

CURRICULUM VITAE
KRISTINA ALDRIDGE

OFFICE ADDRESS

Department of Pathology & Anatomical Sciences
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EDUCATION

- 1996 B.A. *cum laude*, Anthropology, Washington University, St. Louis, MO
- 2004 Ph.D., Center for Functional Anatomy and Evolution, Johns Hopkins University School of Medicine, Baltimore, MD
Thesis: Organization of the human brain: development, variability, and evolution.

ACADEMIC POSITION

- 2006- Assistant professor, Department of Pathology & Anatomical Sciences, University of Missouri School of Medicine.

POSITIONS AT OTHER INSTITUTIONS

- 1994-1996 Research assistant to Dr. Gayle Fritz, Department of Anthropology, Washington University.
- 1997-1999 Research assistant to Dr. Mark Teaford, Center for Functional Anatomy and Evolution, JHU School of Medicine.
- 1997-2000 Research assistant, Center for Craniofacial Development and Disorders, JHU School of Medicine.
- 2001-2005 Research assistant/postdoctoral fellow to Dr. Joan Richtsmeier, Department of Anthropology, Pennsylvania State University.
- 2005-2006 NIMH Postdoctoral Scholar with Drs. John Csernansky and James Cheverud, Department of Psychiatry, Washington University School of Medicine.

PROFESSIONAL SOCIETIES

American Association of Physical Anthropologists
American Cleft Palate-Craniofacial Association
American Society of Human Genetics
American Association for the Advancement of Science

MANUSCRIPT REVIEWS

American Cleft Palate-Craniofacial Journal
Anatomical Record
Journal of Human Evolution

PUBLICATIONS

Aldridge K (2006) Re: "Effect of smoking on depressive symptomatology." *American Journal of Epidemiology* 163: 780.

Richtsmeier JT, Aldridge K, DeLeon VB, Panchal J, Kane AA, Marsh JL, Yan P, Cole TM 3rd (2006) Phenotypic integration of neurocranium and brain. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution* 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 Part A* 138A: 247-253.

Aldridge K, Kane AA, Marsh JL, Panchal J, Boyd SA, Yan P, Govier D, Ahmad W, Richtsmeier JT (2005) Brain Morphology in Non-Syndromic Unicoronal Craniosynostosis. *Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology* 285A: 690-698.

Aldridge K, Kane AA, Marsh JL, Govier D, Richtsmeier JT (2005) Relationship of brain and skull in pre- and postoperative sagittal synostosis. *Journal of Anatomy* 206: 373-385.

Weiss K, Aldridge K (2003) What stamps the wrinkle deeper on the brow? *Evolutionary Anthropology* 12: 205-210.

Aldridge K, Marsh JL, Govier D, Richtsmeier JT (2002) Central nervous system phenotypes in craniosynostosis. *Journal of Anatomy* 201: 31-39.

Aldridge K, Marsh JL, Kane AA, Perlyn, CA, and Richtsmeier JT (2001) Quantification of central nervous system dysmorphology in isolated craniosynostoses. In Transactions of the Ninth International Congress on Cleft Palate and Related Craniofacial Anomalies, J. Lilja (ed.) Göteborg: Novum Grafiska AB, pp. 251-56.

PUBLICATIONS IN PREPARATION

Aldridge K, Barta P, Pearlson G, and Richtsmeier JT (*in prep*) Evolution of brain morphology in anthropoid primates.

Aldridge K, Barta P, Pearlson G, and Richtsmeier JT (*in prep*) Age and gender effects on brain morphology.

Aldridge K, Yan P, Panchal J, Kane AA, Marsh JL, Richtsmeier JT (*in prep*) Morphological integration of the brain in three distinct craniofacial phenotypes with implications for brain evolution.

Aldridge K, Reeves RH, Baxter LL, Olson LE, Richtsmeier JT (*in prep*) Distinct brain phenotypes in three aneuploid mouse models with implications for Down syndrome.

INVITED PRESENTATIONS

2002 Dymorphology, asymmetry, growth: what we've learned from craniosynostosis. Presented to the faculty of the Center for Craniofacial Development and Disorders, the Johns Hopkins Hospital, Baltimore, March (with Valerie B. DeLeon and Joan T. Richtsmeier).

2003 Morphological effects of tissue interaction in craniofacial growth. Presented at a symposium in honor of the work of Professor Melvin L. Moss entitled "Advances in the modeling of form: clinical and computational interfaces" (with Joan T. Richtsmeier), October, New York, NY.

- 2003 Morphological integration of central nervous system and cranium in craniosynostosis (Joan T. Richtsmeier presenter), Annual meeting of the Society for Craniofacial Genetics, November, Los Angeles, CA.
- 2003 Evolution and development of human brain morphology using 3D MRI. Presented to the faculty of the Department of Orthodontics, University of Copenhagen School of Dentistry, December, Copenhagen, Denmark.
- 2004 Development and evolution of the brain. Presented to the faculty of the Department of Anthropology, George Washington University, February, Washington, DC.
- 2004 Evolution of human brain morphology. Presented to the Center for the Study of Hominid Paleobiology, George Washington University, February, Washington, DC.
- 2005 Brain dysmorphology in craniofacial disorders. Presented to the faculty of the Department of Pathology and Anatomical Sciences, University of Missouri at Columbia School of Medicine, April, Columbia, MO.
- 2006 Evolution and development of human brain morphology. Presented to the Department of Anthropology colloquium series, Washington University, January, St. Louis, MO
- 2006 Brain development and dysmorphology in craniofacial disorders. Presented to the faculty of the Conte Center for the Neuroscience of Mental Disorders, Washington University School of Medicine, January, St. Louis, MO.

