

# Gwen Robbins Schug

## Curriculum Vitae

Department of Anthropology  
Appalachian State University  
320a Anne Belk Hall  
224 Joyce Lawrence Lane  
Boone, NC 28608

336-207-2744  
Robbinsgm@appstate.edu  
<http://www.appalachianbioanth.org>  
[@3dOsteology](https://www.facebook.com/FASC.ASU)

### EDUCATION

- 2007      Ph.D. Biological Anthropology  
            University of Oregon  
            Dissertation: *Population Dynamics, Growth and Development in Chalcolithic Sites of the Deccan Plateau, India*
- 2000      M.S. in Anthropology  
            University of Oregon  
            Master's Thesis: *Dental Histology and Age Estimation in Mesolithic India*
- 1998      B.S. in Anthropology (with departmental honors)  
            University of Oregon  
            Honor's Thesis: *Discrete Traits as a Measure of Biological Distance In Gujarat, India*

### ACADEMIC APPOINTMENTS

- 2013      Associate Professor  
            Department of Anthropology  
            Appalachian State University, Boone, NC
- 2007      Assistant Professor  
            Department of Anthropology  
            Appalachian State University, Boone, NC
- 2006      Visiting Assistant Professor  
            Department of Anthropology  
            Appalachian State University, Boone, NC

### FIELDS OF SPECIALIZATION

Bioarchaeology | paleopathology | human-environmental interactions | climate and socio-cultural change | South Asia

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**PUBLICATIONS****Refereed journal articles****(\* denotes undergraduate student collaborator; \*\* graduate student collaborator)**

Bertrand B, **G Robbins Schug**, T Collard, S Naji, \*\* C Polet (in press) Age-at-death-estimation in pathological individuals. A complementary approach using teeth cementum annulations. *Int J Paleopathol*. Early View. DOI: 10.1016/j.ijpp.2014.04.001 1879-9817/. 26 Apr 2014

**Robbins Schug G**, H Goldman (2014) Birth is but our death begun: A bioarchaeological assessment of skeletal emaciation in immature human skeletons in the context of environmental, social, and subsistence transition. *Am J Phys Anthropol*. 155(2):243-259.

**Robbins Schug G**, \*KE Blevins, \*B Cox, \*\*KM Grey, V Mushrif (2013) Infection, disease, and biosocial process at the end of the Indus civilization. *PLOS ONE* 0084814.

**Robbins Schug G**, S Gupta, LW Cowgill, PW Sciulli, \*\*S Blatt (2013) Panel regression formulas for stature and body mass estimation in immature human skeletons. *J Archaeol Sci* 40 (7):3076-3086.

**Robbins Schug G**, \*KM Grey, V Mushrif, AR Sankhyan (2012) A peaceful realm? Trauma and social differentiation at Harappa. *Int J Paleopathol* 2 (2-3):136-147.

**Robbins Schug G**, \*\* E Brandt, JR Lukacs (2012) Cementum annulations, age estimation, and demographic dynamics in a mid-Holocene cemetery, India. *Homo* 63 (2):94-109.

Sankhyan AK, **G Robbins Schug** (2011) First evidence of brain surgery in Bronze Age Harappa. *Curr Sci* 100 (11):16-21.

**Robbins G** (2011) Don't throw out the baby with the bathwater: estimating fertility from subadult skeletons. *Int J Osteoarchaeol* 21(6):717-722.

**Robbins G**, PW Sciulli, \*\* S Blatt (2010) Estimating body mass in subadult human skeletons. *Amer J Phys Anthropol* 143(1):146-150.

Dixon K, S Novak, **G Robbins**, J Schablitsky, R Scott, G Tasa (2010) Men, women, and children are starving: Archaeology of the Donner family camp. *Amer Antiq* 75(3):627-656.

**Robbins G**, V Mushrif, VN Misra, RK Mohanty, VS Shinde, \* KM Gray, MD Schug (2009) Ancient skeletal evidence for Leprosy in India (2000 B.C.). *PLOS ONE*:e5669.

**Robbins G**, V Mushrif, VN Misra, RK Mohanty, VS Shinde (2007) Adult skeletal material from Balathal: A full report and inventory. *Man and Environ* XXXII(2: December):1-26.

