Curriculum Vitae

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EDUCATION

2015	PhD, Physical Anthropology, Stony Brook University Dissertation: *Comparative Morphology of Primate Distal Phalanges: Implications for Early Primate Evolution and the Origins of the Primate Nail* Advisor: William L. Jungers
2010	MA, Physical Anthropology, Stony Brook University
2005	BS, Evolutionary Anthropology & Computer Science, Rutgers University

ACADEMIC APPOINTMENTS

2017 –	**Assistant Professor**, Department of Anatomical Sciences, Stony Brook University School of Medicine
2015 – 2017	**Lecturer**, Department of Pathology and Anatomical Sciences, University of Missouri School of Medicine
2014	**Adjunct Professor**, Colin Powell School – The City College of New York
2014	**Instructor**, Science and Technology Entry Program, Stony Brook University
2012	**Adjunct Professor**, Stony Brook University
2007 – 2014	**Teaching Assistant/Lab Instructor/Graduate Assistant/Research Assistant**, Stony Brook University

INTERESTS

Research:
Comparative, evolutionary, and functional morphology of digits; Claws and nails; Mammalian locomotor evolution; Primate origins and evolution

Teaching:
Human gross anatomy (Clinically-oriented, model-based, and dissection-based)

AWARDS AND GRANTS

External

2013 Doctoral Dissertation Improvement Grant: Comparative and functional morphology of primate ungulae and distal phalanges (BCS 1341075), National Science Foundation, Arlington, VA ($9277)

2013 Comparative and functional morphology of primate nails and distal phalanges, The Leakey Foundation, San Francisco, CA ($2700)

Internal

2013 GSEU Professional Development Award, Local 1104/Graduate Student Employees Union, Farmingdale, NY ($1000)

2012 Norman Creel Prize for Anatomical Research, Department of Anatomical Sciences, Stony Brook University ($1500)

2012 President's Award for Excellence in Teaching by a Graduate Student, The Graduate School, Stony Brook University ($500)

PUBLICATIONS

Peer-reviewed Journal Articles

2018 Boyer DM, Maiolino SA, Holroyd PA, Morse PE, Bloch JI. Oldest evidence for grooming claws in euprimates. *Journal of Human Evolution*, 122:1022. doi: 10.1016/j.jhevol.2018.03.010.

2015 Gilbert CC, **Maiolino SA**. Comment to "Primates in the Eocene" by Gingerich (2012). *Palaeobiodiversity and Palaeoenvironments*. doi: 10.1007/s12549-015-0184-1.

2012 **Maiolino SA**, Boyer DM, Bloch JI, Gilbert CC, Groenke J. Evidence for a grooming claw in a North American adapiform primate: implications for anthropoid origins. *PLoS ONE* 7:e29135. doi:10.1371/journal.pone.0029135.

2011 **Maiolino SA**, Boyer DM, Rosenberger A. Morphological correlates of the grooming claw in distal phalanges of platyrrhines and other primates: a preliminary study. *Anatomical Record*, 294:1975-1990.

Peer-reviewed Book Chapters

2016 **Maiolino SA**, Kingston AK, Lemelin P. Comparative and functional morphology of the primate hand integument. In: Kivell TL, Lemelin P, Richmond BG, and Schmitt D., editors. The Evolution of the Primate Hand: Perspectives from Anatomical, Developmental, Functional and Paleontological Evidence. New York: Springer.

2016 Patel BA, **Maiolino SA**. Morphological diversity in the digital rays of primate hands. In: Kivell TL, Lemelin P, Richmond BG, and Schmitt D., editors. The Evolution of the Primate Hand: Perspectives from Anatomical, Developmental, Functional and Paleontological Evidence. New York: Springer.

News and Reviews

2013 **Maiolino SA**, Pain E, Perlman R, Nesbitt A, Thompson NE. Chasing monkeys and finding fossils under the Sunsphere. *Evolutionary Anthropology*, 22:161-163.

2011 Baden AL, **Maiolino SA**, Holowka N, Jacobs RL. Eightieth annual meeting of the American Association of Physical Anthropologists. *Evolutionary Anthropology*, 20: 123-125.

Abstracts

2017 **Maiolino SA**. Middle phalanx morphology reflects postural differences of primate grooming and nail-bearing digits. *American Journal of Physical Anthropology*, 162(S64):273

2017 Boyer DM, **Maiolino SA**, Holroyd PA, Morse PE, Bloch JI. Evidence for grooming claws in the earliest omomyids. *American Journal of Physical Anthropology*, 162(S64):127-128

2016 **Maiolino SA**. Anthropoid grooming ungues and ancestral state estimations of second pedal unguis form. *American Journal of Physical Anthropology*, 159(S62):217.

