

Lauren N. Butaric, Ph.D.

Assistant Professor, Department of Anatomy
Human Skeletal Biology Lab
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RESEARCH INTERESTS

Upper respiratory physiology, w/ emphasis on nasal cavity and paranasal sinus morphology; Population variation; Using imaging modalities for 2D/3D analyses; Modern human biology; craniofacial ontogeny and evolution; high altitude and climatic adaptation

EDUCATION

- Ph.D., Anthropology.** Texas A&M University, College Station, Texas May 2013
Dissertation: "Biogeographic patterning of the modern human maxillary sinus: architectural byproduct or climatic adaptation?"
Committee: S Athreya, DL Carlson, DS Carlson, L Wright
- M.A., Anthropology.** Florida Atlantic University, Boca Raton, Florida Aug 2006
Thesis: "Correlations between maxillary sinus and nasal cavity volume: an exploratory study into environmental influences on the human maxillary sinus"
Committee: D Broadfield, R Blanks, R McCarthy
- B.A., Anthropology.** University of Central Florida, Orlando, Florida Dec 2003

ACADEMIC APPOINTMENTS

- Assistant Professor,** Department of Anatomy July 2014 – present
Des Moines University, Des Moines, IA
- Lecturer,** Department of Pathology and Anatomical Sciences July 2013 – June 2014
University of Missouri, School of Medicine, Columbia, MO

PEER-REVIEWED PUBLICATIONS (*denotes student)

In Prep. Kim S*, Maddux SD, **Butaric LN**. Demographical and sex-based differences in maxillary sinus anatomy: implications on health disparities in sinusitis. To be submitted to *Journal of Anatomy* (~November 2019).

In Prep. **Butaric LN**, *Jones G (DO'21). Reinvestigating population frequencies for frontal sinus aplasia. To be submitted to *American Journal of Physical Anthropology* (~December 2019).

In Prep. Maddux SD, **Butaric LN**, Franciscus RG. Nasal projection: general climatic adaptation or European specialization? To be submitted to *American Journal of Physical Anthropology* (~November 2019).

In Prep. **Butaric LN**, *Ruettinger CJ. Application of 3D printed models in a combined ultrasound and anatomical curriculum: A retrospective study in physician assistant's education.

Revisions submitted. Stansfield E, **Butaric LN**, Vasilyev AY, Vasilyev S. Respiratory adaptations in Upper Paleolithic Europeans. Submitted to *Journal of Human Evolution*, March 2019. *My role: shared responsibility with first author in data interpretation, figure creations, and writing.*

2019 **Butaric LN**, Stansfield E, Vasilyev AY, Vasilyev S. CT-based descriptions of the paranasal complex of Sungir-1, an Upper Paleolithic European. *PaleoAnthropology Journal* 2019: 389-399. doi:10.4207/PA.2019.ART137

Accepted. Langley N, **Butaric LN**. Anatomical Sciences Education among Biological Anthropology Graduates: A Solution to the Dearth of Anatomy Educators? Submitted to *Medical Science Educator* January 2019. *My role: shared responsibility in creating and administering survey, interpretation of data, and writing.*

2019 *Marks TN, Maddux SD, **Butaric LN**, Franciscus, RG. Climatic adaptation in human inferior nasal turbinate morphology: evidence from Arctic and Equatorial populations. *American Journal of Physical Anthropology*, 169: 498-512. *My role: Assisted in development of concept, mentoring first-author student in data collection, and writing. Created all figures.*

2019 **Butaric LN**, *Wadle M (DO'18), *Gascon J. Anatomical variation in maxillary sinus ostium position: implications for nasal-sinus disease. *Anatomical Record*, 302: 917-930.

2018 **Butaric LN**, *Klocke RP (DO'19). Nasal variation in relation to high-altitude adaptations among modern humans. *American Journal of Human Biology* 30: e23104. <https://doi.org/10.1002/ajhb.23104>

2017 **Butaric LN**, Light LEO, *Juengst SL. A call for action: Why anthropologists can (and should) join the discussion on climate change through education. *American Journal of Human Biology* 29: e23002, Special Issue: Humans in Marginal Environments.