**Robbins G**, V Mushrif, VN Misra, RK Mohanty, VS Shinde (2006) Biographies of the Skeleton: Pathological Patterns at Balathal. *Man and Environment* XXXI(2: December):150-165.

### Books

Lukacs JR, JN Pal, MC Gupta, VD Misra, GC Nelson, **G Robbins Schug** (2016) *Holocene Foragers of North India: The Bioarchaeology of Mesolithic Damdama*. Oxford: British Archaeological Reports.

**Robbins Schug G** (2011) *Bioarchaeology and climate change: a view from South Asian prehistory*. Gainesville: University Press of Florida [Bioarchaeological Interpretations of the Human Past: Local, Regional, and Global Perspectives, Clark Larsen (series editor)].

**Robbins G**, VD Misra, JN Pal, MC Gupta (2004) *Mesolithic Damdama: Dental Histology and Age Estimation*. India: Allahabad University Press.

### Edited Volumes

**Robbins Schug G**, SR Walimbe, eds. (2016) *A Companion to South Asia in the Past*. Boston: Wiley-Blackwell.

### Book Chapters

**Robbins Schug G** (in press) A Hierarchy of Values: The Bioarchaeology of Order, Complexity, Health and Hierarchy at Harappa. In: Klaus H, AR Harvey, MN Cohen, eds. *Bones of Complexity: Osteological indicators of emergent heterarchy and hierarchy*. Gainesville: UPF. TBD.

**Robbins Schug G**, \*\*KE Blevins (2016) The Center Cannot Hold: A Bioarchaeology of Environmental Crisis in the Second Millennium BCE, South Asia. In: G Robbins Schug, SR Walimbe, eds. *A Companion to South Asia in the Past*. Wiley-Blackwell. Pp 255-273.

**Robbins Schug G**, \* KM Gray (2011) What Remains: bone histology and identification of a starvation diet. In: *An Archaeology of Desperation: Exploring the Donner Party's Alder Creek Camp*. Dixon K, J Schablitsky, S Novak, eds. Norman: UOP. Pp 157-177.

### Other Contributions (not peer reviewed)

**Robbins Schug G** (forthcoming). ONLINE LEARNING MODULE FOR POST-GRADUATE EDUCATION: The Deccan Chalcolithic. Ravi Korisettar, Ed. Indian Culture Panel: Pre and Proto-history of India. E-Pathasala programme, Govt. of India.

**Robbins Schug G** (2015) BOOK REVIEW: *Embattled Bodies, Embattled Places: War in Pre-Columbian Mesoamerica and the Andes*. Andrew K. Scherer and John W. Verano, Eds. Cambridge, MA: Harvard University Press, 2014. 432 pp. *Amer Anthropol* xx(x):TBD.

**Robbins Schug G** (2014) BOOK REVIEW: *Tracing Childhood: Bioarchaeological Investigations of Early Lives in Antiquity*. Edited by Jennifer L. Thompson, Marta P. Alfonso, and John J. Crandall. 2014. Gainesville, FL: University Press of Florida. 270 pp. *Am J Hum Biol* 26(6):869-870.

**Robbins Schug G** (2013) BOOK REVIEW: *The Bioarchaeology of Individuals*. Eds. Ann Stodder and Ann Palkovich. 2012. Orlando: UPF. 287 pp. *Am J Phys Anthropol* 152(3):429.

**Robbins Schug G, Lappan S** (2013) *Our Primate Heritage Lab Manual*. Dubuque: Kendall Hunt.

## AWARDS AND HONORS

- 2016 Nominated for Outstanding Advisor
- 2015 Nominated for Donald Sink Senior Research Award
- 2010 William C. Strickland Outstanding Young Faculty Research Award, College of Arts and Sciences, Appalachian State University.
- 2004 Homer Barnett Distinguished Teaching Fellowship, Anthropology Department, University of Oregon
- 2003 George Franklin Dales Scholarship, George Franklin Dales Foundation
- 2003 Cressman Prize for Student Research Paper, University of Oregon Anthropology Department
- 1999 Graduate Research Fellowship Award, Honorable Mention, NSF

## GRANTS AND RESEARCH FELLOWSHIPS

- 2010 Fulbright-Nehru Senior Research Fellowship, United States India Educational Foundation
- 2004 Junior Research Dissertation Fellowship, American Institute of Indian Studies

