

CURRICULUM VITAE

Name: Matthew Jordan Ravosa

Birthdate: September 1, 1961 (Holyoke, Massachusetts)

Personal: Married, Two Children (adopted 2001, Russia)

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Google Scholar Metrics: h-index (46), i10-index (92), citation total (5900+ in small discipline)

Post-Graduate Appointments

Professor, Tenured, Department of Biological Sciences, and Faculty Adviser in Preprofessional Studies, University of Notre Dame (June, 2011 to present)

Concurrent Professor, Departments of Aerospace and Mechanical Engineering, and Anthropology, University of Notre Dame (June, 2011 to present)

Adjunct Professor, Department of Anatomy and Cell Biology, Indiana University School of Medicine-South Bend, South Bend, Indiana (September, 2011 to present)

Research Associate, Department of Zoology, Mammals, Field Museum (April, 1993 to present)

Adjunct Professor, Department of Cell and Molecular Biology, Northwestern University Feinberg School of Medicine (December, 2006 to December, 2016)

Adjunct Professor, Department of Pathology and Anatomical Sciences, University of Missouri School of Medicine, Columbia, Missouri (June, 2011 to June, 2016)

Professor, Tenured, Department of Pathology and Anatomical Sciences, University of Missouri School of Medicine, Columbia, Missouri (December, 2006 to June, 2011)

Professor, Tenured, Department of Cell and Molecular Biology, Northwestern University Feinberg School of Medicine (June, 2005 to December, 2006)

Associate Professor, Tenured, Department of Cell and Molecular Biology, Northwestern University Feinberg School of Medicine (June, 1999 to May, 2005)

Assistant Professor, Department of Cell and Molecular Biology, Northwestern University Feinberg School of Medicine (April, 1993 to May, 1999)

Research Associate and Visiting Assistant Professor, Department of Biological Anthropology and Anatomy, Duke University Medical Center (August, 1989 to April, 1993)

Education

Northwestern University – Ph.D. in Biological Anthropology and Anatomy (December, 1989):
Evaluation of Biomechanical and Non-Mechanical Models of Primate Circumorbital Morphology

Northwestern University – M.A. in Biological Anthropology and Anatomy (August, 1986)

University of Rochester – B.A. in Interdepartmental Studies/Paleoanthropology (May, 1983)

Professional Memberships

American Association for the Advancement of Science (elected fellow)

Society for Integrative and Comparative Biology (lifetime member)

American Association of Biological Anthropologists (lifetime member)

International Society for Vertebrate Morphology (member)

Honors and Awards

Rev. Edmund P. Joyce, C.S.C., Award for Excellence in Undergraduate Teaching (2019)

Member, Order of Socrates II, University of Missouri School of Medicine Teaching Award (2009)

Fellow, American Association for the Advancement of Science (2008 to present)

National Research Service Award, NIH/NIDCR, Experimental Biology, Duke University (1990-1993)

Graduate Appointments

Seminar Instructor, Anthropology, Northwestern University (1988: primate evolutionary biology)

Teaching Assistant, Cell Biology & Anatomy, Northwestern University (1985-1988: gross anatomy)

Research Assistant, Cell Biology & Anatomy, Northwestern University (1985-1988: heterochrony)

Laboratory Teaching Assistant, Physical Therapy, Northwestern University (1985: gross anatomy)

Teaching Assistant, Anthropology, Northwestern University (1984-1985: archaeology, evolution)

Graduate Awards and Research Grants

NSF – Physical Anthropology Doctoral Dissertation Grant (1988-1989: \$8,545; BNS-8813220)

Northwestern University – Dissertation Year Grant (1988-1989: \$975; 0100-510-110Y)

American Museum of Natural History – Collection Study Grant (1987: \$800)

Ales Hrdlicka Student Paper Prize – American Association of Physical Anthropologists/AAPA (1987)

Earnest A. Hooton Award – National Student Poster Prize, AAPA international meeting (1986)