2017 Maddux SD, **Butaric LN** (corresponding author). Zygomaticomaxillary morphology and maxillary sinus form and function: How spatial constraints influence pneumatization patterns among modern humans. *The Anatomical Record Special Issue: Understanding the Zygoma: A Key Morphofunctional Partition in the Craniofacial Skeleton Evolution*. 300:209–225. Open Access. *My role: shared equal responsibility with first author over course of project.*

2017 Maddux SD, **Butaric LN**, Yokley T, Franciscus R. Ecogeographic variation across morphofunctional units of the human nose. *American Journal of Physical Anthropology* 162:103–119. *My role: Shared responsibility in data collection and writing with first author.*

2016 **Butaric LN**, Maddux SD. Morphological covariation between the maxillary sinus and midfacial skeleton among sub-Saharan and circumpolar modern humans. *American Journal of Physical Anthropology* 160: 483-497.

2015 **Butaric LN**. Differential scaling patterns of maxillary sinus volume and nasal cavity breadth among modern humans. *Anatomical Record* 298:1710-1721.

2014 Hammer RD, **Butaric LN**. Arrested pneumatization with extramedullary hematopoiesis of the clivus/sphenoid simulating metastatic carcinoma. *Austin Journal of Anatomy* 1:2. *My role: Shared responsibility in data collection and wrote majority of the article*

2013 Holton NE, Yokley TR, **Butaric LN**. The morphological interaction between the nasal cavity and maxillary sinuses in living humans. *Anatomical Record* 296: 414-426. *My role: Assisted in data interpretation and writing.*

Media Coverage for Holton et al. (2013):

- Science Daily. Nose's unheralded neighbor: maxillary sinuses allow noses to change shape. <https://www.sciencedaily.com/releases/2013/03/130312134738.htm>
- CNN.com. Why our noses are different shapes. <http://thechart.blogs.cnn.com/2013/03/20/why-our-noses-are-different-shapes/>

2010 **Butaric LN**, McCarthy RC, Broadfield DC. A preliminary 3D computed tomography study of the human maxillary sinus and nasal cavity. *American Journal of Physical Anthropology* 143:426-436.

CONFERENCE PRESENTATIONS (*denotes student contributor on project)

2019, July. Fowers J* (DO'22), **Butaric L**. High altitude effect on maxillary sinus volume and surface area. Poster Presentation, Des Moines University Symposium. Des Moines, IA.

2019, July. Botten M* (DO'22), **Butaric L**, Garvin H. Frontal sinus variation in the DMU crania teaching collection. Poster Presentation, Des Moines University Symposium. Des Moines, IA.

2019, June. Kim S*, Maddux SD, **Butaric LN**. Demographical and sex-based differences in maxillary sinus anatomy: implications on health disparities in sinusitis. 14th Annual Texas Conference on Health Disparities. Ft Worth, TX.

2019, April. Ryan K*, Aeurbach B, **Butaric LN**. Modularity and integration of the sphenoid body in human cranial variation: The confluence of functional matrices. Poster Presentation, American Association of Anatomists, Experimental Biology April 2019 meetings (Orlando, Florida).

2019, April. **Butaric LN**, Ruettinger C (DO'21)*. Application of 3D printing and ultrasound in anatomical education. Poster Presentation, American Association of Anatomists, Experimental Biology April 2019 meetings (Orlando, Florida).

2019, March. Kim S*, **Butaric L**, Rosales A, Maddux S. Variation in maxillary sinus anatomy: Implications of ostium positioning on health disparities in sinusitis. Poster Presentation, Louisa Burns Osteopathic Research Committee, American Academy of Osteopathy, March 2019 Convocation (Orlando, Florida).