- 2003      Scholarship, George Franklin Dales Foundation
- 2001      Fulbright Student Research Fellowship, United States India Educational Foundation
- 2000      Graduate Student Research Award, Graduate School, University of Oregon

### INVITED TALKS

- 2016      *The Center Cannot Hold: Bioarchaeology, Climate Change, and the Experience of Resilience in Late Holocene of South Asia*. Bournemouth University, UK. May 24, 2016.
- 2016      *The Center Cannot Hold: Bioarchaeology, Climate Change, and the Experience of Resilience in Late Holocene of South Asia*. SUNY Binghamton, NY. April 29, 2016.
- 2016      Keynote Speaker: *Reconciling Health and Stress in Paleopathology*. Paleopathology Association Student Group Luncheon, Paleopathology Meetings, Atlanta. April, 2016.
- 2013      *A Hierarchy of Values: Order, complexity, and agency at Harappa*. CUNY Graduate Center, NYC. November, 2013.
- 2012      *Age estimation and Human Variation*. Khon Kaen University, Thailand. January, 2012.
- 2011      *Bioarchaeology and Climate Change: the Deccan Chalcolithic*. Asiatic Society, Kolkata, India. December, 2011.
- 2011      *Bioarchaeology and Climate Change*. St. Anthony's College, Shillong, India. May, 2011.
- 2011      *Bioarchaeology and Climate Change*. Calcutta University, Kolkata, India. April, 2011.
- 2011      *Bioarchaeology and Climate Change*. Heritage Institute of Technology, Kolkata, India. March, 2011.
- 2010      *Birth is but our death begun*. UNC Chapel Hill, North Carolina. January, 2010.
- 2010      *What Remains at the Donner Party's Alder Creek Camp*. UNC Chapel Hill, North Carolina. January, 2010.
- 2009      *Birth is but our death begun: bioarchaeology in the second millennium B.C., India*. Department of Anthropology, McMaster University. March, 2009.

## CONFERENCE PARTICIPATION

### Symposia and Panels Organized

- 2014      **Robbins Schug G**, Hutchinson D. *Osteology in the Carolinas Research Symposium*. UNC Chapel Hill. February, 8 2014.
- 2014      Williams K, Gregoricka L, **Robbins Schug G**. *Archaeology, Death, and Change in Ancient Arabia*. Society for American Archaeologists, 79<sup>th</sup> annual meeting in Austin, Texas. April, 2014.
- 2013      **Robbins Schug G**, Halcrow S. *Environmental Change and Past Human Responses: human-environmental interactions inscribed on the skeleton*. Society for American Archaeologists, 78<sup>th</sup> annual meeting in Honolulu, HI. April, 2013.
- 2012      **Robbins Schug G**. *Interdisciplinary Research in Anthropology*. International Conference of the American Statistical Association, 8<sup>th</sup> annual meeting in Greensboro, NC. February, 2012.

### Recent Conference Papers Presented (since 2007)

(\* indicates undergraduate student collaborator; \*\* indicates graduate student collaborator)

- 2016      **Robbins Schug G**. *Begotten of Corruption? Climate change, crisis, and stigmatization of leprosy in the second millennium BCE, South Asia*. Royal Anthropological Institute conference in London, UK.
- 2015      **Robbins Schug G**. *Crisis, Disruption, and “Othering” in the Indus Age of South Asia*. American Anthropological Association annual meeting in Denver, CO.
- 2015      **Robbins Schug G**. *Climate Change and Crisis in the Indus Age of South Asia*. Osteology in the Carolinas annual meeting in Greensboro, NC.
- 2014      **Robbins Schug G**. *Contingencies of Climate: environmental migration in Late Holocene South Asia and the biocultural impacts of staying behind*. European Association of Archaeologists annual meeting in Istanbul, Turkey.
- 2014      **Robbins Schug G**, \*Blevins KE. *Begotten of Corruption: Leprosy and high rates of infection at the end of the Indus Age*. American Association of Physical Anthropologists, 83<sup>rd</sup> annual meeting in Calgary, Canada. (AJPA 156(S60):222).
- 2014      Cowgill L, \*\*Johnson R, Hamrick M, **Robbins Schug G**. *Biomechanical perspectives on starvation and malnutrition in immature individuals*. American Association of Physical Anthropologists, 83<sup>rd</sup> annual meeting in Calgary, Canada.

