Class of 2016) Jersey Award (Outstanding Teaching), MDCN360

2014

- University of Calgary Bachelor of Health Sciences Teaching Award, MDSC521
- Calgary Medical Students' Association–Cows (Class of 2015) Honour Roll (Teaching Excellence)
- University of Calgary Students' Union Teaching Excellence Awards, Honourable Mention, MDCN360

2013

- Calgary Medical Students' Association–Hellbenders (Class of 2014) Honour Roll (Teaching Excellence)

2007

- Alberta Heritage Foundation for Medical Research Postdoctoral Fellowship
- Killam Postdoctoral Fellowship, Dalhousie University (Declined)

2006

- Romer Prize Finalist – Best Student Paper, Society of Vertebrate Paleontology 66th Annual Meeting
- Cameron Award Nominee – Best Doctoral Thesis, Canadian Society of Zoologists
- Hoar Award Finalist – Best Student Paper, Canadian Society of Zoologists' 45th Annual Meeting

2004

- Canada Graduate Scholarship (Doctoral), Natural Sciences and Engineering Research Council of Canada
- Richard Estes Memorial Award, Society of Vertebrate Paleontology
- Systematics Research Fund Award, Linnaean Society/Systematics Association
- Linnaeus Turtle Research Award, Chelonian Research Foundation
- Jake Duerksen Memorial Scholarship, University of Calgary
- Faculty of Graduate Studies Dean's Research Excellence Award, University of Calgary

2003

- Graduate Student Scholarship, Province of Alberta
- Field Experience Bursary, Royal Tyrrell Museum of Palaeontology

2002

- PhD Studentship, Alberta Ingenuity Fund
- Postgraduate Scholarship, Natural Sciences and Engineering Research Council of Canada
- Graduate Student Scholarship, Province of Alberta
- Sylvester-Bradley Award, The Palaeontological Association
- Graduate Students' Association Academic Projects Fund, University of Calgary
- Faculty of Graduate Studies Dean's Research Excellence Award, University of Calgary
- Field Experience Bursary, Royal Tyrrell Museum of Palaeontology

IV. ACADEMIC APPOINTMENTS

2017–present

Associate Professor with tenure
 Department of Cell Biology and Anatomy
 Cumming School of Medicine
 University of Calgary

2011–2017

Assistant Professor
 Department of Cell Biology and Anatomy
 Cumming School of Medicine
 University of Calgary

2010–2011

Senior Research Associate and Adjunct Assistant Professor
 Department of Cell Biology and Anatomy
 Cumming School of Medicine
 University of Calgary

2010

Instructor

Undergraduate Medical Education
 Cumming School of Medicine
 University of Calgary

2009

Sessional Instructor

Department of Biological Sciences
 Faculty of Science
 University of Calgary

V. SUMMARY OF EDUCATIONAL ACTIVITIES: (Teaching dossier available upon request)

i. Undergraduate

a) Courses Currently Taught

- MDSC521 Human Anatomy (Course Designer and Instructor, Laboratory Coordinator)
- MDSC507 Anatomical Illustration (Directed study; Co-taught with Terry Reynoldson, Department of Art)
- MDSC402 Organismal Biology (Contributing Instructor and Laboratory Coordinator)
- MDCN350 Introduction to Medicine/Blood/Gastrointestinal System (Contributing Instructor, Preceptor and Laboratory Coordinator)
- MDCN360 Musculoskeletal System/Dermatology (Instructor, Preceptor and Laboratory Coordinator)
- MDCN370 Cardiovascular/Respiratory System (Instructor, Preceptor and Laboratory Coordinator)
- MDCN410 Renal, Endocrine and Obesity (Instructor, Preceptor and Laboratory Coordinator)
- MDCN450 Neurosciences, Ageing and Special Senses (Contributing Instructor, Preceptor and Laboratory Coordinator)
- MDCN460 Child and Maternal Health (Contributing Instructor, Preceptor and Laboratory Coordinator)
- MDCN440 Applied Evidence Based Medicine (Preceptor)

b) Courses Previously Taught

- ZOOL377 Comparative Anatomy of the Vertebrates (Instructor)

c)Supervision (* indicates co-supervisor role)

2017–2018

Department of Cell Biology & Anatomy, University of Calgary

Summer Undergraduate Research: Bone mineral density and water quality in stickleback armour (H Thai)

Department of Cell Biology & Anatomy, University of Calgary

Summer Undergraduate Research: Bone mineral density and EDA genotypes in stickleback armour (A Kozak)

2015–2016

Department of Cell Biology & Anatomy, University of Calgary

Summer Undergraduate Research: Shape variation and bone mineral density in stickleback armour: Part 2 (A Le)

2014–2015

Department of Cell Biology & Anatomy, University of Calgary

Summer Undergraduate Research: Shape variation and bone mineral density in stickleback armour (A Le)

Department of Cell Biology & Anatomy, University of Calgary

Summer Undergraduate Research: Neural correlates of 2D learning (D Kim)

