

GINA MARIE AGOSTINI

Buffalo Human Evolutionary Morphology Lab
 University at Buffalo, State University of New York
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EDUCATION

- 2017 Ph.D. in Anthropology with distinction, University of Massachusetts Amherst (UMASS Amherst)
 Dissertation: **“Can long bone structural variability detect among-population relationships?”**
 Ph.D. Advisor: Dr. Brigitte Holt
- 2009 M.A. in Anthropology, North Carolina State University
 Thesis: **“The relationship between body mass index and long bone morphology”**
- 2007 B.A. in Anthropology, French minor, University of Arkansas

RESEARCH POSITIONS

- 2018- Postdoctoral Research Fellow in Biology, National Science Foundation with Buffalo Human Evolutionary Morphology Lab, University at Buffalo (project sponsor)
- 2017-8 Postdoctoral Research Fellow, Obesity Solutions Initiative, Mayo Clinic/Arizona State University
- 2017-8 Postdoctoral Affiliate, Center for Bioarchaeological Research, Arizona State University
- 2015-6 Research Assistant, Comparative Primatology Laboratory, UMASS Amherst

RESEARCH KEYWORDS

Biocultural anthropology, life history, population history, demography and genetics, skeletal variation and plasticity, hominin and primate evolution, developmental modularity and functional integration, weight/obesity

RESEARCH

PUBLISHED MANUSCRIPTS (excludes manuscripts in review, in revision, and in prep)

- Agostini G**, Holt BM, Relethford JH. 2018. Bone functional adaptation does not erase neutral evolutionary information. *American Journal of Physical Anthropology* 166:708-729. DOI: 10.1002/ajpa.23460
- Han S, **Agostini G**, Brewis AA, Wutich A. 2018. Avoiding exercise mediates the effects of internalized weight stigma on physical activity in the years following bariatric surgery. *BMC Obesity* 5(18). DOI: <https://doi.org/10.1186/s40608-018-0195-3>
- Agostini G**, Rasoazanabary E, Godfrey LR. 2017. The befuddling nature of mouse lemur hands and feet. *American Journal of Primatology* 70(9):e22680. DOI: <https://doi.org/10.1002/ajp.22680>
- Agostini G**, Ross AH. 2011. The effect of weight on the proximal femur: a cross-sectional analysis of shape. *Journal of Forensic Sciences* 56(2):339-343. DOI: <https://doi.org/10.1111/j.1556-4029.2010.01648.x>
 n Citations: 24

FUNDING: GRANTS AND RESEARCH (\$517,350 AWARDED TO DATE)

- 2018 **“Skeletal integration in behaviorally convergent species,”** NSF Postdoctoral Research Fellowship (\$138,000), Biology Directorate. Role: PI
- 2018 **“An integrative analysis of the primate skeleton,”** NSF Research grant (\$315,000) with Noreen von Cramon-Taubadel (PI) Role: Coauthor (project development, grant writing) and lead developmental and functional morphologist
- 2018 **“Fluid masculinities: Body capital in shifting age and labor landscapes,”** Arizona State University Institute of Social Science Research seed grant (\$7978) with Cindi SturtzSreetharan. Role: Co-I
Note: offer declined due to conflict with NSF award
- 2016 Dissertation writing support (sponsorship for writing retreat), UMASS Amherst
- 2015 Dissertation Fellowship, UMASS Amherst (\$10,000)
- 2014 **“Can long bone cross-sectional properties reliably reveal interpopulation genetic**

- distance?”** NSF Doctoral Dissertation Research Improvement Grant (\$24,872). **Role:** Co-I
- 2013 UMASS Amherst Dissertation grant (\$1,000)
- 2013 UMASS Amherst Department of Anthropology predissertation grant (\$2,500)
- 2012 **“Place and population landscape: Behavior, health, and sociopolitical change,”** Cultural Heritage of Europe Social Studies Grant, UMASS Amherst (NSF-underwritten program) (\$7,000)
Role: PI
- 2012 UMASS Amherst Natural History Collections scholarship (\$2,500)
- 2010 Foreign Language Area Studies tuition award & stipend, SE Asian Summer Studies Institute (\$7,500)
Note: offer declined due to scheduling conflict
- 2008 Project support, American Academy of Forensic Sciences (\$1,000)