Post-Graduate Research Grants and Awards: Federal and National Support

- Site-Specific Perspective on Intrinsic Determinants of Bone Formation in the Developing Limbs. NIH – NIAMS (PI, R01 to be submitted for 2022-2026)
- Rules of Life: Lepidosaur Perspective on Dietary Properties and Craniomandibular Plasticity. NSF – Integrative Organismal Systems Program (PI, to be submitted for 2022-2024)
- Multiscale Modeling of Dura Mater Growth. NIH – NIBIB (co-PI, R21 resubmitted for 2022-2024: \$576,762)
- Encephalization, Loading and Bone Formation along the Cranial Vault and Base: First-Ever Mechanistic Analysis of Basicranial Flexion. NSF – Biological Anthropology & Physiological Mechanisms and Biomechanics (IOS) Programs (PI, 2019-2024: \$500,282; BCS-1848884)
- Multiscale Modeling of Dura Mater Growth and Mechanobiology. Indiana CTSI – Core Facilities Grant (co-PI, 2019-2022: \$10,000)
- Osteogenesis in the Developing Skull. Sigma Xi – Thesis Grant in Aid for E.M. Nett (PI/Mentor, 2019-2020: \$1,000)
- Daily Feeding Modality in Primates: Experimental Analysis of the Saturation Response on Mandibular Development and Performance. NSF – Biological Anthropology Program (PI, 2018-2020: \$498,825; BCS-1749453)
- Intra-peritoneal Mechanobiology and Tumor:Host Crosstalk in Ovarian Cancer. HCRI Walther Cancer Foundation IITP Program. Support for M. Asem (co-Mentor, 2017-2019: \$65,790)
- Dietary Properties and Chewing Patterns in Primates: First-Ever Analysis of Cyclical Loading. NSF – Biological Anthropology Program (PI, 2016-2018: \$346,317; BCS-1555168)
- Regional and Hierarchical Assessment of Cranial Plasticity and Dietary Adaptations. Leakey Foundation – Thesis Grant for E.M. Franks (PI/Mentor, 2016: \$4,905)
- Regional and Hierarchical Assessment of Cranial Plasticity and Dietary Adaptations. Wenner-Gren Foundation for Anthropological Research – Thesis Grant for E.M. Franks (PI/Mentor, 2015-2016: \$4,905)
- Extracellular Responses to Loading in the Mammalian Temporomandibular Joint Disc. Sigma Xi – Thesis Grant in Aid for A.L. Remer (PI/Mentor, 2015: \$500)
- Cancer Bisphosphonate Therapy and the Pathobiology of Osteonecrosis of the Jaw: An In Vivo Multidisciplinary Approach to the First Long-Term Animal Model. Harper Cancer Research Institute – Walther Cancer Foundation ABC Grant (PI, 2014-2017: \$200,000)
- Mechanobiology of Non-Sutural Skull Development in Mammals: Cultivating a Better Understanding for Enhanced Craniofacial Therapies. Indiana CTSI – Postdoctoral Fellowship for Holly E. Weiss-Bilka (PI/mentor, 2014-2016: \$85,704; TL1TR001107 to A. Shekhar)
- Determinants of Intraspecific versus Interspecific Variation in Mammals: Long-term Adaptive Responses to Loading in a Tissue Composite Structure (Temporomandibular Joint). American Society of Mammalogists – Thesis Grant in Aid for A.L. Remer (PI/Mentor, 2014-2015: \$1,500)
- Fallback Food Seasonality and the Plasticity of Craniomandibular Development. NSF – Biological Anthropology Program (PI, 2010-2013: \$244,186; BCS-1029149/1214767)

Post-Graduate Research Grants and Awards: Federal and National Support (cont.)

Variation in Grasping Pressures and Phalangeal Curvature in Primates: An Experimental *In Vivo* Approach. Leakey Foundation – Thesis Grant for K.A. Congdon (PI/Mentor, 2013-2014: \$13,500; funded personally by foundation trustee Gordon Getty)

Ecomorphological Implications of Primate Dietary Variability: An Experimental Model. NSF – Biological Anthropology Doctoral Dissertation Research Improvement Grant (DDRIG) for R.A. Menegaz (PI/Mentor, 2011-2012: \$15,695; BCS-1061368)

Ecomorphological Implications of Primate Dietary Variability: An Experimental Model. Wenner-Gren Foundation for Anthropological Research – Dissertation Grant for R.A. Menegaz (PI/Mentor, 2010-2011: \$15,000)

Ecomorphological Implications of Primate Dietary Variability: An Experimental Model. American Society of Mammalogists – Grant in Aid for R.A. Menegaz (PI/Mentor, 2010-2011: \$1,290)