2013–2014

Department of Cell Biology & Anatomy, University of Calgary

Summer Undergraduate Research: Shape variation and trophic morphology in stickleback (A Pistore)

Department of Cell Biology & Anatomy, University of Calgary

MDSC508 Honours Thesis Research Project: Stickleback brain and face covariation (A Pistore)

Department of Biological Sciences, University of Calgary

ZOOL507* Undergraduate Research Project: Jordan's rule and the evolution of stickleback vertebrae (E Petrovich)

Department of Computer Science, University of Calgary

MDSC507* Undergraduate Research Project: Composing and testing interactive 3D learning modules for medical education (D Yuen)

Undergraduate Medical Education, University of Calgary

Undergraduate Research Assistantship: LINDSAY Virtual Human Project (S Hall)

2012–2013

Department of Cell Biology & Anatomy, University of Calgary

Summer Undergraduate Research: Shape variation and QTL analysis in stickleback heads (S Campeau)

Department of Cell Biology & Anatomy, University of Calgary
Summer Undergraduate Research: Morphometric comparison of two populations of Alaskan stickleback (R Sharma)

Department of Biological Sciences, University of Calgary
ZOOL507* Shape variation and QTL analysis in stickleback girdles (R Chaput)

Department of Biological Sciences, University of Calgary
ZOOL507* Undergraduate Research Project: Morphometric comparison of two populations of Alaskan stickleback (R Sharma)

Undergraduate Medical Education, University of Calgary
Summer Undergraduate Research: LINDSAY Virtual Human Project (S Hall)

2011–2012

Department of Biological Sciences, University of Calgary
ZOOL507* Undergraduate Research Project: Shape variation and QTL analysis in stickleback heads (J Skelton)

Department of Cell Biology and Anatomy, University of Calgary
MDSC508 Honours Thesis Research Project: Investigation of phenotypic variation in the development of the human face in Tanzania (T Barry)

Department of Computer Science, University of Calgary
CPSC503* Undergraduate Research Project: An agent-based model of the sodium-potassium pump (D Yuen)

Department of Computer Science, University of Calgary
CPSC503* Undergraduate Research Project: Multi-agent based nephron simulation (C Qian)

Undergraduate Medical Education, University of Calgary
Summer Undergraduate Research: Musculoskeletal Anatomy Teaching Tools, LINDSAY Virtual Human Project (F Raghavji, J Pow)

Department of Cell Biology and Anatomy, University of Calgary
Summer Undergraduate Research: Morphometrics of normal human facial variation (T Barry, J Larson, M Wright, M Finnsdottir)

2010–2011

Undergraduate Medical Education, University of Calgary
AEBM440 Applied Evidence-Based Medicine: Applications of the LINDSAY Virtual Human Project: A Pilot Study Within Clinical Curricula Based Medical Education at the University of Calgary (J Maxwell)

Department of Cell Biology and Anatomy, University of Calgary
MDSC508 Honours Thesis Research Project: Development of the primary palatal epithelial seam and morphogenetic regulation of facial length (J Larson)

2009–2010

Department of Cell Biology and Anatomy, University of Calgary
 Summer Undergraduate Research: The role of apoptosis inhibition and Msx1 signaling in the developing chick face (J Larson)

Department of Cell Biology and Anatomy, University of Calgary
 MDSC508 Honours Thesis Research Project: A three-dimensional geometric morphometrics investigation of cleft lip etiology in a mouse model (C Trpkov)

Department of Cell Biology and Anatomy, University of Calgary
 Summer Undergraduate Research: Imaging and measurement of cartilage using microCT (A Zuba)

2008–2009

Department of Cell Biology and Anatomy, University of Calgary
 MDSC402 Research Project: Morphometrics and cell proliferation in *clf1* mutant mice (J Andrews, R Bell, C Trpkov)

Department of Cell Biology and Anatomy, University of Calgary
 Summer Undergraduate Research: Morphometrics of facial shape in mice with cleft palate (C Trpkov)

2006

Department of Biological Sciences, University of Calgary
 ZOOL507* Vertebrate Anatomy Laboratory Pedagogy

ii. Graduate

a) Courses Currently Taught

- MDSC755 Directed Studies: Biomechanics and morphology (Co-Instructor)
- MDSC755/BIOL703 Directed Studies: Morphometrics (Instructor)
- MDSC755 Directed Studies: Guided Dissection (Instructor)

b) Courses Previously Taught

- MDSC703 Human Anatomy (Co-Instructor)
- MDSC755 Directed Studies: Anatomical Photogrammetry (Instructor)
- BIOL703 Special Problems in Biology (Instructor)
- BMEN609 Human Anatomy and Physiology (Contributing Instructor)

c) Current Supervision

i. Supervised/Co-supervised

Department of Medical Sciences, University of Calgary
 PhD Thesis, E Frampton (Primary Supervisor; Begins Sept 2018, Completion Aug 2022)

Department of Medical Sciences, University of Calgary
 PhD Thesis, K Duclos (Primary Supervisor; Completion Aug 2020)