- (AJPA 156 (S60):99).
- 2014 **Robbins Schug G.** *A Hierarchy of Values: Order, complexity, and agency at Harappa.* Society for American Archaeologists. 79<sup>th</sup> annual meeting in Austin, TX.
- 2014 **Robbins Schug G.** *Leprosy and Social Change in the Past.* Osteology in the Carolinas annual meeting in Chapel Hill, NC.
- 2013 \*Gray KM, **Robbins Schug G.** *Leprosy and the Indus Civilization.* International Union of Anthropology and Ethnology Society (IUAES), 17<sup>th</sup> World Congress in Manchester, UK.
- 2013 **Robbins Schug G.** *Filling in the holes: subsistence transition, skeletal emaciation, and compact bone histology.* International Union of Anthropology and Ethnology Society (IUAES), 17<sup>th</sup> World Congress in Manchester, UK.
- 2013 **Robbins Schug G,** Bertrand B, Collard T, Naji S, \*\*Polet C. *Age-at-death-estimation in pathological individuals. A complementary approach using teeth cementum annulations.* American Association of Physical Anthropologists, 82<sup>nd</sup> annual meeting in Knoxville, TN. (AJPA 150 S56:233).
- 2013 \*Blevins KE, \*Cox B, **Robbins Schug G.** *The violence of everyday life: pathology, trauma, and community membership at Harappa.* American Association of Physical Anthropologists, 82<sup>nd</sup> annual meeting in Knoxville, TN. (AJPA 150 S56:83).
- 2013 **Robbins Schug G.** *Climate Change, Social Suffering, and Collapse: A view from Harappa.* Society for American Archaeologists, 78<sup>th</sup> annual meeting in Honolulu, HI.
- 2012 **Robbins Schug G.** *Leprosy and the Indus Civilization.* European Paleopathology Association, annual meeting in Lille, France.
- 2012 **Robbins Schug G.** *Peaceful for whom? Bioarchaeological perspectives on violence and subjectivity.* Society for American Archaeologists, 77<sup>th</sup> annual meeting in Memphis, TN.
- 2011 **Robbins Schug G.** *The Laughing Harappans: myth and the legacy of structural violence.* American Anthropological Association, 110<sup>th</sup> annual meeting in Montreal, Canada.
- 2011 **Robbins Schug G.** *Bioarchaeology and Climate Change: a view from South Asian prehistory.* American Association of Physical Anthropologists, 80<sup>th</sup> annual meeting in Minneapolis, MN. (AJPA 144 S52:108).
- 2010 **Robbins Schug G.** *Human versus non-human: the burned, fragmentary osseous assemblage from the Donner party campsite.* American Association of Physical Anthropologists, 79<sup>th</sup> annual meeting in Albuquerque, NM. (AJPA 141 S50:206).

- 2009 **Robbins G**, Cowgill LW. *Bayesian Approaches to Measuring Body Mass in Subadults from Kulubnarti, Grasshopper Pueblo, and Inamgaon*. American Association of Physical Anthropologists, 78<sup>th</sup> annual meeting in Chicago, IL. (AJPA 138 S48:314).
- 2008 **Robbins G**. *Resolving Stressful Relationships in Prehistory: macroscopic and histological indicators of growth disruption in subadult long bones*. American Association of Physical Anthropologists, 77<sup>th</sup> annual meeting in Columbus, OH. (AJPA 135 S46:181).
- 2007 **Robbins G**. *Saving the Babies from the Bathwater: a new method for paleodemography in subadult samples*. American Association of Physical Anthropologists, 76<sup>th</sup> annual meeting in Philadelphia, PA. (AJPA 132 S44:201).

## FIELD RESEARCH EXPERIENCE

- Ongoing Bioarchaeology and the Anthropology of Climate Change
- Ongoing Evolution of *Mycobacterium leprae* in Prehistoric Human Populations.
- 2014 Environmental Change and Skeletal Emaciation in the Immature Skeletons from Inamgaon. Deccan College and Post-Graduate Research Institute, Pune, India.
- 2013 Immature Human Femur Midshaft Geometry and Histology Project
- 2011 Bioarchaeology of Harappa: Research and Training (BHaraT) project, Anthropological Survey of India, Kolkata, India.
- 2006 Identification of a Starvation Diet in the Donner Party: the Alder Creek Campsite, University of Oregon and Appalachian State University.
- 2004 Population Dynamics, Growth and Development in Chalcolithic Sites of the Deccan Plateau, India (Dissertation Research), Deccan College Post-Graduate research Institute, Pune, India.
- 2001 Population Dynamics, Growth and Development in Chalcolithic Sites of the Deccan Plateau, India (Dissertation Research), Deccan College Post-Graduate research Institute, Pune, India.
- 2000 Bioarchaeology of Balathal, an Indus Outpost in Rajasthan, India.