2019, March. **Butaric LN**, Maddux SD, Nicholas CL, Evteev A. Ontogenetic processes in the nasal cavity among Alaskan Inuits: Implications for respiratory adaptations in cold-dry environments. Poster Presentation American Association of Physical Anthropologists for April 2019 meetings (Cleveland, OH).

2018, December. *Jones G (DO'21), **Butaric L**. CT Analysis of Frontal Sinus Agenesis in Arctic American Populations. Poster presented at the Des Moines University Research Symposium.

2018, December. *Ewert A (MSA/DO'21), **Butaric LN**. M3 and M3 Ontogeny: How Does M3 Development Impact Maxillary Sinus Growth? Poster presented at the Des Moines University Research Symposium.

2018, September. Marks T*, **Butaric L**, Maddux S, Franciscus R. Evidence for climatic adaptation in human nasal turbinate morphology. Poster. European Society for the study of Human Evolution. Portugal.

2018, April. Marks T*, **Butaric L**, Maddux S, Franciscus R. Climatic adaptation in human inferior nasal turbinate morphology: A preliminary investigation in Arctic and Equatorial populations. Poster. American Association of Anatomists. San Diego, CA.

2018, April. M Kesterke, **L Butaric**, W Stenberg, Q Zhang, T Han*, H Zhu*, Q Wang, Q Zhang. Estimating bite forces using muscle modeling and cortical bone thickness. Poster. American Association of Anatomists. San Diego, CA.

2018, April. Kesterke M, **Butaric L**, Zhang Q, Han T*, Zhu H*, Zhang Q, Wang Q. Subsistence and facial form: estimating masticatory muscle mechanical efficiency in historical populations from Northern China. Poster. American Association of Physical Anthropologists Austin, TX. *Refereed abstract published in American Journal of Physical Anthropology 165(S66):138.*

2018, April. **Butaric L**, Q Zhang, T Han*, H Zhu*, Q Zhan, Q Wang. 2018, April. A divided issue: Investigating internal-structural differences of crania with *os japonicum*. Poster. American Association of Physical Anthropologists Austin, TX. *Refereed abstract published in American Journal of Physical Anthropology 165(S66):38.*

2018, April. Bergstrom K*, **Butaric L**, Gidna A, Musiba C, Selden RZ, Magori C. Taphonomic and Fossil Reconstructive Analyses of the Ngaloba (LH 18) Skull. Poster. Paleoanthropology Society. Austin, TX. *Also presented 2018, March. Texas Academy of Sciences. Midland, TX.*

2018, February. Langley NR, **Butaric LN**. Anatomy and biological anthropology: time for a family reunion? Poster. American Academy of Forensic Sciences. Seattle, WA.

2017, December. Schwalbe K (DO'19)*, **Butaric L**, Yokley T. Quantification of Optic Nerve and Optic Foramen Breadth. Poster. Des Moines University Research Symposium. Des Moines, IA.

2017, November. Maddux S, **Butaric L**, Franciscus R. Modern human nasal projection: reassessing a climatic adaptation. Podium. Texas Association of Biological Anthropologists. San Antonio, TX.

2017, November. **Butaric L**, M Kesterke, W Stenberg, S Maddux, Q Zhang, T Han, H Zhu, Q Zhang, Q Wang. Third molar agenesis: prevalence and asymmetry in Northern Chinese archaeological populations. Poster. American Association of Anatomists Regional Meetings. Pittsburgh, PA.

2017, November. M Kesterke, **L Butaric**, W Stenberg, Q Zhang, T Han, H Zhu, Q Wang, Q Zhang. Does third molar agenesis affect masticatory muscle mechanical efficiency- a comparative archaeological study. Poster. American Association of Anatomists Regional Meetings. Pittsburgh, PA.