Symphyseal Plasticity, Properties and Performance in Primate and Non-Primate Mammals. NSF – Biological Anthropology & Integrative Organismal Systems Programs (PI, 2009-2013: \$360,000; BCS-0924592/1214766)

Primate Cranial Form, Function and Development. NSF – Graduate Research Fellowship for R.A. Menegaz (Mentor, 2008-2011: \$120,000)

Novel Transgenic Mouse Model for Fetal Encephalization and Craniofacial Development. Leakey Foundation Dissertation Grant for E.K. Nicholson-López (PI/Mentor, 2008-2009: \$6,750)

Novel Transgenic Mouse Model for Fetal Encephalization and Craniofacial Development. Barnard College Foundation Grant for E.K. Nicholson-López (PI/Mentor, 2008-2009: \$3,000)

Novel Transgenic Mouse Model for Human Fetal Encephalization and Craniofacial Development. NSF – Biological Anthropology Program DDRIG for E.K. Nicholson-López (PI/Mentor, 2007-2009: \$15,000; BCS-0725338)

Craniodental Form, Functional Convergence and the Evolution of Dietary Preferences. NSF – Biological Anthropology Program DDRIG for A.S. Hogue (PI/Mentor, 2001-2002: \$6,996; BCS-0127915)

International Conference on Primate Origins and Adaptations. Wenner-Gren Foundation for Anthropological Research (PI, 2001: \$15,000)

International Symposium on Primate Origins and Adaptations. NSF – Physical Anthropology Program (PI, 2001: \$14,540; BCS-0129349)

Form and Function of the Eocene Adapid and Omomyid Temporomandibular Joint. Leakey Foundation – Dissertation Research Grant for C.J. Vinyard (PI/Mentor, 1998-1999: \$3,500)

Functional Analysis of the Skull in South American Capuchin Monkeys. NSF – Physical Anthropology Program (PI, 1997-1999: \$55,000; SBR-9709587)

Form and Function in the Strepsirrhine Primate Temporomandibular Joint. NSF – Bioanthropology Program DDRIG for C.J. Vinyard (PI/Mentor, 1997-1998: \$11,995; SBR-9701425)

Ontogeny, Evolution and Scaling of Primate Orbital Orientation. Leakey Foundation (PI, 1997-1998: \$9,850)

Post-Graduate Research Grants and Awards: Federal and National Support (cont.)

Mandibular Form and Function in North American and European Adapidae and Omomyidae. Leakey Foundation (PI, 1993-1994: \$5,000)

Cranial Growth, Form and Function in Subfossil Lemurs. Boise Fund – Oxford University (PI, 1992: \$960)

Symphyseal Morphology and the Biomechanical Scaling of Mandibular Corpus and Symphysis Dimensions in Carnivorans. Field Museum Visiting Scholar/T.J. Dee Fund (PI, 1991: \$700)

Stress Analysis of the Postorbital Bar in Primates. National Institutes of Health (NIDCR) – National Research Service Award in Experimental Biology (PI, 1990-1993: \$79,500; DE-05595-03)

Scaling, Heterochrony and Evolution in Galagos. American Philosophical Society (PI, 1990-1992: \$3,560)

Post-Graduate Research Grants and Awards: Intramural and Undergraduate Support

Mandibular Remodeling, Feeding Modality and the Saturation Response in Growing Rabbits. ND COS-SURF Summer Undergraduate Research Grant for H. Kowalkowski (PI/Mentor, 2021: \$4,500)

Role of Feeding Modality and Food Mechanical Properties on the Saturation Response and Mandibular Growth in Rabbits. ND COS-SURF Summer Undergraduate Research Grant for C.E. Alvarez (PI/Mentor, 2019: \$4,500)

Cancer Bisphosphonate Therapy and the Pathobiology of Osteonecrosis of the Jaw: Oral Tissue Proliferation, Apoptosis and Collagen Deposition in a Long-Term Animal Model. HCRI Walther Summer Undergraduate Fellowship for E.M. Brady (PI/Mentor, 2016: \$4,500)

Make No Bones without It: Characterization of Region-Specific Behaviors in Non-Sutural Cranial Osteoblasts using Bone Morphogenetic Proteins. ND COS-SURF Summer Undergraduate Research Grant for J.A. Brill (PI/Mentor, 2016: \$4,500)