FUNDING: OUTREACH/PUBLIC ENGAGEMENT (10)

- 2010-14 Annual support for high school biological anthropology workshop, College of Social and Behavioral Sciences, UMASS Amherst (ranged yearly from \$600-900)
- 2010-14 Annual support for high school biological anthropology workshop, Greenfield public school system (ranged yearly)

FUNDING: TRAVEL GRANTS AND SUPPORT (10)

- 2018 Travel support, AZ State University
- 2017 Travel grant, UMASS Amherst
- 2016 Travel grant, UMASS Amherst
- 2015 Travel grant, Bruce Museum
- 2014 Travel grant, UMASS Amherst
- 2009 Travel grant, NC State University
- 2009 Study abroad scholarship, NC State University
- 2008 Travel grant, NC State University
- 2007 Study abroad scholarship, University of Arkansas
- 2006 Travel grant, University of Arkansas

CONFERENCE PRESENTATIONS WITH PUBLISHED ABSTRACTS (7)

- Holt BM, **Agostini G.** 2018. Limb bone diaphyseal structure reflects population relationships in a pan-European sample. *American Journal of Physical Anthropology*. *American Journal of Physical Anthropology* 165(S66):124. **Poster.**
- Agostini G.** 2018. Workload intensity and health during Portugal's corporatist *Estado Novo* as reflected by the skeleton. *American Journal of Physical Anthropology*. *American Journal of Physical Anthropology* 165(S66):6. **Poster.**
Symposia: *Structural violence in Industrial Era: A theoretical framework for the bioarchaeological analysis of social and socioeconomic inequality.* **Poster.**
- Agostini G,** Holt BM. 2017. Can diaphyseal (cross-sectional) properties of arm and leg bones detect among-population genetic relationships? *American Journal of Physical Anthropology* 162(S64):94. **Podium.**
- Agostini G,** Rasoazanabary E, Godfrey LR. 2016. Developmental shift or postnatal plasticity? Manual and pedal variation in two populations of *Microcebus griseorufus* at Bezà Mahafaly. *American Journal of Physical Anthropology* 159(S62):75. **Poster.**
- Agostini G,** Reedy S, Holt B, Ruff C, Tompkins D, Niskanen M, Sladek V, Berner M, Garvin H, Garofalo E, Schuplerova E, Hora M, Roman J. 2012. Age-related patterns in postcranial robusticity. *American Journal of Physical Anthropology* 147(S54):80. **Poster.**
Symposia: *On the verge of modernity: skeletal adaptation in recent Europeans*
- Agostini G.** 2011. Musculoskeletal stress markers and body mass index. *American Journal of Physical Anthropology* 144(S52):73. **Poster.**
- Agostini G.** 2010. The impact of weight on long bone cross-sectional geometry. *American Journal of Physical Anthropology* 141(S50):52. **Poster.**

ADDITIONAL PROFESSIONAL CONFERENCE PRESENTATIONS (9)

- Agostini G.** 2018. Lengths and diaphyses, but not joints, reflect among-population genetic relationships: a global study of limb bone variation. *Paleoanthropological Association.* **Poster.**