2017, September. Maddux SD, **Butaric LN**, Franciscus R. Climate and modern human nasal evolution: Reassessing the adaptive role of nasal projection. Poster. European Study for the study of Human Evolution, Leiden, Netherlands. *Refereed abstract in Proceedings of the European Society for the study of Human Evolution 6.*

2017, July. Langley N, **Butaric LN**. Anatomical sciences education among biological anthropology graduates. American Association of Clinical Anatomists. Minneapolis, MN.

2017, April. **Butaric LN**, *Klocke R (DO'18). Craniofacial adaptation and upper respiratory function among high-altitude inhabitants. American Association of Anatomists. Chicago, IL. *Refereed abstract published in The FASEB Journal 31(1_supplement; 578.2).*

2017, April. **Butaric LN**, *Klocke R (DO'19). Internal craniofacial morphology of high-altitude Tibetans may reflect unique adaptations to hypoxic environments. American Association of Physical Anthropologists. New Orleans, LA. *Refereed abstract published in American Journal of Physical Anthropology 162(S64):133.*

2017, April. *Marks T (Univ Iowa, PhD), **Butaric LN**, Maddux SD, Franciscus RG. Inferior nasal turbinate morphology in Arctic and sub-Saharan African humans: Implications for understanding climatic adaptation in the nasal complex. American Association of Physical Anthropologists. New Orleans, LA. *Refereed abstract published in American Journal of Physical Anthropology 162(S64):276.*

2016, December. *Winters M (DO'20), **Butaric LN**. Nasal cavity and maxillary sinus ontogenesis: landmarking protocols. Poster. DMU Mentored Student Research Symposium. Des Moines, IA.

2016, Nov. Maddux SD, **Butaric LN**, Franciscus RG. Climate and the modern human nose: Reassessing the adaptive role of nasal projection. Podium. Texas Association of Biological Anthropologists. Austin, TX.

2016, July. *Klocke R (DO'19), **Butaric LN**. High altitude effects on cranial size and nasal morphology. Poster. DMU Mentored Student Research Symposium. Des Moines, IA.

2015, Sept. **Butaric LN**, Maddux SD. Covariation of the internal and external midfacial skeleton among modern humans of Asian descent. Poster. European Society for the study of Human Evolution. London, England. *Refereed abstract published in Proceedings of the European Society for the study of Human Evolution 4:62.*

2015, Sept. Nicholas C, **Butaric L**, Evteev A. A 3D geometric morphometric analysis of internal nasal fossa shape variation in hot/cold climate populations of extant humans. Poster. European Society for the study of Human Evolution. London, England. *Refereed abstract published in Proceedings of the European Society for the study of Human Evolution 4:170.*

2015, July. *Gascon J (DO'18), **Butaric LN**. Analysis of the sphenoid sinus and arrested pneumatization in relation to cranial base angle. Poster. DMU Mentored Student Research Symposium. Des Moines, IA.

2015, July. *Smith A (DO'18), **Butaric LN**. Hyperpneumatization of the maxillary sinus and its relationship to suture morphology in four populations. Poster. DMU Mentored Student Research Symposium. Des Moines, IA.

2015, April. **Butaric LN**, Maddux SD. Morphological covariation between maxillary sinus shape and the midfacial skeleton. Poster. American Association of Physical Anthropologists. St Louis, MO. *Refereed abstract published in American Journal of Physical Anthropology 156(S60):96-97.*

2015, April. McCarthy RC, **Butaric LN**. Changes to the face and basicranium in a habitually bipedal Japanese macaque (*Macaca fuscata*). Poster. American Association of Physical Anthropologists. St Louis, MO. *Refereed abstract published in American Journal of Physical Anthropology 156(S60):220.*

2014, Nov. Harper-Judd J, Holliday C, Knocke M, **Butaric L**, *George I, Middleton K, *Moffett E, *Swartz S, *Tsai H, Warren A. Dinosaurs and Cavemen Science Expo: Science outreach using interactive and experiential anatomical learning. Education and Outreach Poster Session. Society of Vertebrate Paleontology. Berlin, Germany.