Food Properties and Mammalian Mastication. ND COS-SURF Summer Undergraduate Research Grant for A. Fling (PI/Mentor, 2015: \$4,500)

Interdisciplinary Approach to Mechanobiology of Non-Sutural Cranial Osteoblasts and Dura Mater Cells. Notre Dame (ND) DaVinci Summer Undergraduate Research Grant for M.M. Mazur (PI/Mentor, 2014: \$4,500)

Diet and the Biomechanics of Symphyseal Soft and Hard Tissues in Strepsirrhines. ND COS-SURF Summer Undergraduate Research Grant for E. Lee (PI/Mentor, 2014: \$4,500)

Biomechanical Engineering Model of Mandibular Plasticity. ND DaVinci Summer Undergraduate Research Grant for J. Hlavaty (PI/Mentor, 2013: \$4,500)

Mechanobiology, Development and Adaptive Plasticity of the Mammalian Skull. ND COS-SURF Summer Undergraduate Research Grant for A.G. Mancini (PI/Mentor, 2012: \$4,500)

Bisphosphonates and Pathobiology of Osteonecrosis of the Jaw (ONJ). University of Missouri (MU) Research Board (PI, 2010-2011: \$40,000)

Post-Graduate Research Grants and Awards: Intramural and Undergraduate Support (cont.)

- Masticatory Stress, Plasticity and Aging in Mammalian Jaw Joints. MU Life Sciences Undergraduate Research Opportunity Program Grant for A.N. Daniels (PI/Mentor, 2009: \$3,500)
- Masticatory Stress, Function and Plasticity of Mammalian Circumorbital Region. MU Life Sciences Undergraduate Research Opportunity Program Grant for E. Jašarević (PI, 2008: \$3,500)
- Anterior Dental Loading and Craniofacial Function in Higher Primates. Northwestern University Research Grants Committee (PI, 1997-1998: \$5,000; 0100-510-14XM)
- Functional Analysis of the Mandible in South American Monkeys. Intramural Research Grant – Northwestern University Medical School (PI, 1994-1995: \$15,000; 0100-370-33ZZ)
- Evolutionary Development of Skull Form in Lorisiform Primates. Northwestern University Research Grants Committee (PI, 1994: \$2,600; 0100-510-05XJ)
- Allometry of Jaw Muscle Morphology and In Vivo Bite Force Magnitudes in African and Asian Cercopithecine Monkeys. Duke University Medical Center (PI, 1990-1992: \$5,000)
- Electromyography (EMG) of the Jaw Muscles and In Vivo Bone Strain in the Postorbital Bar of *Otolemur garnettii*. Duke University Research Council (PI, 1990-1991: \$1,200)

Research Interests

Experimental, comparative and theoretical analyses of skull growth, form, function and phylogeny
 Mechanobiology, function, plasticity, adaptation, pathobiology and aging of musculoskeletal system
 Heterochrony, allometry, scaling, ecomorphology and ecogeographic size variation

Personally Organized International Symposia

- April (2005) Ravosa, M.J., Vinyard, C.J. & Wall, C.E., Co-Chairs. Primate Craniofacial Biology and Function – Symposium in Honor of William L. Hylander. AAPA international meeting (Milwaukee). Am. J. Phys. Anthropol. Suppl. 40:50-51.
- December (2001) Ravosa, M.J. & Dagosto, M., Co-Chairs. Primate Origins and Adaptations. Northwestern University Medical School & Field Museum of Natural History (Chicago). Covered 1/25/02 issue of Science – “New Fossils and a Glimpse of Evolution” 295:613-615.
- April (1991) Ravosa, M.J. & Gomez, A.M., Co-Chairs. Ontogenetic Perspectives on Primate Evolutionary Biology. AAPA international meeting (Milwaukee). Am. J. Phys. Anthropol. Suppl. 12:31-32.

