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FACULTY APPOINTMENTS:

Assistant Professor, Center for Functional Anatomy & Evolution (2006-present)
Johns Hopkins University School of Medicine, Baltimore, MD
Assistant Professor, Department of Physiology (2006-present)
Johns Hopkins University School of Medicine, Baltimore, MD
Instructor, Center for Functional Anatomy & Evolution (2005-2006)
Johns Hopkins University School of Medicine, Baltimore, MD
Affiliated Faculty, Center for Craniofacial Development and Disorders (2005-2006)
Johns Hopkins University School of Medicine, Baltimore, MD

EDUCATION:

Johns Hopkins University School of Medicine, Baltimore, MD
Ph.D. (2004), Functional Anatomy and Evolution
Dissertation: "Fluctuating Asymmetry in the Human Craniofacial Skeleton: Effects of Sexual Dimorphism, Stress, and Developmental Anomalies"
Advisor: Dr. Joan T. Richtsmeier
University of Florida, Gainesville, FL
M.A. (1998), Anthropology
Thesis: "Stable Isotope Analysis and Paleodiet at the Bay West Site, Collier County, Florida"
Advisor: Dr. Susan C. Antón
New York University, New York, NY
LL.M. (1992), Taxation
University of Florida, Gainesville, FL
J.D. (1991), Law
B.A. (1988), History

FELLOWSHIPS AND AWARDS:

Ales Hrdlička Award, American Association of Physical Anthropologists (2004)
Johns Hopkins University Graduate Student Stipend (1999-2004)
National Science Foundation Graduate Research Fellowship (1996-1999)
University of Florida Department of Anthropology Research Assistantship (1995-1996)
University of Florida Department of Anthropology Grant (1995)

RESEARCH INTERESTS: craniofacial development, morphological integration, fluctuating asymmetry as indication of developmental stability, morphometric methods and software, brain dysmorphology in autism and related disorders

RESEARCH SUPPORT:

“Genetic basis for congenital heart defects”

NIH/NHLBI 1R01HL083300-01A1 (2/07-1/12)

Role: Co-Investigator (PI: Roger Reeves, PhD)

“Mental Retardation Developmental Disabilities Research Center”

NIH/NICHHD 5 P30 HD024061-19 (8/88-6/08)

Role: Co-Investigator (PI: Michael F. Cataldo, PhD)

“Effects of the FGFR2^{tyr342cys} mutation on skull maturation and growth”

Plastic Surgery Educational Foundation (5/04-5/05)

Role: Collaborator (PI: Chad A. Perlyn, MD)

“Dissertation Improvement Grant: Craniofacial Asymmetry, Morphological Integration, and Developmental Instability in the Human Skull”

NSF #0234565 (4/02-3/04)

Role: Co-Investigator (PI: JT Richtsmeier)

Johns Hopkins Graduate Student Association Research Grant (12/02)

PREVIOUS POSITIONS:

Postdoctoral Fellow, Dr. Roger Reeves, Johns Hopkins University (2004-2005).

Assessed heart septation in a mouse model for Down syndrome. Examined role of *Creld1* and *Hey2* as modifier genes in mouse models of heart septation. Designed a mouse model for a *Creld1* mutation associated with heart septation defects.

Research Assistant, Dr. Joan Richtsmeier, Johns Hopkins University (1998-2004).

Collected coordinate data from 3-D computer reconstructions of human skulls from CT scans; analyzed data using WinEDMA, Systat, and other software packages; managed large database of human subject information.

Osteological Inventory (Volunteer), Florida Museum of Natural History (1996-1998).

Identified osteological specimens for NAGPRA compliance project.

Research Assistant, Dr. Lynette Norr, University of Florida (1995-1996).

Organized new laboratory and prepared archaeological specimens for stable isotope analysis.

Field Crew, Bundesdenkmalamt, Vienna, Austria (1995).

Archaeological mitigation fieldwork near Wolfsthal, Austria.