2014, April. **Butaric LN**, Maddux SD. A preliminary 3D analysis of ecogeographical variation in modern human (*Homo sapiens*) maxillary sinus shape. Poster. American Association of Physical Anthropologists. Calgary, Canada. *Refereed abstract published in American Journal of Physical Anthropology 153(S58):87.*

2014, April. Maddux S, Ward C, Middleton K, Aldridge K, Holliday C, Harper-Judd J, Jorgensen M, **Butaric L**, Wetzel S. The role of the gift of body donors as medical educators. Poster. University of Missouri School of Medicine Education Day. Columbia, MO.

2014, April. Harper-Judd J, Ward CV, Aldridge KJ, Holliday CM, Maddux SD, Middleton K, Jorgensen M, **Butaric L**. Undergraduate human anatomy course redesign. Poster. University of Missouri School of Medicine Education Day. Columbia, MO.

2013, April. **Butaric LN**. Ecogeographic patterning in maxillary sinus form among modern humans. Poster. American Association of Physical Anthropologists. Knoxville, TN. *Refereed Abstract published in American Journal of Physical Anthropology 150(S56):92.*

2013, March. **Butaric LN**. Ecogeographic patterning and upper respiratory function of the maxillary sinus among modern humans (*Homo sapiens*). Podium. Texas Academy of Science. Kerrville, TX.

2012, Nov. **Butaric LN**. Identifying population differences in the nasal complex among modern humans. Podium. Texas Association of Biological Anthropologists. Dallas, TX.

2010, Nov. **Butaric LN**. Relationships between maxillary sinus surface area and cranial dimensions. Poster. Texas Association of Biological Anthropologists. Waco, TX.

2008, April. **Butaric LN**. Re-evaluating the influence of cold stress on the Neanderthal nasal aperture. Poster. American Association of Physical Anthropologists. Columbus, OH. *Refereed abstract published in American Journal of Physical Anthropology 135(S46):75.*

2007, April. **Butaric LN**, Broadfield DC, McCarthy RC. A preliminary study on the relationship between nasal cavity and maxillary sinus volumes. Poster. American Association of Physical Anthropologists. Philadelphia, PA. *Refereed abstract published in American Journal of Physical Anthropology 132(S44):82.*

THESIS/DISSERTATION COMMITTEES (External)

-**Tarah Marks**. PhD track, University of Iowa. Department of Anthropology. Primary advisor: Dr. R Franciscus. Topic: Turbinate variation and airflow dynamics of the human nose. Status: *Ongoing*

-**Logan Moore**. PhD track, University of Iowa. Department of Anthropology. Primary advisor: Dr. R Franciscus. Topic: Plagiocephaly and endocranial volume: evolutionary insights. Status: *Ongoing*

-**Katharyn Ryan**. PhD track, University of Tennessee-Knoxville. Department of Anthropology. Primary advisor: Dr. B Auerbach. Topic: 3D relationships between the sphenoidal sinus and cranial base of modern humans. Status: *Ongoing*

-**William Stenberg**, DDS. PhD track, Baylor College of Dentistry. Primary advisor: Dr. M Kesterke. Topic: Maxillary sinus growth & evolution. Status: *Ongoing*

INVITED TALKS, WORKSHOPS, & PANELS

Invited Talk. Layers of Identity: Dissecting the path to (assistant) professor of anatomy. Women at Noon Series: Lasting Legacies. Department of Multicultural Affairs, Des Moines University. 2019, March 5.

Invited Lecture. Assessing biological affinity (not race) in forensic settings. Forensic Osteology, Department of Anatomy, Des Moines University. 2019, March 12.

Invited research talk. 3D processing: Potential promises, perils, and pitfalls. University of North Texas, Health Science Center, Ft. Worth, TX. 2018, May.

Invited 2-day workshop leader. 3D Imaging Workshop. University of North Texas, Health Science Center, Ft. Worth, TX. 2018 May.