Personally Organized Intramural Conferences

Annually since 2017: Colleges of Science and Engineering Joint Annual Meeting (COSE-JAM) for Notre Dame Postdoctoral Fellows and Graduate Students. Conceived, Developed, Organized and Implemented by MJR to Foster Interdisciplinary Research, Networking and Career Development in a Peer-to-Peer Forum

Invited International Symposia and Plenary Sessions

- July (2022) Mechanobiology and adaptive plasticity in the lagomorph skull and feeding apparatus. Invited Workshop Speaker and Discussant in Special Session: Lagomorphs as a Model Morphological System. 6th World Lagomorph Conference. Montpellier, France.
- July (2022) Dietary mechanical properties, cyclical loading and remodeling in the maxilla of white rabbits. Invited Workshop Speaker and Discussant in Special Session: Lagomorphs as a Model Morphological System. 6th World Lagomorph Conference. Montpellier, France.
- March (2019) Understanding the NSF Broader Impacts Criterion and Developing the Societal Impact of Your Science. Invited Workshop Presenter and Discussant. American Association of Physical Anthropologists (AAPA) annual international meeting. (organized by NSF program officer)
- January (2019) Intrinsic determinants of morphological variation in the developing skull and jaws. Biological Anthropology Colloquium. Department of Anthropology, University of Toronto.
- July (2018) Force of habit? Intrinsic determinants of regional and hierarchical variation in the developing skull. Invited Speaker: Musculoskeletal System. World Congress on Biomechanics. Dublin, Ireland.
- April (2018) When biocultural isn't enough: The evolutionary becomings of skulls. Going Beyond the "Biocultural Synthesis": Bridging Theory and Practice in Bioarchaeology. AAPA annual international meeting. *Am. J. Phys. Anthropol. Suppl.* 66:215.
- April (2017) Adaptive plasticity in the masticatory apparatus: Inferences for form, function, and fossils. Adaptation: Identifying Form-Function Relationships in the Fossil Record. AAPA annual international meeting. *Am. J. Phys. Anthropol. Suppl.* 64:379.
- August (2016) Diet and bone plasticity: Intrinsic and extrinsic influences on cranial form. Plasticity and Individual Variation: Evolutionary Significance and Conservation Consequences. International Primatological Society/American Primatological Society international meeting.
- June (2016) Not all bones are created equal: Intrinsic and extrinsic influences on phenotypic expression in the developing skull. Determinants of the Mammalian Feeding System Design. International Congress on Vertebrate Morphology (ICVM) international meeting.
- June (2016) Mandibular loading, jaw-muscle activity and symphyseal performance: Elucidating the relationships among mastication, morphology and biomechanics of the mammalian jaw. Determinants of the Mammalian Feeding System Design. ICVM international meeting.
- March (2015) Zygomatic arch development in mammals: Phenotypic plasticity and osteoblast behavior. Plenary Speaker: Understanding the Zygoma – A Key Morphofunctional Partition in the Craniofacial Skeleton. Experimental Biology – American Association of Anatomists (EB-AAA) annual international meeting. *FASEB J.* 29:212.2.
- June (2013) Evolution, development and function of the skull and feeding complex. Plenary Speaker: Celebration of 100 Years of Oral Biology Research in Chicago. University of Illinois-Chicago.
- April (2013) Integrative analyses of masticatory ontogeny and biomechanics. Speaker. Wenner-Gren Workshop: Evolution of Hominin Diets. Institute of Human Origins, Arizona State University.
- April (2013) Integrative experimental approaches to adaptive interpretations of the fossil record. Plenary Speaker: Paleontology & Functional Anatomy. EB-AAA annual international meeting. *FASEB J.* 27:189.3.

Invited International Symposia and Plenary Sessions (cont.)