- Agostini G**, Kamilar JM. 2017. Phylogenetic signal in primate morphology. Northeastern Evolutionary Primatologists (NEEP) Conference. **Podium.**
- Agostini G**, Rasoazanabary E, Godfrey LR. 2015. Developmental shift or postnatal plasticity? Evidence of divergence in mouse lemurs (*Microcebus griseorufus*) from Bezà Mahafaly Bruce Museum of Natural History. **Podium.**
Symposia: Natural History of Madagascar
- Agostini G**. 2014. Place and population landscape: the impact of *Estado Novo* policies on behavior and health in working-class Lisbon. American Anthropological Association annual conference. **Podium.**
Symposia: Cultural Heritage in European Societies and Spaces: Celebrating 45 Years of Four-Field Europeanist Anthropology at the University of Massachusetts Amherst
- Agostini G**. 2011. Can femoral shape be used to estimate weight? American Academy of Forensic Sciences annual conference. **Poster.**
- Agostini G**. 2010. The impact of obesity on morphology of the femur. American Academy of Forensic Sciences annual conference. **Podium.**
- Agostini G**, Gomez E. 2009. Forensic anthropology academic and employment trends. American Academy of Forensic Sciences annual conference. **Poster.**
- Agostini G**. 2009. The effect of weight on the human skeletal system: compensatory remodeling of the proximal femur. NC State University research conference. **Poster.**
- Agostini G**, Gomez E. 2008. New standards of carpal measurements: a test of accuracy. NC State University research conference. **Poster.**

AWARDS AND NOMINATIONS

- 2014 Nat Smith Community Service Award, UMASS Amherst
- 2012 Nathalie F.S. Woodbury Distinguished Service Award for scholastic achievement and university service, UMASS Amherst
- 2011 Forensic Sciences Foundation Student Scholarship, American Academy of Forensic Sciences
- 2010-17 Teaching Assistantship including Tuition Award; UMASS Amherst (awarded annually for 8 years)
- 2010 The Richard B. Woodbury travel award for major conference presentation, UMASS Amherst
- 2009 Outstanding Teaching Assistant award nomination, NC State University
- 2009 Forensic Sciences Foundation Student Scholarship, American Academy of Forensic Sciences
- 2009 Outstanding Thesis award, The Graduate School, NC State University
- 2009 Outstanding Thesis award, College of Humanities and Social Sciences, NC State University
- 2007-9 Teaching Assistantship including Tuition Award; NC State University (awarded annually for 2 years)

INVITED LECTURES/PRESENTATIONS: PROFESSIONAL AUDIENCES (8)

- 2015 "Developmental shift or postnatal plasticity? Manual and pedal variation in *Microcebus griseorufus* at Bezà Mahafaly," UMASS Amherst Department of Veterinary and Life Sciences
- 2013 "Long bone variation and population history," University of Bologna, Italy
- 2012 "Place and population landscape," UMASS Amherst
- 2011 "Forensic anthropology employment prospects," UMASS Amherst Bioarchaeology and Forensic Anthropology program
- 2010 "Epigenetics and heritability," UMASS Amherst Department of Anthropology
- 2009 "How does 'real life' conflict affect 'in game' social dynamics (and vice versa)? My experiences with a large LARPing community in central North Carolina," NC State University
- 2008 "Forensic anthropology: The Bigger Picture," NC State University
- 2008 "Human osteology," NC State University

MEDIA/OTHER

- 2018 Forensics project "Forensic anthropology academic and employment trends" now part of "Forensic Anthropology: A Comprehensive Introduction" textbook by Natalie R. Langley and MariaTeresa A. Tersigni-Tarrant (2nd edition)
- 2017 "ASU researcher tells her fascination with femurs, tibias, and skeletons—all for serious research" KCOT Bulletin (newsletter for Kiwanis International)
- 2016 Thesis work now part of "Introduction to Forensic Anthropology" textbook by Steven N. Byers (5th edition)

- 2013 Forensics project "Forensic anthropology academic and employment trends" now part of "Forensic Anthropology: An Introduction" textbook by MariaTeresa A. Tersigni-Tarrant and Natalie R. Shirley
- 2012 "Bodybuilding: GHS students reconstruct human skeleton in UMASS summer workshop," Greenfield Recorder
- 2011 "A bone's telltale shape eases weight estimates," NY Times Science, interview
- 2010 "GHS kids dig anthropology class," Greenfield Recorder

TEACHING

TEACHING EXPERIENCE: STAND-ALONE INSTRUCTOR (13)