Invited research talk. In your face: Internal craniofacial variation among modern humans. Graduate Biology Colloquium, Department of Biology, University of Northern Iowa. 2017, August.

Invited research talk. Living on top of the world: Craniofacial adaptations at high altitude. Archaeology Day. Department of Archaeology, Jilin University, Changchun, China. 2017, May.

Invited research talk. In your face: Form and function of the internal midfacial skeleton. University of North Texas, Health Science Center, Ft. Worth, TX. 2016, Nov.

Invited discussant leader for poster symposium. Humans in marginal environments. American Association of Physical Anthropologists annual meeting. Atlanta, GA. 2016, Apr.

Panel organizer & host. The Anthropologist's ACademic Taboo: Discussing alternative opportunities to traditional R1 anthropology faculty positions. American Association of Physical Anthropologists annual meeting. Atlanta, GA. 2016, Apr.

Invited lecture. Airheads: Anatomy and physiology of the nasal complex. Central Campus, Des Moines, Iowa. 2014, Nov 7 & 8

Invited research talk. Arrested development: Understanding clinical implications of paranasal sinus growth & variation. Friday Research Seminar Series, Des Moines University, Des Moines, IA. 2014, Nov 7.

Invited workshop leader. Analysis of computed tomography images. Co-directed with RC McCarthy. College of Science, Benedictine University, Naperville, IL. 2014, Mar 27-29.

Invited research talk. In your face: Modern human variation of internal craniofacial structures. College of Science, Benedictine University, Naperville, IL. 2014, Mar 28.

Invited research talk. Exploring patterns of internal facial variation among modern humans. Department of Biomedical Sciences, Grand Valley State University, Grand Rapids, MI. 2014, Jan 14.

Invited research talk. Delving deeper: Nasal cavity and maxillary sinus variation among modern humans. Grand Rounds seminar, Dept of Pathology & Anatomical Sciences, University of Missouri, Columbia, MO. 2013, Dec 2.

Invited research talk. Interpreting internal craniofacial variation in modern humans. Brown Bag Series seminar. Department of Anthropology, Texas A&M University. 2013, Apr 1.

Invited research talk. Delving deeper: Interpreting internal craniofacial variation in modern humans. Department of Anthropology, University of Alaska Anchorage. 2013, Feb 6.

TEACHING EXPERIENCE

Department of Anatomy, Des Moines University <i>Lecturer & Lab Instructor</i> Gross Anatomy (DO, MSA, DPM) Foundational Sciences Anatomy (DPT) (<i>September 2014-2016</i>) Lower Limb Anatomy (DPM) Clinically Oriented Anatomy (PA) Teaching in Anatomy (MSA)	July 2014 – present
<i>Course Coordinator Positions</i> Anatomy Seminar II (MSA) Clinically Oriented Anatomy (PA)	January 2015 – present May 2016 – present
Department of Pathology & Anatomical Sciences, University of Missouri <i>Course Director for Lecture and Lab, Summer Gross Anatomy (PT & OT)</i> <i>Course Director and Lecturer, Undergraduate Anatomy (w/ model lab instruction)</i> <i>Lab Instructor, Gross Anatomy (MD students)</i>	May 2013 – July 2014
Biology Department, Texas A&M University <i>Lab Instructor, Anatomy & Physiology I (Undergraduate, cat dissections)</i>	Aug 2010 – May 2013
Department of Anthropology, Texas A&M University <i>Lecturer & Course Director, Intro to Anthropology</i> <i>Lab Instructor, Intro to Physical Anthropology</i> <i>Lecturer & Co-Director, Peoples and Cultures of the World</i>	Aug 2006 – May 2010
Department of Clinical Sciences and Medical Education, Florida Atlantic University <i>Lab Teaching Assistant, Gross Anatomy (MD students)</i>	June – July 2006
Department of Cell Biology and Anatomy, University of Miami <i>Lab Teaching Assistant, Gross Anatomy (MD students)</i>	Sept – Oct 2005
Department of Anthropology, Florida Atlantic University <i>Lab Instructor, Intro to Biological Anthropology</i>	Aug 2005 – May 2006
Department of Philosophy, Florida Atlantic University <i>Discussion Section Teaching Assistant, Reason and Value</i>	Jan – May 2005
Department of Anthropology, University of Central Florida <i>Teaching Assistant, Human Osteology Lab</i>	Aug – Dec 2003