Department of Biological Sciences, University of Calgary
PhD Thesis, T Barry (Co-supervisor; Completion Aug 2018)

Departments of Medical Sciences and Classics and Religion, University of
Calgary
PhD Thesis, J McLeod (Co-supervisor; Completion May 2018)

II. Supervisory Committee

Department of Biological Sciences, University of Calgary
MSc Thesis, K Lennie (Supervisory Committee)

Department of Medical Sciences, University of Calgary
PhD Thesis, S Helmi (Supervisory Committee)

d) Past Supervision and Examination

I. Supervised/Co-supervised

Department of Community Health Sciences, University of Calgary
PhD Thesis, S Anderson (Co-supervisor)

Department of Medical Sciences/Leaders in Medicine, University of Calgary
MSc Thesis, A Pistore (Primary supervisor)

Department of Medical Sciences, University of Calgary
PhD Thesis, J Larson (Co-supervisor)

Department of Biological Sciences, University of Calgary
MSc Thesis, C Zurowski (Co-supervisor)

Department of Medical Sciences, Faculty of Medicine, University of Calgary
PhD Thesis, T Parsons (Co-supervisor)

II. Supervisory/Examination Committee

Department of Biological Sciences, University of Calgary
MSc Thesis, H Kienzle (Supervisory Committee)

Department of Biological Sciences, University of Calgary
MSc Thesis, R Nagesan (Internal Examiner, Defense)

Department of Biological Sciences, University of Calgary
PhD Thesis, C Venables (Internal Examiner, Defense)

Department of Comparative Biology and Experimental Medicine, University
of Calgary
MSc Thesis, M Szostakiwskyj (Supervisory Committee)

Department of Biological Sciences, University of Calgary
MSC Thesis, A Alhawsawi (Internal Examiner, Defense)

Department of Biological Sciences, University of Calgary
PhD Thesis, A Tinius (Internal Examiner, Defense)

Department of Medical Sciences, University of Calgary
PhD Thesis, K Scullion (Internal Examiner, Defense)

Department of Biological Sciences, University of Calgary
MSc Thesis, S Vanderzwan (Supervisory Committee)

Department of Comparative Biology and Experimental Medicine, University
of Calgary
MSc Thesis, J Pardo (External Examiner, Defense)

Department of Biological Sciences, University of Calgary
PhD Thesis, X Yang (External Examiner, Candidacy)

Department of Biological Sciences, University of Calgary
PhD Thesis, C Barron-Ortiz (External Examiner, Candidacy)

Department of Biological Sciences, University of Calgary
PhD Thesis, E Bowles (External Examiner, Candidacy)

Department of Comparative Biology and Experimental Medicine, University
of Calgary
MSc Thesis, S Wilson (Supervisory Committee)

Department of Computer Science, University of Calgary
MSc Thesis, S Paskaradevan (External Examiner, Defense)

iii. Postgraduate

2017-2018

Contributing Instructor
Department of Neurosurgery, University of Calgary
Residents' Anatomy Training Program

2012–2015

Contributing Instructor
Department of Cell Biology and Anatomy, University of Calgary
Pathology Residents' Anatomy Training Program

iv. Faculty

2015–present

Supervisor and Mentor
Academic Exchange Program, National Autonomous University of Nicaragua
Undergraduate Medical Anatomy Training

2014

Participant
Asian Academic Partnership, Vientiane, Laos
Using LINDSAY Atlas to teach anatomy

2013–2016

Contributing Instructor
Office of Faculty Development, University of Calgary
Teaching Scholars in Medicine Program

V.Other

2013–2015

Contributing Instructor
Faculty of Medicine, University of Calgary
Let's Talk Science – Operation Minerva

2013–2015

Co-Organizer
Faculty of Medicine, University of Calgary
Anatomical Sculpture Program

2011–present

Collaborator (instructor: Ms. Stephanie Bennett)
Cochrane High School, Cochrane, AB
Biology 20 and 30, Human Systems

Contributing Instructor
Department of Cell Biology and Anatomy, University of Calgary
Gross Anatomy Lab High School Tours

2012

Contributing Instructor and Curriculum Designer
Geometric Morphometrics Workshop, University of Calgary

2008–2011

Contributing Instructor
Teaching and Learning Centre, University of Calgary
Instructional Skills Workshop

VI. ADMINISTRATIVE RESPONSIBILITIES

i. Departmental, Institutional, and Program

2017–present

Member, User Committee, Bamfield Marine Sciences Centre

2017

Member, Anatomy Search and Selection Committee, Department of Cell Biology & Anatomy

2017–present

Member, Wood Forum Advisory Committee, McCaig Institute for Bone and Joint Health

2016–present

Member, Training, Education and Mentorship Committee, McCaig Institute for Bone and Joint Health

2016

Member, Art History Search and Selection Committee, Department of Art

2014–present

Member, Pre-Clerkship Committee, Undergraduate Medical Education

Member, Course I Committee, Undergraduate Medical Education

Member, Course II Committee, Undergraduate Medical Education

Member, Course III Committee, Undergraduate Medical Education

Member, Course IV Committee, Undergraduate Medical Education

Member, Course V Committee, Undergraduate Medical Education

Member, Course VI Committee, Undergraduate Medical Education

2014

Member, Headship Search and Selection Committee, Department of Cell Biology and Anatomy