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|------|---|------------------------|------------------------------|
| 2018 | Community Partnerships for Global Health, Arizona State University
n Students: 17 (undergrad) | Course Type: Practicum | Evaluations on file? Pending |
| 2017 | Community Partnerships for Global Health (co-instructor), Arizona State University
n Students: 10 (3 grad, 7 undergrad) | Course Type: Practicum | Evaluations on file? Pending |
| 2017 | Human Origins and Variation, UMASS Amherst
n Students: 17 | Course Type: Online | Evaluations on file? Yes |
| 2016 | Written in Bone, First Year Experience Seminar, UMASS Amherst
n Students: 50 (3 sections, 16-17 each) | Course Type: Seminar | Evaluations on file? Yes |
| 2016 | Introduction to the Forensic Sciences, Holyoke Community College
n Students: 12 | Course Type: Lecture | Evaluations on file? Yes |
| 2016 | Ancient Civilizations (online), UMASS Amherst
n Students: 35 | Course Type: Online | Evaluations on file? Yes |
| 2015 | Written in Bone, First Year Experience Seminar, UMASS Amherst
n Students: 55 (3 sections, 18-19 each) | Course Type: Seminar | Evaluations on file? Yes |
| 2015 | Introduction to the Forensic Sciences, Holyoke Community College
n Students: 12 | Course Type: Lecture | Evaluations on file? Yes |
| 2015 | Introduction to the Forensic Sciences, Holyoke Community College
n Students: 12 | Course Type: Lab | Evaluations on file? Yes |
| 2015 | Ancient Civilizations, UMASS Amherst
n Students: 31 | Course Type: Online | Evaluations on file? Yes |
| 2015 | Introduction to the Forensic Sciences, Holyoke Community College
n Students: 11 | Course Type: Lecture | Evaluations on file? Yes |
| 2015 | Ancient Civilizations, UMASS Amherst
n Students: 31 | Course Type: Lecture | Evaluations on file? Yes |
| 2014 | Ancient Civilizations, UMASS Amherst
n Students: 34 | Course Type: Online | Evaluations on file? Yes |
| 2013 | Human Origins and Variation, UMASS Amherst
n Students: 30 | Course Type: Lecture | Evaluations on file? Yes |

TEACHING EXPERIENCE: TA (11)

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| 2014 | Human Origins and Variation, UMASS Amherst
n Students: 66 (3 sections, 22 each) | Course Type: Lab | Evaluations on file? Yes |
| 2014 | Problems in Anthropology (Writing and Critical Theory for Junior Majors), UMASS Amherst
n Students: 19 (3 sections, 3-8 each) | Course Type: Workshop | Evaluations on file? Yes |
| 2012 | Ancient Civilizations, UMASS Amherst
n Students: 63 (3 sections, 20-22 each) | Course Type: Lab | Evaluations on file? Yes |
| 2012 | Human Origins and Variation, UMASS Amherst
n Students: 66 (3 sections, 21-23 each) | Course Type: Lab | Evaluations on file? Yes |
| 2011 | Human Origins and Variation, UMASS Amherst
n Students: 66 (3 sections, 22 each) | Course Type: Lab | Evaluations on file? Yes |
| 2011 | Human Origins and Variation, UMASS Amherst
n Students: 66 (3 sections, 22 each) | Course Type: Lab | Evaluations on file? Yes |
| 2010 | Human Origins and Variation, UMASS Amherst
n Students: 66 (3 sections, 22 each) | Course Type: Lab | Evaluations on file? Yes |

2009	Introduction to Physical Anthropology, NC State University n Students: 90	Course Type: Lecture	Evaluations on file? No
2008	Introduction to Physical Anthropology, NC State University n Students: 90	Course Type: Lecture	Evaluations on file? No
2008	Introduction to Physical Anthropology, NC State University n Students: 90	Course Type: Lecture	Evaluations on file? No
2007	Introduction to Forensic Anthropology, NC State University n Students: 30	Course Type: Lecture	Evaluations on file? No

COMMUNITY ENGAGEMENT AND PUBLIC SERVICE (WORKSHOPS AND SHORT COURSES TAUGHT)