NON-TEACHING APPOINTMENTS

Writing Consultant and Graduate Assistant Director, TAMU University Writing Center. Duties: Consulting one-on-one with undergraduate and graduate students to improve written and oral communication skills; co-directing graduate student writing groups.	Aug 2011 – Jan 2013
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Freelance Editor , Locke Science Publishing, Co. Duties: Copy editing and proofreading quarterly issues for the <i>Journal of Architectural and Planning Research</i> .	April 2010 – Jan 2013
Editorial Assistant , <i>Journal of Architectural and Planning Research</i> .	Aug 2009 – March 2010

FIELDWORK EXPERIENCE

Excavator, Natural Trap Cave, Wyoming Project leader: Julie Meachen, Ph.D. Des Moines University	July 2015
Primateology Study Assistant, Ometepe, Nicaragua Project leader: Andrew Halloran, Ph.D. Florida Atlantic University; Ometepe Biological Field School	June – July 2008
Excavator, Matjhabeng Railway & Mimosa Site, South Africa Project leader: Darryl de Ruiters, Ph.D. Texas A&M University; the Transvaal Museum	May – June 2007, 2008

COMPETITIVE GRANTS, FELLOWSHIPS, AND AWARDS

IOER Research Grant (Internal) <i>Awarded \$9,477.0</i> Fingerprinting the skull: Assessing error rates of frontal sinus outlines for positive forensic identifications	March 2019
IOER Research Grant (Internal) <i>Awarded \$24,963</i> Research & Grants Office, Des Moines University The high-altitude dilemma	Oct 2014
Vision 2020 Dissertation Improvement Grant <i>Awarded \$5,000</i> College of Liberal Arts, Texas A&M University	Jan 2012
Collection Study Grant <i>Awarded \$1,200</i> Richard Gilder Graduate School & American Museum of Natural History	Dec 2011
2nd Place Graduate Student Research Grant <i>Awarded \$1,200</i> Texas Academy of Science, Austin, Texas	Aug 2011
Student Travel/Conference Grants <i>Miscellaneous amounts</i> Department of Anthropology, Texas A&M University Graduate Student Council, Florida Atlantic University	Feb 2011 & Dec 2012 May 2006

AWARDS & RECOGNITIONS

Paul E. Emmans Outstanding Faculty Teacher Award Faculty Welfare Committee, Des Moines University	June 2019
Champion of Diversity Department of Multicultural Affairs, Des Moines University	May 2018
Student Podium Presentation Award Texas Association of Biological Anthropologists, Dallas, Texas	Nov 2012

Level 2 Tutor Certification College Reading and Learning Association, Texas A&M University	April 2012
2nd Place Student Poster Competition Texas Association of Biological Anthropologists, Austin, Texas	Feb 2008
Morrow's Thesis Research Award Dorothy F. Schmidt's College of Arts and Letters, Florida Atlantic University	May 2007

DES MOINES UNIVERSITY INTERNAL SERVICE

Co-facilitator , Diversity Health Series	Jan 2018 – present
Educational Resources & Technology Committee Co-Chair, 2019 - present	July 2018 – present
Anatomy Faculty Search Committee	Aug 2016 – February 2017
University Nomination Committee	Jan 2016 – Dec 2016
Biomedical Science Curriculum Committee	July 2015 – June 2018
COM Scholarship Committee Chair, 2017- present	Jan 2015 – present
MSA APC Committee (no longer active)	July 2014 – 2016
Interviewer , COM & MSA Admissions	Dec 2014 – present
Poster Judge , Des Moines University Research Symposium	Dec 3, 2015; Dec 1, 2016
Oral Abstract Judge , Des Moines University Research Symposium	Dec 4, 2014