## TEACHING EXPERIENCE



**Appalachian State University (Boone, NC)**

Bioarchaeology (S 2007 – 2013; F 2014- present)  
 Biological Anthropology (F, S 2006 - present)  
 Evolution of Human Reproduction (S 2009)  
 Forensic Anthropology (S 2015-present)  
 Forensic Taphonomy (F 2008)  
 Human Biological Variation (F 2008 - 2010)  
 Human Evolution (S 2008 - present)  
 Human Osteology (F 2006 - present)  
 Our Primate Heritage (F, S 2009)  
 Paleoanthropology of South Asia (S 2007 – 2011; F 2014-present)  
 Paleopathology (S 2015-present)

**2004-2005 University of Oregon (Eugene, OR)**

Instructor of record for Human Growth and Development; Bioarchaeology; University of Oregon-American Samoa Community College Archaeological Field School

**SERVICE TO PROFESSION****STEM Outreach Activities and Community Involvement**

2010 – 2016 Forensic Anthropology Summer Camp Experience  
 (STEM Outreach, targeting 15-18 year old high school students)  
 2015 – 2016 Science, Science Everywhere (UNCG Science Festival)  
 2015 STEAM Expo (ASU Science Outreach for Middle School Students)  
 2014 Lecture for High Country Life Long Learners at Harrill Senior Center, Boone  
 2013 Lincoln Middle School and Gifted Elementary Program—Career Day  
 2012 – 2014 First Lego League Robotics team (STEM outreach for 5<sup>th</sup> and 6<sup>th</sup> graders)  
 2012 – 2014 Lindley Elementary School—The Human Skeleton  
 2010 Mountain Pathways School—Evolution Short Course  
 2009 Boone Public Library—Misconceptions of Evolutionary Theory  
 2007 Hartley Cemetery Project—osteological identifications

**Service to the Discipline**

2016 – 2020 Editorial Board: Bioarchaeology International (Journal published by UPF)  
 2013 – 2015 3d Osteology: Online Teaching Resource (project director)  
 2010 – 2014 NSF Graduate Research Fellowship Program (panel chair in 2013 before epanel)  
 2005 – 2015 Peer reviewer  
 Grants: National Science Foundation, Social Science and Humanities Research  
 Council of Canada, European Research Council, French National

Research Agency, Royal Society of New Zealand Marsden Research Award

Journal articles: American Journal of Physical Anthropology, Anthropologischer Anzeiger, Homo—Journal of Comparative Human Biology, International Journal of Osteoarchaeology, International Journal of Paleopathology, Journal of Anthropological Archaeology, Journal of Archaeological Science, Journal of the Royal Anthropological Institute, Man and Environment, PLOS ONE, Quaternary International

Book proposals and Manuscripts: Wiley-Blackwell, Springer, University Press of Florida, Pearson

### Service to the University

- 2014 – 2016 University Research Award, Review Panel for Social Science Awards
- 2014 – 2016 University Research Council, Social Science Representative
- 2014 – 2016 Donald Sink Senior Research Award, Review Panel Member (recused in 2015)
- 2013 – 2016 University Forum Committee for Organizing External Speakers
- 2009 – 2015 Science Inquiry Faculty Curriculum Committee
- 2010 – 2013 Life, Earth, and Evolution Theme Coordinator for General Education
- 2006 – 2010 Dewel-CAS Microscopy Facility Advisory Committee
- 2009 Official Host and Visit Organizer for Eugenie Scott (NCSE)
- 2008 Attended the Association of American Colleges and Universities Conference on Engaging Science and Advancing Learning in General Education
- 2007 – 2009 Darwin Day Speaker Series Organizing Committee
- 2007 – 2008 Core Curriculum Committee
- 2007 NC State Undergraduate Education Assessment Conference.