Researcher, Southeastern Archaeology, Inc., Gainesville, Florida (1994-1995).

Composed archaeological reports and performed fieldwork and specimen preparation for a cultural resource management firm.

Tax Attorney, Foley & Lardner, Jacksonville, Florida (1992-1994).

Created various corporate and partnership entities, drafted numerous contractual documents, and participated in due diligence and structural organization for SEC filings.

Field Crew, Institut für Ur- und Frühgeschichte, Vienna, Austria (1987-1989).

Archaeological fieldwork at 6-8th century Avar cemetery site near Zillingtal, Austria.

TEACHING EXPERIENCE:

“Morphometrics” (2008)

Johns Hopkins University School of Medicine (graduate students)

“Neuroanatomy” (2007)

Johns Hopkins University School of Medicine (graduate students)

“Applied Statistics for the Natural Sciences” (2006)

Johns Hopkins University School of Medicine (graduate students)

“Human Gross Anatomy” (2005-present)

Johns Hopkins University School of Medicine (medical students)

“Summer Institute in Anatomy” (2006-present)

Johns Hopkins University School of Medicine (undergraduate students)

“Human Osteology” (2004)

University of Maryland Department of Anthropology (undergraduate students)

PROFESSIONAL SERVICE:

Organizational Service, Johns Hopkins University School of Medicine:

Member, Medical School Council (2004-ongoing)

Agenda Committee, Medical School Council (2006-2007)

Joint Oversight Committee for Faculty and Gender (2006-2007)

Vice-President for Internal Affairs, Johns Hopkins Postdoctoral Association (2004-2005)

Member, Health Services Advisory Board (2004-2005)

Departmental Representative, Graduate Student Association (2001-2004)

Parking Representative, Graduate Student Association (2001-2004)

Editorial Service:

Guest Reviewer, Journal of Anatomy (2007-2008)

Guest Reviewer, American Journal of Physical Anthropology (2007-2008)

Guest Reviewer, Cleft Palate-Craniofacial Journal (2004-2008)

Guest Reviewer, Journal of Human Evolution (2002)

Book Reviewer, American Journal of Physical Anthropology (2007)

Other Professional Activities:

Program Committee, American Association of Anatomists (2008-2010)

Advisory Committee for Young Anatomists, American Association of Anatomists (2007-2010)

Session Chair, Annual Meeting, American Association of Physical Anthropologists (2004)

PROFESSIONAL ORGANIZATIONS:

Member, American Association of Physical Anthropologists

Member, American Cleft Palate-Craniofacial Association

Member, American Association of Anatomists

PUBLICATIONS (PEER-REVIEWED):

DeLeon VB, Richtsmeier JT. (2008) Fluctuating asymmetry and developmental instability in sagittal craniosynostosis. *Cleft Palate-Craniofacial Journal*, in press.