2017	Half-day workshop of skeletal biology for middle school students, Amherst MA		
2015	Half-day workshop on primate and human evolution for Montessori students, Amherst MA		
2014	Week-long workshop in biological anthropology for high school students, Greenfield MA		
2014	Four-week course on human evolution at Osher Lifelong Learning Institute, Pittsfield MA		
2013	Skeleton presentation and activity, Kitteridge Elementary School, Hinsdale MA		
2013	Week-long workshop in biological anthropology for high school students, Greenfield MA		
2013	Half-day workshop in biological anthropology, Beckett MA		
2012	Week-long workshop in biological anthropology for high school students, Greenfield MA		
2011	Week-long workshop in biological anthropology for high school students, Greenfield MA		
2011	Half-day workshop in human evolution for Montessori students, Amherst MA		
2010	Week-long workshop in biological anthropology for high school students, Greenfield MA		
2009	Daylong workshop in forensic anthropology for at-risk youth, Raleigh NC		
2008	Forensic anthropology assistant for "Discovery and Recovery" police training workshop, Raleigh NC		
2007	Forensic anthropology assistant for "Bugs, Bones and Botany" police training workshop, Raleigh NC		

SERVICE

INVITED LECTURES/PRESENTATIONS: PUBLIC AUDIENCES

2017	"Human evolution: past, present and future," invited talk, Tempe Rotary Club		
2017	"Our bodies, ourselves: how does body image change across the lifespan?" invited co-talk, Kyrene Rotary		
2017	"Meet the Ancestors," invited lecture, Entz Elementary School, Chandler AZ		
2017	"Primates and Ancestors," invited lecture, Entz Elementary School, Chandler AZ		
2017	"Life history and the human skeleton," invited talk, Kiwanis Club of Tempe		
2014	Presentation on forensic anthropology for international high school students, Pittsfield MA		
2010	Presentation on biological anthropology for elementary school children, Beckett MA		
2010	Presentation on forensic anthropology for high school students, Greenfield MA		
2009	Presentation on forensic anthropology for students identified as "at risk," Raleigh NC		

SERVICE (PEER REVIEW)

2013-8	Peer Reviewer, American Journal of Human Biology (5 reviews given to date)		
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SERVICE (DEPARTMENTAL OR FOR FIELD)

2018	Assisted with preparation and operation of the 2018 Society for Economic Anthropology Annual Conference on Water and Economy, Arizona State University		
2016-7	Oversaw 3-to-4 credit conversion and quinquennial review for "Human Ecology" (Anth.208)		
2015	Mentor for incoming graduate students		
2015	Committee to restructure M.A. program, UMASS Amherst		
2014-5	Mentor for undergraduate independent studies		
2014	Job Search Committee (Primatology Hire)		
2012, 14	Faculty Committee Representative, Anthropology Graduate Caucus		
2011	Vice chair, Anthropology Graduate Caucus		
2011	Native American Graves Protection and Repatriation Act (NAGPRA) assistant, osteological identification; UMASS Amherst		
2010	Graduate student representative for university 5-year "Academic Quality Assessment and		

- Development" report
- 2010,11 Graduate Employee Organization (GEO) Steward, Anthropology Graduate Caucus
- 2010,11 Faculty Committee Representative, Anthropology Graduate Caucus
- 2009 Undergraduate Mentor Coordinator, UMASS Amherst
- 2009 Colloquium Support Position, UMASS Amherst

MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

- 2009- American Association of Physical Anthropologists (AAPA)
- 2017- Paleoanthropological Society
- 2013- American Anthropological Association (AAA)
- 2011-13 Graduate Women in Science (GWIS)
- 2008-10 Association for Women in Science (AWIS)
- 2007-11 American Academy of Forensic Sciences (AAFS)