### Service to the Department

- 2015 – 2016 Search Committee for Anthropology Department Chair (chair)
- 2014 – 2016 Department Personnel Committee
- 2014 – 2015 Packed and moved the Human Skeletal Biology Lab
- 2014 – 2015 Searched for Biological Anthropology Adjunct Faculty
- 2014 – 2015 Search Committee for Cultural Anthropology Faculty (member)
- 2013 – 2016 Promotion and Tenure Committee
- 2013 – 2016 Post-Tenure Review Committee
- 2013 – 2014 Lab and furniture committee (to equip our remodeled space)
- 2012 NC School of Math and Science student recruitment activities
- 2012 Search committee for Biological Anthropology Visiting Assistant Professor (chair)
- 2012 Search committee, Administrative Assistant for the Department of Anthropology
- 2012 Organized research visits by Dr. S.R. Walimbe and Dr. V. Mushrif-Tripathy
- 2012 Program Assessment Committee Coordinator
- 2011 Tenure and Promotion Guideline Development Committee
- 2011 – 2012 Department Personnel Committee (Alternate)
- 2010 Search committee for Biological Anthropology Assistant Professor (chair)

- 2009 Search committee for Biological Anthropology Visiting Assistant Professor (chair)
- 2009 Department five-year plan committee
- 2009 Organized external speaker: Dr. John Lukacs (University of Oregon)
- 2007 – 2009 Department Personnel Committee
- 2007 – 2008 Developed and implemented new Biological Anthropology Curriculum
- 2007 Cultural Anthropology Faculty Search Committee
- 2007 – 2010 Open House
- 2006 – 2010 Anthropology Department Curriculum Committee

### SELECTED MEDIA COVERAGE (Since 2007)

- 2014 Media coverage of my research on Paleopathology in the Indus Civilization featured on *Science Daily*, *Times of India*, and other media outlets.
- 2013 Interviewed for *National Geographic Online Daily News Magazine* "Surprising Discoveries from the Indus Civilization" by Traci Watson, April 29, 2013.
- 2012 Interviewed for *Science Magazine* "The Battle Over Violence" by Andrew Lawler, Vol. 336: 829-830. (Special issue on Violence and 'Human Nature')
- 2012 Interviewed for *Anthropology News* (American Anthropological Association Newsletter) "South Asian Bioarchaeology: Human Environmental Interaction and Paleopathology in the Indus Civilization" by Ritu Kumar, April 30, 2012
- 2012 Research on Violence at Harappa covered by John Hawk's Web blog (May 1, 2012), Archaeology News Network (April 29, 2013), and other media outlets.
- 2010 Studies of Donner Party cannibalism featured in *Discovery News*, *LA Times*, *Huffington Post*, *NBC News*, *Eureka*, *Science Daily*, and news outlets worldwide.
- 2009 Studies of ancient leprosy in India featured in *Science News*, *Science Daily*, *New York Times*, *MSNBC news*, and over 250 other news outlets worldwide.

### PROFESSIONAL MEMBERSHIPS

American Anthropological Association  
 American Association of Physical Anthropologists  
 Dental Anthropology Association  
 European Association of Archaeologists  
 Indo-Pacific Prehistory Association  
 Paleopathology Association  
 Royal Anthropological Institute of Great Britain and Ireland (Fellow)  
 Sigma Xi (associate member)  
 Society for American Archaeology  
 Society for the Study of Childhood in the Past  
 South-East Asian Bioarchaeologists

### PROFESSIONAL REFERENCES

**Dale Hutchinson**

Professor  
Department of Anthropology  
University of North Carolina, CH  
201C Alumni Building, CB#3115  
Chapel Hill, NC 27599  
Phone: 919-962-1613  
Email: dhutchin@email.unc.edu

**Clark Larsen**

Distinguished Professor  
Department of Anthropology  
The Ohio State University  
4034 Smith Laboratory  
174 West 18<sup>th</sup> Avenue  
Columbus, OH 43210  
Phone: 614-292-4149  
e-mail: Larsen.53@osu.edu

**Debbie Guatelli-Steinberg**

Professor  
Department of Anthropology  
The Ohio State University  
244 Lord Hall  
124 W. 17th Ave.  
Columbus, OH 43210  
Phone: 614-292-9768  
e-mail: Guatelli-Steinbe.1@osu.edu