

# Kate M. Lesciotto

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## Education

- 2020** **Ph.D.**, *Pennsylvania State University*, State College, PA  
(Anticipated) Anthropology, Advisor: Joan T. Richtsmeier  
Dissertation title: *Dissecting the effect of encephalization on skull morphogenesis*
- 2015** **M.S.**, *Mercyhurst University*, Erie, PA  
Forensic and Biological Anthropology, Advisor: Heather M. Garvin  
Thesis title: *A geometric morphometric analysis of prognathism and the gnathic index*
- 2009** **J.D.**, *Washington University in St. Louis*, St. Louis, MO  
Law; *Magna cum laude*, *Order of the Coif*
- 2004** **B.S.**, *Colorado State University*, Fort Collins, CO  
Major: Biological Science, Zoology; Minor: Biomedical Science; *Summa cum laude*

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## Work Experience

- 2015–** **Graduate Fellow**, *Anthropology*, Pennsylvania State University, State College, PA
- Graduate Student Lab Manager, Richtsmeier Laboratory (2018 - Present)
  - Research Assistant, Richtsmeier Laboratory (2016 - Present)
- 2014–2015** **Graduate Assistant**, *Applied Forensic Sciences*, Mercyhurst University, Erie, PA
- 2009–2014** **Associate Attorney**, *Leydig, Voit & Mayer, Ltd.*, Chicago, IL

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## Teaching Experience

- 2019** **Instructor**, *Biology*, Pennsylvania State University, State College, PA
- Biology 129: Mammalian Anatomy (Summer 2019)
- 2018** **Teaching Assistant**, *Biology*, Pennsylvania State University, State College, PA
- Biology 473: Mammalian Physiology Laboratory (Spring 2018)
  - Biology 497: Human Cadaver Dissection (Summer 2018)
  - Biology 497: Advanced Human Anatomy: Cadaver Lab (Fall 2018)
- 2016–2017** **Teaching Assistant**, *Anthropology*, Pennsylvania State University, State College, PA
- Anthropology 022: Humans as Primates (Fall 2016; Spring 2017)
  - Anthropology 597A: Human Gross Anatomy (Summer 2016)
- 2014–2015** **Teaching Assistant**, *Applied Forensic Sciences*, Mercyhurst University, Erie, PA
- Anthropology 120: Introduction to Physical Anthropology (Spring 2015)
  - Anthropology 326: Human Osteology (Spring 2015)
  - Anthropology 500: Basics of Forensic Anthropology (Fall 2014)
  - Anthropology 520: Fragmentary Human Osteology (Fall 2014)
  - Anthropology 528: Human Biological Profile - Age (Winter 2015)
  - Biology 537: Human Gross Anatomy Lab (Summer 2015)
  - Short Course: Identification of Human Skeletal Remains (Summer 2015)
  - Short Course: Interpretation of the Mass Fatality Scene (Summer 2015)

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## Professional Societies and Activities

- Member** Human Anatomy & Physiology Society (2018-Present)  
American Association for Anatomy (2015-Present)  
Society for Craniofacial Genetics and Developmental Biology (2015-Present)  
American Association of Physical Anthropologists (2014-Present)  
American Academy of Forensic Sciences (2013-Present)
- Committees** Ambassador Committee, American Association for Anatomy (2019 – )  
Co-Chair, Young Forensic Scientists Forum, AAFS (2014-2015)
- Reviewer** *Folia Primatologica* (1); *Journal of Anatomy* (1)  
( ) indicates number of manuscripts reviewed

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## Peer-Reviewed Publications

- Submitted** Richtsmeier JT and **Lesciotto KM**. From phenotype to genotype and back again. **Bulletins et Mémoires de la Société d'Anthropologie de Paris**.
- 2019** **Lesciotto KM** and Richtsmeier JT. Craniofacial skeletal responses to encephalization: How do we know what we think we know? **American Journal of Physical Anthropology** 168(S67):27-46.
- 2018** **Lesciotto KM** and Doershuk LJ. Effect of age on nonmetric cranial traits in adults. **Forensic Anthropology** 1(3):150-159.
- 2018** **Lesciotto KM** and Doershuk LJ. Accuracy and reliability of the Klaes et al. (2012) morphoscopic pelvic sexing method. **Journal of Forensic Sciences** 63(1):214-220.
- 2018** **Lesciotto KM**, Heuzé Y, Jabs EW, Bernstein JM, and Richtsmeier JT. Choanal atresia and craniosynostosis: development and disease. **Plastic and Reconstructive Surgery** 141(1):156-168.
- 2016** **Lesciotto KM**, Cabo LL, Garvin HM. A morphometric analysis of prognathism and evaluation of the gnathic index in modern humans. **HOMO – Journal of Comparative Human Biology** 67(4):294-312.
- 2015** **Lesciotto KM**. The impact of *Daubert* on the admissibility of forensic anthropology expert testimony. **Journal of Forensic Sciences** 60(3):549-555.
- 2008** **Lesciotto KM**. KSR: Have gene patents been KO'D-the non-obviousness determination of patents claiming nucleotide sequences when the prior art has already disclosed the amino acid sequence. **Washington University Law Review** 86(1):209-240.