2013–present

Member, PURE Application Review Committee, Bachelor of Health Sciences

2013–present

Member, Supplementary Application Review Committee, Bachelor of Health Sciences

2011–2013

Chair, Safety Improvement Team

McCaig Institute for Bone and Joint Health, Department of Cell Biology and Anatomy

ii. Faculty

2017–present

Academic Director, Advanced Technologies and Surgical Skills Laboratory (ATSSL) and Special Procedures Laboratory/Body Donation Program

2017–present

Member, ATSSL Executive Steering Committee

2017–present

Member, ATSSL Education Sub-committee

2017–present

Member, Center for Advanced Technologies Committee

2015–2016

Faculty participant, Cumming School of Medicine Accreditation Process

2014–2016

Member, ATSSL and Special Procedures Labs Operations Committee

2012–2014

Member, ATSSL and Special Procedures Labs Working Group.

iii. University

2017–present

Cumming School of Medicine Representative, Faculty of Graduate Studies Scholarship Committee

2016–present

Member, SUPPORT: Research Infrastructure Programs Committee

2016–present

Member, Teaching Academy Leadership Committee, Taylor Institute for Teaching and Learning

2013–2014

Member, Academic Advisory Group, Taylor Institute for Teaching and Learning

VII. PROFESSIONAL ACTIVITIES

- i. Membership in professional and learned societies
 - Canadian Society of Zoologists
 - Society for Integrative and Comparative Biology
 - Pan-American Society for Evolutionary Developmental Biology
 - American Association of Anatomists

- ii. Professional service
 - Scientific Committee and Local Organizing Committee Member, 2017 Annual Meeting of the Pan-American Society for Evolutionary Developmental Biology

 - Executive Committee, Division of Comparative Morphology and Development, Canadian Society of Zoologists (Vice-Chair 2016-2017, Chair 2017-2018, Secretary General 2018-2023)

 - Judge, Battle Student Poster Award, Hoar Student Platform Award, Hall Student Platform Award, Boutilier Young Investigator Award, Canadian Society of Zoologists Annual Meeting

 - Faculty facilitator, Student Success Workshop, Canadian Society of Zoologists Annual Meeting

 - Editorial Boards: FACETS; Anatomical Sciences Education

 - Ad hoc* review
 American Museum Novitates, South American Journal of Earth Sciences, Biology Letters, Biological Reviews, Evolutionary Biology, Journal of Vertebrate Paleontology, Journal of Morphology, Journal of Anatomy, Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, Nature Communications, Functional Ecology, Open Fish Science Journal, PLoS ONE, Proceedings B

 - Book proposal review
 Elsevier Research Reference Content

 - Grant review
 National Science Foundation (USA), Natural Sciences and Engineering Research Council of Canada

VIII. RESEARCH SUPPORT

2015–2018

Taylor Institute for Teaching and Learning: \$29,881.60

Use Your Head! Quantifying Effectiveness of Just-in-Time Teaching in the Anatomical Sciences

(Principal Applicant; Co-Applicants K Hecker UCalgary, O Krigolson UVictoria)

2014–2016

Data and Technology in Veterinary Medicine, University of Calgary: \$15,000

Measuring the neurophysiological correlates of spatial, procedural, and decision-making learning processes

(Co-Applicant; Principal Applicant: K Hecker UCalgary, co-applicant O Krigolson UVictoria)

2014

Canada Foundation for Innovation Leaders' Opportunity Fund: \$590,768

Multi-modal high-throughput 3D biomedical imaging laboratory

(Principal Applicant; Co-Applicants C Rolian, B Hallgrimsson UCalgary)

2014–2015

University Research Grants Committee: \$15,000

Quantification of neural activity while discriminating between two- and three-dimensional anatomical objects: implications for spatial learning within health professional education

(Principal Applicant; Co-Applicants K Hecker UCalgary, O Krigolson UVictoria)

2012–2018

Natural Sciences and Engineering Research Council of Canada Discovery Grant: \$150,000

The role of epigenetics in the generation of evolutionarily important variation (Principal Investigator)

2012–2014

University of Calgary Startup Funds: \$50,000

The role of epigenetics in the generation of evolutionarily important variation (Principal Investigator)

2007–2010

Alberta Heritage Foundation for Medical Research Postdoctoral Fellowship: \$105,000

University of Calgary

Developmental regulation and evolution of circulatory variation (Principal Investigator)

2007–2009

Killam Postdoctoral Fellowship: \$70,000.00

Dalhousie University

Developmental regulation and evolution of circulatory variation (Principal Investigator; Declined)