2015 **Maiolino SA**, Huang S, Boyer DM. Nail-like distal phalanges on postaxial digits are related to the use of a terminal branch niche in non-primate mammals. *American Journal of Physical Anthropology*, 156(S60):211.

2014 **Maiolino SA**. Identifying homologies among claws and nails: Implications for primate evolution. *American Journal of Physical Anthropology*, 153(S58):175.

2013 **Maiolino SA**, Boyer DM. Distal phalangeal evolution in early euprimates. *Journal of Vertebrate Paleontology*, 33(S):169.

2013 **Maiolino SA**. Morphological variation in adapiform and omomyoid distal phalanges. *American Journal of Physical Anthropologists*, 150(S56):187.

2012 Yapuncich GS, Boyer DM, **Maiolino SA**, Bolortsetseg M. New data for evaluating functional morphology in Ptilodontidae (Allotheria, Multituberculata) using digital preparation. *Journal of Vertebrate Paleontology*, 32(S2):198.

2011 **Maiolino SA**, Boyer DM, Lemelin P, Bloch JI, Groenke J. Semi-articulated foot of Eocene *Notharctus*: new evidence for a grooming claw in an adapiform primate from North America. *Journal of Vertebrate Paleontology*, 31(S2):150.

2011 **Maiolino SA**. Grooming claws: what are they and who has them? *American Journal of Physical Anthropologists*, 144(S52):204.

2010 **Maiolino SA**, Boyer DM, Bloch JI. Grasping, clasping, and claw climbing: locomotor specializations of non-hallucal distal phalanges in plesiadapiform primates. *American Journal of Physical Anthropologists*, 141(S50):161-162.

2007 **Maiolino SA**, Boyer DM. Evidence from claw morphology for a diversity of positional behaviors in plesiadapid "plesiadapiforms." *Journal of Vertebrate Paleontology*, 27(S3):111A.

INVITED TALKS

2017 Evolution of primate nails and grooming claws. Department of Growth, Development and Structure, School of Dental Medicine, Southern Illinois University. May 2017.

2017 Evolution of primate nails and grooming claws. Department of Anatomy, Des Moines University. January 2017.

MEDIA COVERAGE

2018 "SBU's Maiolino teams up in primate claw study" in TBR Newsmedia (July 18). http://tbrnewsmedia.com/sbus-maiolino-teams-primate-claw-study/

2018 "Tiny fossils give clues to origins of human social structure" in Berkeley News (June 22). https://news.berkeley.edu/story_jump/tiny-fossils-give-clues-to-origins-of-human-social-structure/

2018 "Ancient Primates Had Specialized Grooming Claws" in Stony Brook University News (June 21). https://news.stonybrook.edu/featuredpost/ancient-primates-had-specialized-grooming-claws/

2012 "Toe Fossil Contributes to a Head Scratcher" in The New York Times (Jan. 16). http://www.nytimes.com/2012/01/17/science/primate-fossil-adds-to-claw-toenail-debate.html?_r=0

2012 "Is This a Clue to Toenail Evolution?" in Light Years – CNN (Jan. 24). http://lightyears.blogs.cnn.com/2012/01/24/is-this-a-clue-to-toenail-evolution/

2012 "Preening the History of Primates" in Wired Science Blogs/Laelaps (Jan. 30). http://www.wired.com/wiredscience/2012/01/preening-the-history-of-primates/

RESEARCH, WORKSHOPS, AND FIELD EXPERIENCE

2013 Paleontological field work at Can Llobateres (Miocene), Vallès-Penedès Basin, Catalonia, Spain

2010 AnthroTree Workshop, University of Massachusetts, Amherst, training in phylogenetic comparative methods and software **(**selected participant)

2007 – Present Visiting Researcher, Mammalogy Collections, American Museum of Natural History

CLASSROOM/LAB TEACHING EXPERIENCE

2018 − Present **Regional Human Anatomy** (HBA 461/561/540), School of Health Technology and Medicine at Stony Brook University, cadaver-based anatomy for physician assistant, physical therapy, and respiratory care therapy students
Role: lab instructor, team taught

2017 − Present **The Body** (MED 500a), Stony Brook University, cadaver-based anatomy for first year medical students
Role: lab instructor, team taught

2016 − 2017 **Gross Human Anatomy** (PTH_AS 7222/4222), University of Missouri, cadaver-based anatomy for first year students of occupational and physical therapy
Role: course director, team taught