- Rose K, **DeLeon V**, Missiaen P, Rana R, Sahni A, Smith T. (2008) Early Eocene Lagomorph (Mammalia) from western India and the early diversification of Lagomorpha. *Proceedings of the Royal Society B*, in press.
- Seidenstricker L, Becker D, Govier D, **DeLeon VB**, Lo LJ, Kane AA. (2008) Comparative osseous and soft tissue morphology following cleft lip repair. *Cleft Palate-Craniofacial Journal*, in press.
- DeLeon VB**. (2007) Fluctuating asymmetry and stress in a medieval Nubian population. *American Journal of Physical Anthropology*, 132:520-34.
- Kane AA, **DeLeon VB**, Valeri C, Becker DB, Richtsmeier JT, Lo LJ. (2007) Preoperative osseous dysmorphology in unilateral complete cleft lip and palate: a quantitative analysis of computed tomography data. *Plastic and Reconstructive Surgery*, 119:1295-301.
- Becker DB, Fundakowski C, Govier D, **DeLeon V**, Marsh JL, Kane AA. (2006) Long-term osseous morphological outcome of surgically treated unicoronal craniosynostosis. *Plastic and Reconstructive Surgery*, 117:929-935.
- Perlyn CA, **DeLeon VB**, Babbs C, Govier D, Burell L, Darvann T, Kreiborg S, Morriss-Kay G. (2006) The craniofacial phenotype of the Crouzon mouse: Analysis of a model for syndromic craniosynostosis using 3D microCT. *Cleft Palate-Craniofacial Journal*, 43:740-748.
- Richtsmeier JT, Aldridge K, **DeLeon VB**, Panchal J, Kane AA, Marsh JL, Yan P, Cole TM III. (2006) Phenotypic integration of neurocranium and brain. *Journal of Experimental Zoology (Mol Dev Evol)*, 306:360-378.
- Aldridge K, Boyadjiev SA, Capone GT, **DeLeon VB**, Richtsmeier JT. (2005) Precision and error of three-dimensional phenotypic measures acquired from 3dMD photogrammetric images. *American Journal of Medical Genetics*, 138A:247-253.
- Richtsmeier JT, **DeLeon VB**, Lele S. (2002) The promise of geometric morphometrics. *Yearbook of Physical Anthropology*, 45:63-91.
- DeLeon VB**, Zumpano MP, Richtsmeier JT. (2001) The effect of neurocranial surgery on basicranial morphology in isolated sagittal craniosynostosis. *Cleft Palate-Craniofacial Journal*, 38(2):134-46.
- Steadman DW, **DeLeon VB**. (1999) First highly stratified prehistoric vertebrate sequence from the Galápagos Islands, Ecuador. *Pacific Science*, 53:129-143.

PUBLICATIONS (INVITED):

- DeLeon VB**, Kane AA, Valeri C, Richtsmeier JT, Lo LJ. (2001) The effects of growth and lip repair upon osseous facial morphology in unilateral complete cleft lip and palate: an analysis of longitudinal CT data. In *Transactions of the 9th International Congress on Cleft Palate and Related Craniofacial Anomalies*, J. Lilja (ed.) Göteborg: Novum Grafiska AB, pp. 293-298.

DeLeon VB, Jabs EW, Richtsmeier JT. (2000) Craniofacial growth: genetic basis and morphogenetic process in craniosynostosis. In *Plastic Surgery: Indications, Operations, and Outcomes (Volume 2)*, Achauer et al. (eds.) St. Louis: Mosby, Inc., pp.619-636.

MEETINGS PRESENTATIONS:

DeLeon VB, Auerbach BM. (2007) Morphological integration in human limb bones. *American Journal of Physical Anthropology*, Supplement 44.

DeLeon VB. (2004) Constraints on asymmetric variation in the human skull [invited paper]. *Journal of Morphology*, 260:287.

DeLeon VB. (2004) Fluctuating asymmetry and stress in a medieval Nubian population. *American Journal of Physical Anthropology*, Supplement 38:84.

Richtsmeier JT, Aldridge K, Cole TM III, **DeLeon VB**, Yan P, Panchal J, Carson B, VanderKolk C, Marsh J, Govier D, Kane A (2004) The relationship between skull and central nervous system phenotypes in craniosynostosis. Presented at the American Cleft Palate-Craniofacial Association Annual Meeting, Chicago, IL.

Aldridge K, **DeLeon VB**, Richtsmeier, JT (2003) Developmental instability and isolated sagittal craniosynostosis. *American Journal of Human Genetics*, Supplement 73: 322.

DeLeon VB. (2003) Asymmetry, developmental instability and non-directional growth constraints in the human skull. *American Journal of Physical Anthropology*, Supplement 36:86

Antón SC, **DeLeon VB**. (2003) Masticatory loading and modern human origins. *American Journal of Physical Anthropology*, Supplement 36:59.