IX. INVITED ADDRESSES

- Jamniczky HA.** 2018. Considering the WHOLE phenotype: emerging approaches to 3D quantitative morphology in eco-evo-devo. Invited Lecture, University of Massachusetts, Amherst, 2 Feb 2018.
- Jamniczky HA.** 2016. The devil is in the details: quantitative morphology reveals new insights into evolutionary history of threespine stickleback. Invited Lecture, Bamfield Marine Sciences Centre, British Columbia, 9 June 2016.
- Jamniczky HA.** 2015. Considering the WHOLE phenotype: emerging approaches to 3D quantitative morphology in eco-evo-devo. Invited Lecture, Bamfield Marine Sciences Centre, British Columbia, 20 June 2015.
- Jamniczky HA.** 2015. Geometric Morphometrics: An Introduction. Invited Workshop, Bamfield Marine Sciences Centre, 20 June 2015.
- Jamniczky HA.** 2015. Considering the WHOLE phenotype: emerging approaches to 3D quantitative morphology in eco-evo-devo. Student Satellite Symposium Keynote Address, Canadian Society of Zoologists' Annual Meeting, 27 May 2015.
- Jamniczky HA, Rogers SM.** 2015. Integrating approaches to biomechanics: developmental phenogenomics of stickleback evolution. Invited symposium presentation, Society for Integrative and Comparative Biology, West Palm Beach, FL, 7 January 2015.
- Miettunen P, **Jamniczky HA.** 2014. Human anatomy through sculpture. Second Annual Humanities in Health Care Symposium, University of Calgary, Calgary, 6-7 March 2014.
- Rogers, SM, **Jamniczky HA.** 2013. Adaptive evolution in stickleback: the gene proposes and the environment disposes. Bamfield Marine Sciences Centre, British Columbia, 12 June 2013.
- Jamniczky HA.** 2013. Opening the black box: epigenetics and phenotypic variation. University of Oregon, 28 May 2013.
- Jamniczky HA.** 2013. Being animal: the search for animal consciousness. Apeiron Society for the Practice of Philosophy, Calgary Alberta, 27 March 2013
- Jamniczky HA.** 2011. Quantification of irregular morphology in three dimensions. Florida State University, 9 December 2011.
- Jamniczky HA.** 2011. Quantifying unusual biological shapes in three dimensions. Oral presentation at the Statistics and Applied Mathematical Sciences Institute Analysis of Object Data Meets Evolutionary Biology Workshop, Raleigh, NC, 30 April – 2 May 2011
- Jamniczky HA.** 2011. Give and take: characterizing covariation between tissue types. University of Calgary, Graduate Student Morphometrics Workshop, 17 February 2011
- Jamniczky HA.** 2009. Lesson planning. University of Calgary, CIHR-SMRT training program webinar, 7 October 2009

Jamniczky HA. 2007. The ape in the mirror: human and animal selves. University of Calgary, ENGL517 “The Question of the Animal”, 11 October 2007

Jamniczky HA. 2007. The ape in the mirror: human and animal selves. Apeiron Society for the Practice of Philosophy, Calgary Alberta, 13 March 2007

Jamniczky HA. 2004. Biological pluralism and homology. University of Calgary, History and Philosophy of Science Research Group Seminar Series.

X.PUBLICATIONS/PRESENTATIONS

h-Index = 14; 801 citations [<https://scholar.google.ca/citations?user=tZKZ9XMAAAAJ&hl=en>]

Underline = trainee

i. Peer-reviewed manuscripts

56. Pistore AE, Barry TN, Rogers SM, **Jamniczky HA**. in prep. Ontogeny of threespine stickleback (*Gasterosteus aculeatus*). Evolution and Development.
54. Vanderzwan SL, Bowles E, **Jamniczky HA**, Vamosi SM, Rogers SM. in prep. Ecology of adaptive peak shift in threespine stickleback (*Gasterosteus aculeatus*).
53. Nagesan R, Szostakiwskyj M, **Jamniczky HA**, Anderson JS. In prep. Creating three-dimensional models for medical education using digital photogrammetry. Annals of Anatomy.
52. Barry TN, Rogers SM, **Jamniczky HA**. in prep. Three-dimensional quantitative analysis reveals novel, site-specific phenotypic variation within a marine threespine stickleback (*Gasterosteus aculeatus*) population in Madeira Park, British Columbia, Canada. Proceedings of the Royal Society B.
51. **Jamniczky HA**, Le A, Barry TN, Rogers SM. in press. Freshwater influence is associated with differences in bone mineral density and armour configuration in threespine stickleback (*Gasterosteus aculeatus*). FACETS.
50. Anderson SJ, Hecker KA, Krigolson O, **Jamniczky HA**. 2018. A reinforcement-based learning paradigm increases anatomical learning and retention - a neuroeducation study. Frontiers in Human Neurosciences 12:38. doi: 10.3389/fnhum.2018.00038
49. Morris MRJ, Bowles E, Allen B, **Jamniczky HA**, Rogers SM. In review. Contemporary ancestor? Standing genetic variation, population genetic structure, and natural selection in Pacific marine threespine stickleback and its consequences for adaptive divergence. BMC Evolutionary Biology.
48. Tinius A, Russell AP, **Jamniczky HA**, Anderson JS. Accepted. What’s bred in the bone: ecomorphological associations of pelvic girdle form in Greater Antillean *Anolis* lizards. Journal of Morphology.