PROFESSIONAL SERVICE & COMMUNITY OUTREACH

Feature Cover Story , <i>Nosing through links between sinus shape and climate.</i> By Kate Hayden. Business Record.	May 10, 2019
DMU-Representative , Warren Marrow Latin Music Festival Des Moines University, Multicultural Affairs	July 2019
Judge , ranked W.S. Pollitzer Student Travel-Award essays American Association of Physical Anthropologists 2019 meetings	January 2019
Event worker , LGBT Healthcare Conference w/ Iowa One Des Moines University & One Iowa	February 24, 2018
Anatomical-Lab Tour Guide , Live from the Heart Des Moines University & Des Moines Public Schools	February 23, 2018
Board of Reviewers , Anatomical Record Journal of the American Association of Anatomists	Jan 2018 – present
Committee Member Committee of Diversity: Women's Initiative taskforce, AAPA	April 2018 – present
Committee Member Committee of Diversity: AACT taskforce, AAPA	April 2014 – present

Host & organizer for the 2016, 2018 Panels	
Consultant on media article , “Snot What You Think” in Knowable Magazine https://www.knowablemagazine.org/article/health-disease/2017/snot-what-you-think-unknown-toll-chronic-sinus-problems	Nov 2017
Education Committee member , AAPA Participant/developer for 2016’s hands-on hominin evolution activity for high schools in Atlanta area.	Aug 2015 – April 2016
Consultant on media article , “How Your Nose Got Its Shape” in The Scientist http://www.the-scientist.com/?articles.view/articleNo/46606/title/How-Your-Nose-Got-Its-Shape	August 2016
Peer reviewer , National Science Foundation, Cambridge University Press; American Journal Physical Anthropology; Journal of Advanced Research; Journal of Human Biology; Evolutionary Biology; The Anatomical Record; Journal of Human Evolution; Journal of Anatomy; Cleft Palate Craniofacial Journal Visit https://publons.com/researcher/1312022/lauren-butaric/	Ongoing
Discussion leader , “Race: Are we so different” DMU field trip to Science Center	Feb 18, 2016
Mentor , Girls in Science Dinner Science Center, Des Moines, IA	October 2015
Event worker , Gross anatomy lab visits for local high schools & colleges University of Missouri, Columbia, MO	Aug 2013 – July 2014
Planning committee & event , Dinosaurs & Cavemen Science Expo University of Missouri, Integrative Anatomy, & Columbia Public Schools Planetarium, Columbia, MO.	Feb 2014
Planning committee & event , Academic Peer Educator Conference Texas A&M University, College Station, TX	Sept 2011 – Jan 2013
Planning committee & event , Texas Association of Biological Anthropologists Annual Meeting, Texas A&M University, College Station, TX	Nov 2008
Student poster judge , Ecological Integrated Symposium Texas A&M University, College Station, TX	April 2008

PROFESSIONAL ASSOCIATIONS

American Association of Anatomy (AAA)	2015 – present
National Center for Science Education (NCSE)	2014 – present
American Association of Physical Anthropologists (AAPA)	2006 – present
European Society for the study of Human Evolution (ESHE)	2015 – 2017
Texas Academy of Science (TAS)	2011 – 2013
Texas Association of Biological Anthropologists (TABA)	2007 – 2013

CONTINUING MEDICAL EDUCATION ACTIVITIES

DMU Diversity Health Series, Certificate Awarded	November 2017
DMU Mentored student research program (MSRP), Mentor	Summer 2015 - Present
Gulf Coast Ultrasound Institute, Ultrasound Hands-on Workshop	June 2015
The Ohio State University, Ultrasound in Anatomy and Physiology Education	March 2016