2016	**Fundamentals of Evolutionary Biology** (PTH_AS 8100), University of Missouri, graduate course Role: team taught
2015 − 2017	**Clinically Oriented Human Gross Anatomy** (Basic Science/Patient Based Learning), University of Missouri School of Medicine, cadaver-based anatomy for first year medical students with clinical focus Role: lab instructor, team taught
2015 − 2017	**Human Anatomy Laboratory** (PTH_AS 2203), University of Missouri, undergraduate hybrid (online and model-based lab components) course with clinical focus Role: course director, team taught
2015	**Fundamentals of Evolutionary Morphology** (PTH_AS 8150), University of Missouri, graduate course Role: team taught
2014	**Human Origins** (ANTH 20300), Colin Powell School – The City College of New York, undergraduate lecture course Role: course director
2014	**Human Anatomy Lab**, Science and Technology Entry Program (STEP), Stony Brook University, short course for high school students Role: course director
2011 – 2012	**Introduction to Biological Anthropology** (ANP 120), Stony Brook University, undergraduate lecture course Role: course director & lab instructor
2011	**Introduction to Biological Anthropology Lab** (ANP 121), Stony Brook University, undergraduate co-requisite lab Role: lab instructor
2010 – 2014	**Regional Human Anatomy** (HBA 461/561/540), Stony Brook University, cadaver-based anatomy for physical therapy, physician assistant, and respiratory care therapy students Role: lab instructor
2010	**The Body** (HBA 531), Stony Brook University, cadaver-based anatomy for first year medical students Role: lab instructor

2010 **Human Evolution** (ANP 330), Stony Brook University, undergraduate lecture course
Role: teaching assistant

2008 – 2014 **Human Anatomy** (ANP 300), Stony Brook University, undergraduate, model-based anatomy
Role: lab instructor

2007 **Applied Anthropology** (ANT 381), Stony Brook University, undergraduate lecture course
Role: teaching assistant

2007 **Peasants** (ANT 361), Stony Brook University, undergraduate lecture course
Role: teaching assistant

STUDENTS MENTORED

2019 – Present Diane Bernardoni (Graduate) IDPAS, Stony Brook University
Role: Primary PhD advisor

2019 – Present Lydia Myers (Undergraduate), Stony Brook University
Role: Reader for senior honors thesis

2014 – 2015 Susan Huang (High School), Plainview Old Bethpage JFK HS
Role: Advised student on research project (*Analysis of the Pedal Morphology of the Early Primate Notharctus tenebrosus with Implications for Reconstruction of Locomotor Mode*) submitted to 2014 Siemens Competition in Math, Science & Technology for which she was a semifinalist

2014 – 2015 Cameron Burke-Simmonds (Undergraduate), Stony Brook University
Role: Advised student on research project (*Morphometrics of the primate intermediate phalanx is related to the presence of grooming claws*) that he presented at the URECA Celebration, Undergraduate Research and Creative Activities at Stony Brook University

ACADEMIC SERVICE

2019 – Present Preliminary examiner for oral exams in the subject of anatomy for Department of Anatomical Sciences students, Candice Stefanic (Spring 2019) and Alexander Beyl (Expected Spring 2020), Renaissance School of Medicine at Stony Brook University

2019 – Present LACE (Learner Assessment and Curriculum Evaluation) committee member, Renaissance School of Medicine at Stony Brook University

2019 – Present Executive committee member for Interdepartmental Doctoral Program in Anthropological Sciences, Stony Brook University

2019 Evaluator for Norman Creel Prize for Student Research, Department of Anatomical Sciences, Renaissance School of Medicine at Stony Brook University

2019 Participated in the LCME (Liaison Committee on Medical Education) accreditation site visit in April 2019 as member of team of junior faculty interviewed by LCME site visitors at Renaissance School of Medicine at Stony Brook University

2018 – Present Faculty member of Interdepartmental Doctoral Program in Anthropological Sciences, Stony Brook University

2017 – Present Faculty senate member, Stony Brook School of Medicine

2017 – Present Curriculum committee member, Stony Brook School of Medicine

2016 Judge for Life Sciences Week poster competition, University of Missouri

201l – 2012 Graduate Student Representative to the IDPAS Executive Committee, Stony Brook University

2010 – 2011 Graduate Student Representative to the Anthropology Masters Admissions Committee, Stony Brook University

OUTREACH

2019 Redesigned and implemented a new "Paws & Claws" exhibit for Department of Anatomical Sciences table at 2019 Eastern Long Island Mini Maker Faire, Port Jefferson, NY

2016 Media consultant for Houston Press

2016 – 2017 Designed and implemented "Paws & Claws" exhibit for Dinosaurs and Cavemen Science Expo at Rockbridge Senior High, Columbia MO

2016 – 2017 Anatomical demonstrations for freshman interest groups at University of Missouri School of Medicine

2015 Implemented exhibit for Soaring into Science expo at Rockbridge Senior High, Columbia MO

2014 Directed and taught outreach course (Human Anatomy Lab) for high school students underrepresented in the STEM fields at Stony Brook University

PROFESSIONAL MEMBERSHIPS

American Association of Physical Anthropologists
Society of Vertebrate Paleontology