47. Zurowski C, **Jamniczky HA**, Graf D, Theodor J. 2018. Deletion/loss of BMP7 changes tooth morphology and function in *Mus musculus*: implications for dental evolution in mammals. Royal Society Open Science 5:170761.
46. Larson JL, Manyama MF, Cole JB, Liberton DK, Ferrara T, Riccardi S, Kimwaga EA, Mathayo J, Gonzalez PN, Spitzmacher JA, Percival CJ, Rolian C, **Jamniczky HA**, Weinberg S, Roseman CC, Klein O, Lukowiak K, Spritz R, Hallgrimsson B. 2017. Body size and allometric variation in facial shape in children. American Journal of Physical Anthropology. DOI 10.1002/ajpa.23356
45. Higham TE, **Jamniczky HA**, Jagnandan K, Smith SJ, Barry TN, Rogers SM. 2017. Comparative dynamics of suction feeding in marine and freshwater three-spined stickleback, *Gasterosteus aculeatus*: kinematics and geometric morphometrics. Biological Journal of the Linnean Society 122(2): 400-410
44. Powell GL, Russell AP, **Jamniczky HA**, Hallgrimsson B. 2017. Ontogeny and modularity in the expression of dermatocranial shape in the Greater Short-Horned Lizard *Phrynosoma hernandesi* (Reptilia: Squamata: Phrynosomatidae). Evolutionary Biology 44:240-260.
43. Morris MRJ, Petrovich E, Bowles E, **Jamniczky HA**, Rogers SM. 2017. Exploring Jordan's Rule in coastal threespine stickleback *Gasterosteus aculeatus*. Journal of Fish Biology 91(2): 645-663
42. Pavličev M, Mitteroecker P, Gonzalez PN, Rolian C, **Jamniczky HA**, Villena, FPM, Marcucio R, Spritz R, Hallgrimsson B. 2016. Development shapes a consistent inbreeding effect in mouse crania of different line crosses. Journal of Experimental Zoology 326: 474-488.
41. Higham TE, Rogers SM, **Jamniczky HA**, Reznick DN, Lauder GV, Stewart WJ, Langerhans RB, Martin CH. 2016. Speciation through the lens of biomechanics: locomotion, prey capture and reproductive isolation. Proceedings of the Royal Society B 283: 20161294.
40. **Jamniczky HA**, Cotton, D, Paget M, Ramji Q, Lenz R, McLaughlin K, Coderre S, Ma IWY. 2016. Cognitive load imposed by ultrasound-facilitated teaching does not adversely affect gross anatomy learning outcomes. Anatomical Sciences Education 10(2): 144-151.
39. Santos R, Kawauchi S, Jacobs RE, Lopez-Burks ME, Choi H, Wikenheiser J, Hallgrimsson B, **Jamniczky HA**, Lander AD, Calof AL. 2016. Conditional creation and rescue of *Nipbl*-deficiency in mice reveals multiple determinants of risk for congenital heart defects. PLoS Biology 14(9): e2000197.
38. Pistore A, Barry TN, Bowles E, Sharma R, Vanderzwan S, Rogers SM, **Jamniczky HA**. 2016. Characterizing adaptive divergence in four populations of threespine stickleback (*Gasterosteus aculeatus*) in Katmai National Park and Preserve, Alaska. Canadian Journal of Zoology 94: 463-472.
37. Anderson SJ, Krigolson OE, **Jamniczky HA**, Hecker KG. 2016. Learning anatomical structures: a reinforcement based learning approach. Medical Science Educator 26: 123-128.