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## Published Abstracts, Posters, and Proceedings

- 2019** **Lesciotto KM**, Perrine SM, Kawasaki M, Stecko T, Ryan TM, Kawasaki K, Richtsmeier JT. Three-dimensional visualization of soft tissues in embryonic and early postnatal mice using phosphotungstic acid enhanced microCT. Poster presentation at the 2019 Annual Meeting of Experimental Biology, American Association of Anatomists Section, Orlando, FL. *Abstract published in The FASEB Journal* 33(1\_Supplement):453.1.
- 2019** **Lesciotto KM**, Flaherty KV, Kaiser H, Edmondson AC. Assessment of the utility of a pedagogy interest workgroup for graduate teaching assistants. Poster presentation at the 2019 Annual Meeting of Experimental Biology, American Association of Anatomists Section, Orlando, FL. *Abstract published in The FASEB Journal* 33(1\_Supplement):606.1.

- 2019 **Lesciotto KM**, Flaherty K. Training graduate students to be effective instructors: Our experience with a student-led pedagogy interest group. Poster presentation at the 88<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Cleveland, OH. *Abstract published in American Journal of Physical Anthropology* 168(S68):141-142.
- 2018 **Lesciotto KM**, Waters D, Squyres N. Exploring alternative cadaver brain dissections. Poster presentation at the 2018 Annual Meeting of the Human Anatomy & Physiology Society, Columbus, OH.
- 2018 **Lesciotto KM**, Motch Perinne SM, Kawasaki K, Richtsmeier JT. Identification of a novel vomer phenotype in the *Fgfr2c*<sup>C342Y/+</sup> mouse model of Crouzon syndrome. Poster presentation at the 2018 Meeting of Experimental Biology, American Association of Anatomists Section, San Diego, CA. *Abstract published in The FASEB Journal* 32(1\_Supplement):776.12.
- 2018 Walls M, Klales AR, **Lesciotto KM**, Gocha T, Garvin HM. Reliability and validity of the Walker (2008) and Klales et al. (2012) methods. Poster Presentation at the 70<sup>th</sup> Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA.
- 2017 **Lesciotto KM** and Doershuk LJ. Effect of age on nonmetric cranial traits for sex estimation in subadults and adults. Poster Presentation at the 86<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, New Orleans, LA. *Abstract published in American Journal of Physical Anthropology* 162(S64):260.
- 2017 **Lesciotto KM** and Doershuk LJ. Accuracy and reliability of the Klales et al. (2012) nonmetric pelvic sexing method. Poster Presentation at the 69<sup>th</sup> Annual Meeting of the American Academy of Forensic Sciences, New Orleans, LA.
- 2016 **Lesciotto KM**, Cabo LL, Garvin HM. The influence of sex and allometry on subnasal prognathism in modern humans. Poster Presentation at the 85<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Atlanta, GA. *Abstract published in American Journal of Physical Anthropology* 159(S62):207.
- 2016 Klales AR and **Lesciotto KM**. The "Science of Science": examining bias in forensic anthropology. Podium Presentation at the 68<sup>th</sup> Annual Meeting of the American Academy of Forensic Sciences, Las Vegas, NV.
- 2015 **Lesciotto KM**, Motch Perrine SM, Flaherty K, Kawasaki K, Holmes G, Jabs EW, Richtsmeier, JT. Moving towards a mouse model for choanal atresia. Poster Presentation at the 38<sup>th</sup> Annual Meeting of the Society for Craniofacial Genetics and Developmental Biology, Baltimore, MD. *Abstract published in American Journal of Medical Genetics Part A* 170(7):1747.
- 2015 **Lesciotto KM** and Garvin HM. A geometric morphometric approach to prognathism and the gnathic index. Poster Presentation at the 84<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, St. Louis, MO. *Abstract published in American Journal of Physical Anthropology* 156(S60):202.
- 2015 **Lesciotto KM**. The impact of *Daubert* on the admissibility of forensic anthropology expert testimony. Podium Presentation at the 67<sup>th</sup> Annual Meeting of the American Academy of Forensic Sciences, Orlando, FL.
- 2014 **Lesciotto KM** and Garvin HM. A morphometric analysis of prognathism and the gnathic index. Podium Presentation at the 1<sup>st</sup> Annual Meeting of the Mid-Atlantic Bioanthropology Interest Group, Richmond, VA.

