

Lindsay Gaona Dougan

CURRICULUM VITAE

Education

- 2016 M. S., Modern Human Anatomy, University of Colorado Denver- Anschutz Medical Campus
- “Quantitative Analysis of Sexual Dimorphism in the Human Nuchal Crest and Mastoid Process Using 3D Surface Scans”
Chair: Danielle Royer, PhD.
- 2011 B. A., Anthropology, University of Texas, Austin
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Research Areas of Interest

3D Modeling	Image Processing
Biological Anthropology	Medical and Industrial Imaging
Comparative Anatomy	Osteology
Geometric Morphometrics	Vertebrate Paleontology
Gross Anatomy	Virtual Reality

Professional Employment

- 2017-Present Digital Research Lab Technician, Denver Museum of Nature & Science, Denver, CO
- 2016-2017 Anatomist and Product Specialist, Touch of Life Technologies, Aurora, CO
- 2015-2016 Student Assistant III, Colorado Molecular Correlates Lab, University of Colorado Denver, Anschutz Medical Campus, Aurora, CO

Leadership · Service · Mentorship

- Fall 2019 University of Colorado Modern Human Anatomy Seminar Speaker, “Behind the Scenes: Digital Research at the Denver Museum of Nature & Science”
- Fall 2019 David B. Jones Internship Mentor
- Summer 2019 DMNS Teen Science Scholars Mentor
- 2019 DMNS Science on the Spot Pop-ups: “10 years of Expedition Health”, “Digital Dinos & Virtual Vertebrates”, “Teen Science Scholars present...”, “Dog Days of Summer”
- Fall 2018 University of Colorado Modern Human Anatomy Seminar Speaker, “Digital Imaging at the Denver Museum of Nature & Science”
- Fall 2018 David B. Jones Internship Mentor
- 2018 DMNS New Member Nights, Public outreach

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- Spring 2018 DMNS Girls and Science Speaker, "X-ray Vision is my Science Superpower!"
- Winter 2018 DMNS Darwin Day, Public outreach
- Fall 2017 University of Colorado Modern Human Anatomy Seminar Speaker, "Digital Imaging at the Denver Museum of Nature & Science"
- Fall 2017 DMNS Science Lounge, Public outreach
- Summer 2017 Madagascar Paleontology Project Internship Mentor
- 2017 DMNS New Member Nights, Public outreach

Publications

Gaona, L. (2016) Quantitative Analysis of Sexual Dimorphism in the Human Nuchal Crest and Mastoid Process Using 3D Surface Scans. *University of Colorado Denver, Master of Science in Modern Human Anatomy*

Gaona, L., Royer, D. (2016) Complications in 3D Quantitative Analysis of Sexual Dimorphism of the Human Nuchal Area. *American Association of Anatomists*.

Gaona, L. (2015) Human Body Case Development Module: Epidural Hematoma. *University of Colorado Denver, School of Medicine*.

Conference Presentations

- 2018 "Evaluation of Novel Visualization Software for Virtual Paleontology" Society of Vertebrate Paleontology. Platform Presentation. Accepted.
- 2016 "Complications in 3D Quantitative Analysis of Sexual Dimorphism of the Human Nuchal Area." American Association of Anatomists/Experimental Biology Annual Conference. Poster Presentation. Accepted.

Professional Development • Workshops • Training

- 2019 Basics of CT Data Acquisition, Visualization, and Analysis, University of Texas at Austin
- 2015 Computed Tomography cadaver imaging, University of Colorado Denver-Anschutz Medical Campus.
- 2015 Anatomy Centered Ultrasound with Human Gross Anatomy, University of Colorado Denver-Anschutz Medical Campus.
- 2014 Magnetic Resonance Imaging Safety Level 1 Training, University of Colorado Denver- Anschutz Medical Campus.

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Technical Skills

Imaging Modalities

Computed Tomography
Digital Pathology
Light Microscopy
Magnetic Resonance
NextEngine 3D Laser Scanner

Polhemus FastScan 3D Laser Scanner
Photogrammetry
Radiography
Ultrasound

Software:

Adobe Photoshop	FastScan	ORS Dragonfly
Adobe Premiere Pro	Geomagic Control	Osirix
Agisoft Photoscan	Geomagic DesignX	PAST
Autodesk 3DSMax	Geomagic Wrap	R Studio
Autodesk Maya	Handbrake	ScanIP
Autodesk MeshMixer	ImageJ/FIJI	Sectra Education Portal
Avizo	MATLAB	Sectra IDS7
Blender	MeshLab	Slicer3D
Capture NX-D	Microsoft Office Suite	VH Dissector Pro
Cura	NextEngine ScanStudio	VH Dissector Touch

Professional Memberships

2019-Present, American Association for Anatomy, Regular Member

2015- 2017, American Association of Anatomists, Graduate Student Member

2014-2016, Women in STEM, Graduate Student Member, Modern Human Anatomy Representative

2011- Present, Texas Exes, Life Member