36. Xu Q, Green RM, **Jamniczky HA**, Marcucio RS, Hallgrímsson B, Mio W. 2015. Correlations between the morphology of sonic hedgehog expression domains and embryonic craniofacial shape. *Evolutionary Biology* 42: 379-386.
35. **Jamniczky HA**, Barry TN, Rogers SM. 2015. Eco-evo-devo in the study of adaptive divergence: examples from Threespine Stickleback (*Gasterosteus aculeatus*). *Integrative and Comparative Biology* 55: 166-178.
34. Hu D, Young NM, Xu Q, **Jamniczky HA**, Green RM, Mio W, Marcucio RS, Hallgrímsson B. 2015. Signals from the brain induce variation in avian facial shape. *Developmental Dynamics* 244: 1133-1143
33. **Jamniczky HA**, Campeau S, Barry TN, Skelton J, Rogers SM. 2015. Three-dimensional morphometrics for quantitative trait locus analysis: tackling complex questions with complex phenotypes. *Evolutionary Biology* 42: 260-271.
32. Parsons TE, Downey CM, Jirik FR, Hallgrímsson B, **Jamniczky HA**. 2015. Mind the gap: genetic manipulation of basicranial growth within synchondroses modulates calvarial and facial shape in mice through epigenetic interactions. *PLoS ONE* 10(2): e0118355.
31. Andrews SHJ, Rattner JB, **Jamniczky HA**, Shrive NG, Adesida AB. 2015. The structural and compositional transition of the meniscal roots into the fibrocartilage of the menisci. *Journal of Anatomy* 226: 169-174.
30. Green RM, Feng W, Fish J, Marcucio RS, **Jamniczky HA**, Hallgrímsson B, Williams TJ. 2015. Tfp2a-dependent changes in facial morphology result in clefting that can be ameliorated by a reduction in Fgf8 gene dosage. *Disease Models and Mechanisms* 8:31-43.
29. Schutz H, **Jamniczky HA**, Hallgrímsson B, Garland Jr T. 2014. Shape-shift: semicircular canal morphology responds to selective breeding for increased locomotor activity. *Evolution* 68: 3184-3198.
28. **Jamniczky HA**, McLaughlin K, Kaminska, ME, Somayaji R, Wright B, Ma IWY. 2014. Cognitive load imposed by knobology may adversely affect learners' perception of utility in using ultrasonography to learn physical examination skills, but not anatomy. *Anatomical Sciences Education* 8: 197-204.
27. Rogers SM, **Jamniczky HA**. 2014. The shape of things to come in the study of the origin of species. *Molecular Ecology* 23: 1650-1652.
26. **Jamniczky HA**, Harper EE, Garner R, Cresko WA, Wainwright PC, Hallgrímsson B, Kimmel CB. 2014. Integration structure facilitates evolutionary and functional change in the opercular four-bar apparatus of the threespine stickleback. *Biological Journal of the Linnean Society* 111: 375-390.
25. Andrews SHJ, Ronsky JL, Rattner JB, Shrive NG, **Jamniczky HA**. 2013. An evaluation of meniscal collagenous structure using optical projection tomography. *BMC Medical Imaging* 13:21.

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iv. Other conference presentations