- 2005 Kubota K, **Lesciotto K**, Schriefer M. Expanding the net: from foodborne to vector-borne PFGE typing of *Yersinia pestis* and *Francisella tularensis*. Poster Presentation at the PulseNet Update Meeting, Seattle, WA.

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## Symposia and Meeting Organization

- Accepted** Chair, Hybrid Symposium- It Takes Two to Tango: Creating Successful Trainee-Advisor Mentoring Relationships. *To Be Presented* at the Annual Meeting of Experimental Biology, American Association for Anatomy, San Diego, April 2020.
- 2015 Co-Chair, Bring Your Own Slides, Student Section. American Academy of Forensic Sciences, Orlando.

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## Professional Development

- 2019 Science Communication Boot Camp, American Association of Anatomists
- 2018 – Pedagogy Interest Group, Co-creator and Organizer, Pennsylvania State University
- 2017 Biology 400: Teaching in Biology, Student, Pennsylvania State University
- 2017 Introduction to Metacognition Workshop, Organizer, Pennsylvania State University

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## Research Grants

- 2019 Energy and Environmental Sustainability Laboratories Green Seed Grant (\$2,400), Pennsylvania State University, *Establishing Normative Embryonic and Early Postnatal Cranial Bone Volume and Density Values for C57BL/6J Laboratory Mice*
- 2017 Doctoral Dissertation Research Improvement Grant (\$19,986), NSF, *Dissecting the effect of encephalization on skull morphogenesis*
- 2017 Hill Fellowship Post-Comprehensive Examination Award (\$3,000), Pennsylvania State University, *Dissecting the effect of encephalization on skull morphogenesis*
- 2014 Student Scholarly Research Fund Award (\$200), Mercyhurst University

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## Awards and Honors

- 2019 Science Communication Boot Camp Scholarship, American Association of Anatomists
- 2019 Graduate Assistant Outstanding Teaching Award, Pennsylvania State University
- 2018 Graduate Student Poster Award Finalist, American Association of Anatomists
- 2015 Sister Eustace Taylor Graduate Student Award in Anthropology, Mercyhurst University

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## Academic Service, Science Communication, and Outreach

- 2019 – Contributor, March Mammal Madness
- 2018 – Pedagogy Committee, Anthropology Graduate Student Association, Pennsylvania State University
- 2017-2018 President, Anthropology Graduate Student Association, Pennsylvania State University
- 2016-2018 ScienceU Pre-Med Expo, Pennsylvania State University
- 2016-2018 ENVISION/EYH STEM Career Day for Women, Pennsylvania State University
- 2015 Life Science Symposium Planning Committee, Pennsylvania State University
- 2014 Camp Cadet, Pennsylvania State Police
- 2014 Forensic Science Camp, Mercyhurst University
- 2013–2015 Representative, Graduate Student Council, Mercyhurst University

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## Additional Skills

**Statistical Programs:***SPSS 24.0, R Statistical Program***Adobe Programs:***Photoshop, Illustrator, InDesign***Image Analysis Programs:***Avizo 9.4, ImageJ, MorphoJ, Morphologika***Forensic Analysis Programs:***Fordisc, ADBOU*

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## References

**Joan T. Richtsmeier**

- Distinguished Professor
- Department of Anthropology
- Pennsylvania State University
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**John R. Waters**

- Teaching Professor
- Associate Department Head,  
Undergraduate Education
- Department of Biology
- Pennsylvania State University
- ☎ (814) 863-1154
- ✉ [johnwaters@psu.edu](mailto:johnwaters@psu.edu)

**Heather Garvin-Elling, D-ABFA**

- Associate Professor
- Department of Anatomy
- Des Moines University
- ☎ (515) 271-1694
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**Nicole Squyres**

- Assistant Teaching Professor
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- Pennsylvania State University
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