Richtsmeier JT, Aldridge KJ, Cole TM, III, **DeLeon VB**, Govier D, Marsh JL, Kane AA, Panchal J, Vander Kolk C, and Carson BS. (2003) Integration of brain and bone in craniosynostosis. Presented at the American Cleft Palate-Craniofacial Association Annual Meeting, Asheville, NC.

Cole TM III, Aldridge K, **DeLeon VB**, Marsh J, Richtsmeier JT. (2002) Three-dimensional visualization of midsagittal plane distortions in cases of craniofacial asymmetry. Presented at the American Cleft Palate-Craniofacial Association Annual Meeting, Seattle, WA.

Richtsmeier JT, Cole TM, III, Lindsay E, Kreger CD, **DeLeon VB**, Aldridge K, Lele S. (2002) Studying asymmetry with Euclidean Distance Matrix Analysis (EDMA). *American Journal of Physical Anthropology*, Supplement 34:131.

DeLeon VB, Dansey K, Kane AA, Cole TM, III, Lele S, Marsh JL, VanderKolk CA, Carson BS, Perlyn CA, Govier DP, Richtsmeier JT. (2001) Neurocranial surgery affects growth patterns in the osseous cranial base and soft tissues of the face and ear regions. Presented at the American Cleft Palate-Craniofacial Association Annual Meeting, Minneapolis, MN.

DeLeon VB, Frohlich B, Garofalo E., Ruff CB. (2001) Crushing seeds and gouging trees: the impact on mandibular and zygomatic arch strengths. *American Journal of Physical Anthropology*, Supplement 32:58.

- DeLeon VB**, Kane AA, Valeri C, Richtsmeier JT, Lo LJ. (2001) The effects of growth and lip repair upon osseous facial morphology in unilateral complete cleft lip and palate: an analysis of longitudinal CT data. Presented at the 9th International Congress on Cleft Palate and Related Craniofacial Anomalies, Göteborg, Sweden.
- Kane AA, **DeLeon VB**, Valeri C, Richtsmeier JT, Lo LJ. (2001) Preoperative osseous dysmorphology of unilateral complete cleft lip and palate: a Euclidean Distance Matrix Analysis of CT data. Presented at the American Cleft Palate-Craniofacial Association Annual Meeting, Minneapolis, MN.
- DeLeon VB**, Cole TM, III, Lele S, Marsh JL, Richtsmeier JT. (2000) Reversal of asymmetric growth in the cranial base following neurocranial surgery in unicoronal craniosynostosis. *American Journal of Physical Anthropology*, Supplement 30:136.
- Cole TM, III, **DeLeon VB**, Lele S, Richtsmeier JT. (1999) Morphometric recognition of shape-conservative anatomical complexes. *American Journal of Physical Anthropology*, Supplement 28:110.
- DeLeon VB**, Zumpano MP, Richtsmeier JT. (1999) Effects of neurocranial surgery on basicranial growth in isolated sagittal craniosynostosis. *American Journal of Physical Anthropology*, Supplement 28:116.
- Richtsmeier JT, Aldridge K, **DeLeon VB**, Valeri CJ, Zumpano MP, Marsh JL, VanderKolk CA, Carson BS. (1999) Quantification of distinct craniofacial morphologies in isolated metopic, sagittal, and unicoronal synostosis and Crouzon syndrome, using a principle coordinates application of EDMA. Presented at the American Cleft Palate-Craniofacial Association Annual Meeting, Scottsdale, AZ.
- Zumpano MP, **DeLeon VB**, Carson BS, VanderKolk CA, Richtsmeier JT. (1999) A comparison of basicranial morphology between pre- and post-operative patients with sagittal synostosis. Presented at the American Cleft Palate-Craniofacial Association Annual Meeting, Scottsdale, AZ.
- Cole TM, III, **DeLeon VB**, Lele S, Richtsmeier JT. (1998) Recognition of shape-conservative landmark cliques in the morphometric study of form. Presented at a conference celebrating the life and work of D'Arcy Wentworth Thompson, "On growth and form: spatio-temporal patterning in biology," Dundee, Scotland.