PUBLISHED ABSTRACTS

Aldridge K, Ruff CB, Beck TJ (1998) The effects of physical fitness on the structure of long bone diaphyses: a study of US female Marine recruits. *American Journal of Physical Anthropology, Supplement 26*: 63.

Aldridge K, Richtsmeier JT (1999) Patterns of craniofacial variability in three savanna baboon groups. *American Journal of Physical Anthropology, Supplement 28*: 82-83.

Richtsmeier JT, Aldridge K, DeLeon VB, Valeri CJ, Zumpano MP, Marsh JL, VanderKolk C, 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 meetings, Scottsdale, AZ.

Teaford MF, Yamashita N, Aldridge K (1999) Food processing in different social groups of *Alouatta palliata*. *American Journal of Physical Anthropology Supplement 28* (abstract).

Aldridge K, Barta P, Pearlson G, and Richtsmeier JT (2000) Brain morphology, MRI data, and landmark-based analyses of form. *American Journal of Physical Anthropology, Supplement 30*:94.

Aldridge K (2001) Evolution of the human brain: Size, shape, and organization. *American Journal of Physical Anthropology, Supplement 32*: 31.

Aldridge K, Marsh JL, Perlyn C, Richtsmeier JT (2001) Quantification of central nervous system dysmorphology in isolated craniosynostosis. In: Fifty-eighth annual meeting of the American Cleft Palate-Craniofacial Association. Minneapolis, MN. Abstract.

Aldridge K, Marsh JL, Kane AA, Perlyn CA, Richtsmeier JT. (2001) Quantification of the impact of isolated craniosynostosis on central nervous system morphology. Presented at

the 9th International Congress on Cleft Palate and related Craniofacial Anomalies, Göteborg, Sweden.

Aldridge K (2002) Morphology as a key to evolutionary change in the primate brain. *American Journal of Physical Anthropology, Supplement 34*: 36.

Aldridge K, Marsh JL, Perlyn C, Panchal, J, Richtsmeier JT (2002) Effects of neurocranial surgery on growth of the central nervous system in isolated sagittal craniosynostosis. In: Fifty-ninth annual meeting of the American Cleft Palate-Craniofacial Association. Seattle, WA. Abstract.

Cole TM, Richtsmeier JT, DeLeon VB, Aldridge K, Marsh JL (2002) Three-dimensional visualization of midsagittal plane distortion in cases of craniofacial asymmetry. In: Fifty-ninth annual meeting of the American Cleft Palate-Craniofacial Association. Seattle, WA. Abstract.

Richtsmeier JT, Cole TM, 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.

Aldridge K (2003) Effects of aging on normal adult brains. *American Journal of Physical Anthropology, Supplement 36*: 57.

Richtsmeier JT, Aldridge K, Cole TM, DeLeon VB, Panchal J, Govier D, Carson BS, VanderKolk C, Marsh JL (2003) Integration of brain, bone and skin in craniosynostosis. In: Fifty-ninth annual meeting of the American Cleft Palate-Craniofacial Association. Asheville, NC. Abstract.

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

Aldridge K (2004) Development and evolution of morphological integration in the human brain. *American Journal of Physical Anthropology, Supplement. 38*: 51-2.

Richtsmeier JT, Aldridge K, Cole TM, DeLeon VB, Yan P, Panchal J, Govier D, Carson BS, VanderKolk C, Marsh JL, Kane AA (2004) The relationship between skull and CNS phenotypes in craniosynostosis. Fifty-ninth annual meeting of the American Cleft Palate-Craniofacial Association. Chicago, IL. Abstract.

Aldridge K, Boyadjiev SA, Capone G, DeLeon VB, Richtsmeier JT (2004) Anthropometric landmarks from 3dMD surface images: a study of accuracy and repeatability. Fifty-fourth annual meeting of the American Society of Human Genetics. Toronto, Canada. Abstract.

Aldridge K, Richtsmeier JT, Reeves RH (2004) Neuroimaging in Down syndrome: what have we learned and where do we go from here? Inaugural World Congress on Chromosome Abnormalities. San Antonio, TX. Abstract.

Richtsmeier JT, Aldridge K, Marsh JL, Kane AA, Panchal J, DeLeon VB (2005) Phenotypic integration of brain and skull. *American Journal of Physical Anthropology, Supplement 40*: 176.

Frazier B, Aldridge K, Richtsmeier JT (2005) Sexual dimorphism and morphological integration in baboons. *American Journal of Physical Anthropology, Supplement 40*: 103.

FIELD EXPERIENCE

1997, 1998 Field crew, Duke/Johns Hopkins expedition to La Pacifica, Costa Rica.
Assisted in observation, capture, and dental casting of *Alouatta palliata*.

CLASSROOM TEACHING EXPERIENCE

1995 Teaching assistant, "Behavioral Research at the St. Louis Zoo," Washington University, St. Louis, MO.

1997-2000 Cadaver prosector, "Human Gross Anatomy," Johns Hopkins University, School of Medicine.

1999 Laboratory and discussion section instructor, "Human Gross Anatomy," Johns Hopkins University, School of Medicine.

2000 Guest laboratory instructor, "Human Gross Anatomy," Johns Hopkins University, School of Medicine.

2006 Anatomy 2201, "Elementary Anatomy," University of Missouri.
"Block 1 Human Gross Anatomy," University of Missouri School of Medicine.