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- Duclos KC, Cloutier R, Angers B, **Jamniczky HA**. 2017. Altered covariance structure reveals relaxation of developmental constraints in an asexual hybrid vertebrate. Oral presentation at the Canadian Society of Zoologists Annual Meeting, Winnipeg MB, 15-19 May 2017.
- Barry TN, Pistore A, **Jamniczky HA**, Rogers SM. 2017. Lab v. wild: phenotypic covariation in the threespine stickleback. Oral presentation at the Canadian Society for Ecology and Evolution Annual Meeting, Victoria BC, 8-11 May 2017.
- Anderson SJ, **Jamniczky HA**, Krigolson OE, Hecker KG. 2016. Quantitative measurement of learning using electroencephalography (EEG) in anatomy education. Poster presentation at the EARLI SIG22 Neuroscience and Education Meeting, Amsterdam, Netherlands, 23 – 25 June 2016.
- Powell GL, Russell AP, **Jamniczky HA**, Hallgrímsson B. 2016. Ontogenetic integration and modularity in the dermatocranium of the Greater Short-horned lizard, *Phrynosoma hernandesi*. Poster presentation at the 11th International Congress on Vertebrate Morphology, Washington DC, June 29 – July 3 2016.
- Schutz H, **Jamniczky HA**, Asplund CL, Braaten-Fierros K, Higginbotham C, Donovan ER, Garland Jr, T. 2016. Morphological responses of the scapula and os coxae to selection for high voluntary locomotor activity. Oral presentation at the 11th International Congress on Vertebrate Morphology, Washington DC, June 29 – July 3 2016.
- Anderson SJ, Hecker KG, Krigolson OE, **Jamniczky HA**. Anatomy 2.0: Just-in-time teaching modules for the digital age. Oral presentation at the University of Calgary Conference on Postsecondary Learning and Teaching, Calgary AB, May 10-11, 2016.
- Anderson SJ, **Jamniczky HA**, Krigolson O, Hecker KG. 2016. Use your head! Quantifying the effectiveness of Just-in-Time Teaching in the anatomical sciences. Oral presentation at the Health and Medical Education Scholarship Symposium, Calgary, AB, 17 February 2016.
- Anderson SJ, **Jamniczky HA**, Krigolson OE, Hecker KG. 2015. Understanding 2D anatomy learning: a reinforcement-based approach. Poster presentation at the Association for Medical Education in Europe Annual Meeting, Glasgow, Scotland, 5 – 10 September 2015.
- Anderson SJ, Hecker KG, Krigolson O, **Jamniczky HA**. 2015. A neuroeducational approach to understanding 2D anatomy learning- task optimization for measurement of neural processes. Poster presentation at the Health and Medical Education Scholarship Symposium, Calgary, AB, 17 February 2015.
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- Jamniczky HA**, McLaughlin K, Taylor M, Sharp L, Martin K, Paget M, Raman M, Somayaji R, Wright B, Ma I. 2014. Cognitive load imposed by knobology may adversely affect learners' ability to learn physical examination skills using ultrasonography. Oral presentation at the 2014 Canadian Conference on Medical Education, Ottawa ON, 26 - 30 April 2014
- Green R, Feng W, Fish J, Marcucio R, **Jamniczky HA**, Hallgrímsson B, Williams T. 2014. Morphometric analysis of facial shape changes that enable decreased Fgf8 gene dosage to reduce the penetrance of bilateral cleft lip/palate caused by AP-2 α mutation. Presentation at the Gordon Craniofacial Research Conference.
- Smith F, Young NM, Percival C, Green R, Fish JL, **Jamniczky HA**, Marcucio RS, Hallgrímsson B. 2014. Comparative analysis of craniofacial morphogenesis in mouse mutants. Oral presentation at the American Association of Anthropologists Annual Meeting, Calgary, AB, 9 - 12 April 2014
- Powell GL, Russell AP, **Jamniczky HA**, Hallgrímsson B. 2013. The nature of shape variation in the skull and horns of the Tapaja clade of horned lizards (Phrynosoma), based upon cranial geometric morphometrics of the Greater Short-horned lizard (*P. hernandesii*). Oral presentation at the Tenth International Congress of Vertebrate Morphology, Barcelona, Spain, 8 – 12 July 2013
- Jamniczky HA**, Paget M, Mitha A, Bhuiyan S, Wintersinger J, Novakowski S, Jacob C, Wright B. 2013. Mobile anatomy lab: 1:1 cadaver eBooks in undergraduate medical education. Oral presentation at the 2013 Canadian Conference on Medical Education, Quebec City, PQ, 20 - 23 April 2013
- Powell GL, Russell AP, **Jamniczky HA**, Hallgrímsson B. 2012. Ontogenetic and sexual shape variation in the skull and horns of the Greater Short-horned lizard, *Phrynosoma hernandesii*. Oral presentation at the Seventh World Congress of Herpetology, Vancouver, BC, 8 - 14 August 2012
- Hallgrímsson B, Young NM, **Jamniczky HA**, Marcucio RS. 2012. The middle-out approach and evolutionary inference from studies of model organisms. Symposium presentation (by first author) at the American Association of Physical Anthropologists Annual Meeting, Portland, OR, 11 – 14 April 2012
- Kimmel CB, **Jamniczky HA**, Harper EE, Garner R, Hallgrímsson B. 2012. Modular partitioning of the stickleback skull. Poster presentation at the Gordon Research Conference on Cranial Morphogenesis and Tissue Regeneration, Ventura, CA, 18 - 23 March 2012
- Hu D, Lainoff A, **Jamniczky HA**, Xu Q, Mio W, Young N, Hallgrímsson B, Marcucio RS. 2012. Relationship between the dynamic induction sequence of Shh and cleft lip and palate. Poster presentation at the Gordon Research Conference on Cranial Morphogenesis and Tissue Regeneration, Ventura, CA, 18 - 23 March 2012
- Hallgrímsson B**, Parsons TE, Schmidt EJ, Boughner JC, Young NM, Martinez N, Jamniczky HA, Trpkov C, Marcucio RS. 2010. Imaging and brain face interactions in vertebrate development and evolution. Oral presentation at the 38th Annual Meeting of the Canadian Association for Physical Anthropology, Saskatoon, SK

Jamniczky HA, Hallgrímsson B. 2008. Mechanics of morphological evolution: altered covariation structure reveals pathways to diversification in rodent crania. Oral presentation at the Canadian Society of Zoologists' 47th Annual Meeting, Halifax, NS, 19 – 23 May 2008

Jamniczky HA. 2006. Turtle carotid circulation: a character analysis case study. Oral presentation at the Prairie Universities' Biological Symposium, Calgary, AB, February 2006

Jamniczky HA, Brinkman DB, Russell AP. 2005. Character analysis and the turtle carotid circulation. Poster presentation at the Dinosaur Park Symposium, Royal Tyrrell Museum, Drumheller, AB, 24 – 25 September 2005

Jamniczky HA, Russell AP. 2005. Turtles, tomography, and tree topology: an integrative approach to primary homology assessment in the Testudine braincase. Oral presentation at the Fifth World Congress of Herpetology, Stellenbosch, South Africa, 19-24 June 2005

Jamniczky HA. 2004. Biological pluralism and homology. Oral presentation at the Philosophy of Science Association Biennial Meeting, Austin, TX, 18-21 November 2004

Jamniczky HA, Russell AP, Brinkman DB. 2003. Phylogenetic implications of turtle cranial circulation: an integrative approach. Oral presentation (by third author) at the Symposium on Turtle Origins, Evolution and Systematics, St Petersburg, Russia, 18 – 20 Aug 2003

Jamniczky HA, Russell AP. 2002. Testudine systematics: the utility of cranial arterial canals and foramina in the resolution of turtle phylogeny. Oral presentation at the Prairie Universities' Biological Symposium, Calgary, AB, February 2002

v. Non-peer reviewed manuscripts

Jamniczky HA, Fitch WD, Russell AP. 2007. Comparative Anatomy of the Vertebrates: A Workbook. University of Calgary, 162 pp

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