TECHNICAL SKILLS AND OTHER EXPERIENCE

RELEVANT NONDEGREE EXPERIENCE

- 2014 Completed the "Culture and Heritage in European Societies and Spaces" (CHESS) four-field, field research training program (NSF OISE-0968575), UMASS Amherst
- 2009 Completed Bioarchaeological field training at excavation of Iron Age temple site in Lopburi Province, Thailand
- 2007-9 Forensic Anthropology casework assistant, NC State University, Raleigh, NC
- 2007 Certified French language proficiency, Advanced Competency, Centre de Linguistique Appliquée, Besançon, France
- 2006-7 Forensic Anthropology undergraduate intern, University of Arkansas, Fayetteville, AR
- 2006-7 Practicing veterinary technician (treatment technician: orthopedics, surgery, radiology, and postsurgical rehabilitation), Rogers, AR
- 2005-6 Completed archaeological field project (cemetery documentation and report), University of Arkansas, Fayetteville, AR
- 2002-6 Management at several large retail chains, Raleigh, NC and Fayetteville, AR

RECENT WORKSHOPS ATTENDED

- 2018 **3D Morphology with open source software**, American Association of Physical Anthropology annual meetings
- 2018 **Open forum on the development of a formal AAPA mentoring program**, American Association of Physical Anthropology annual meetings
- 2018 **Responsible conduct in research: Publication practices and responsible authorship**, Research Academy, Arizona State University
- 2018 **Survey question writing**, Institute of Social Science Research, Arizona State University
- 2017 **Proposal development workshop: Finding opportunities**, Research Academy, Arizona State University
- 2017 **Research development—National Science Foundation**, Research Academy, Arizona State University
- 2017 **NSF: Division of Biological Infrastructure (DBI)**, National Science Foundation (online)
- 2017 **Proposal development workshop: Landscape analysis**, Research Academy, Arizona State University
- 2017 **Qualitative analysis (working in MAXQDA)**, Institute of Social Science Research, Arizona State University
- 2017 **Content analysis (working in MAXQDA)**, Institute of Social Science Research, Arizona State University

SITES OF DATA COLLECTION (INTERNATIONAL)

- Museum Victoria**, Melbourne, Australia (*scheduled for 2019*)
- Australia Museum**, Sydney, Australia (*scheduled for 2019*)
- Leverhulme Center for Human Evolutionary Studies**, Cambridge, England

University of Sheffield, Sheffield, England
Archaeological Services, Florence (Scandicci), Italy
Museo Archeologico, Grosseto/Roselle, Italy
Università di Bologna, Bologna, Italy
Museu Bocage de História Natural, Lisbon, Portugal
Ditsong National Museum of Natural History, Pretoria, South Africa
University of Cape Town, Cape Town, South Africa
University of Pretoria, Pretoria, South Africa
University of Witwatersrand, Johannesburg, South Africa
University of Stellenbosch, Tygerberg, South Africa
Lopburi Field Site, Lopburi Province, Thailand

SITES OF DATA COLLECTION (DOMESTIC)

American Museum of Natural History, New York, NY
Cleveland Museum of Natural History, Cleveland, OH
Bass Donated Skeletal Collection, University of TN, Knoxville, TN
Museum of Comparative Zoology, Harvard University, Cambridge, MA
Natural History Collection, University of MA, Amherst, MA
Phoenix Valley, Phoenix, AZ
Field Museum, Chicago, IL (*scheduled for 2019*)
University of Michigan Museum of Zoology, Ann Arbor, MI (*scheduled for 2019*)

TECHNICAL PROFICIENCIES

Statistical Platforms: R (statistical operations, loops, visuals, phylogenetic tests) using RStudio, SPSS, Excel
3D Morphometrics using microscribe or HDI structured light 3D scanner: MorphoJ, Meshlab, Geomorph (R package), Flexscan, IDAV Landmark Editor
Population Genetics/Phylogenetics/Phylogenetic Signal: caper/ape/geiger/phytools (R packages), PAUP 4.0, Figtree, RMET 5.0
Photoediting: ImageJ (with BoneJ plugin), Photoshop (with and without Wacom tablet)
Qualitative Data Collection: Amazon's Mechanical Turk, Survey Monkey (premium and advanced features)
Qualitative Data Analysis: MAXQDA
Teaching Platforms: Moodle, Blackboard