- March (2012) May the force be with you: Dietary properties, masticatory function and skull plasticity. Finding our Inner Animal: Understanding Human-ness via Experimental and Comparative Models. AAPA annual international meeting. *Am. J. Phys. Anthropol. Suppl.* 54:244-245.
- March (2012) Chewing on something new: An experimental model for primate dietary variability. Finding our Inner Animal: Understanding Human-ness via Experimental and Comparative Models. AAPA international meeting. *Am. J. Phys. Anthropol. Suppl.* 54:213.
- October (2010) Jaw-joint function and plasticity in mammals. Making Connections: The Evolution and Function of Joints in Vertebrates. Society for Vertebrate Paleontology (SVP) annual international meeting. *J. Vert. Paleontol.* 30 (Suppl. 3):149A.
- April (2009) Masticatory stress and the functional genomics of the TMJ articular disc in mammals. Standing at the Crossroads: The Genetics of Morphology. AAPA international meeting. *Am. J. Phys. Anthropol. Suppl.* 48:337.
- August (2008) Allometry and craniofacial form, function and evolution in strepsirrhines. Body Size in Primate Biology. International Primatological Society international meeting. Edinburgh, Scotland.
- January (2008) Using Mighty Mouse to understand masticatory plasticity: Myostatin-deficient mice and musculoskeletal function. Building a Better Organismal Model: The Role of the Mouse. Society for Integrative and Comparative Biology (SICB) annual international meeting.
- January (2008) A novel transgenic mouse model for fetal encephalization and cranial development. Building a Better Organismal Model: The Role of the Mouse. SICB international meeting.
- November (2005) The mammalian masticatory complex: What's load got to do with it? Plenary Speaker. Midwest Connective Tissue Workshop annual meeting.
- April (2005) Mechanical loading and functional adaptation in the masticatory apparatus. Primate Craniofacial Biology. AAPA annual meeting. *Am. J. Phys. Anthropol. Suppl.* 40:198.
- April (2005) Ontogeny of craniomandibular morphology in lorisiforms. Evolution of Lorisiform Primates. AAPA annual international meeting. *Am. J. Phys. Anthropol. Suppl.* 40:172.
Research findings discussed in 4/22/05 issue of *Science* – “New View of Lorises” 308:491.
- December (2001) Primate origins and the adaptive significance of the primate circumorbital region. Primate Origins and Adaptations. Field Museum & Northwestern University Feinberg School of Medicine.
- December (2001) Primate origins and the adaptive significance of the primate chewing apparatus. Primate Origins and Adaptations. Field Museum & Northwestern University Feinberg School of Medicine.
- April (2001) Significance of evolutionary transformations in the anthropoid masticatory complex. Anthropoid Origins. Carnegie Museum of Natural History.
- October (1997) Anthropoid origins and the modern symphysis. Plenary Session – SVP annual international meeting. *J. Vert. Paleontol.* 17 (Suppl. 3):70A.
- April (1996) Experimental analysis of masticatory function in capuchin monkeys. Mammalian Mastication. AAPA annual international meeting. *Am. J. Phys. Anthropol. Suppl.* 22:194.

Invited International Symposia and Plenary Sessions (cont.)

- April (1996) Mandibular bone-strain and jaw-muscle recruitment patterns during mastication in anthropoids and prosimians. Mammalian Mastication. AAPA annual international meeting. Am. J. Phys. Anthropol. Suppl. 22:128-129.
- April (1996) Evolutionary morphology and its role in the future of physical anthropology. Plenary Session – Future Directions in Physical Anthropology. AAPA annual international meeting. Am. J. Phys. Anthropol. Suppl. 22:194.
- February (1996) Heterochrony and the interface between ontogeny and function. Heterochrony: Merging Evolutionary Perspectives in Paleoanthropology, Paleontology, and Biology. American Association for the Advancement of Science.
- March (1995) What experimental and morphological analyses of primate skull form and function tell us about anthropoid origins. Anthropology and Zoology, University of Toronto.
- August (1993) An ecological perspective on heterochrony and speciation in Malagasy sifakas. Heterochrony and Evolution. European Society for Evolutionary Biology, Univ. Montpellier.
- May (1992) Function and fusion of the mandibular symphysis in primates, with special reference to anthropoids. Anthropoid Origins. Duke University Medical Center.
- April (1991) Heterochrony in extant and extinct Malagasy lemurs. Ontogenetic Perspectives on Primate Evolutionary Biology. AAPA meeting. Am. J. Phys. Anthropol. Suppl. 12:149.

Invited Seminars

- April (2021) Animal models and experimental biology: Applications to understanding humans. Freimann Life Science Center, Comparative Medicine Class, University of Notre Dame.
- February (2020) Animal models and experimental biology: Applications to understanding humans. Freimann Life Science Center, Comparative Medicine Class, University of Notre Dame.
- January (2020) Evolution and biomechanics of the mammalian skull and feeding system. Biological Sciences, Mammalogy Class, University of Notre Dame.
- November (2019) Feeding, function and fossils: You are how you chew. Science Explorer Saturday Series, Seminar and Interactive Presentation, College of Science, University of Notre Dame.
- October (2019) Multidisciplinary approaches to research, education and training in medicine. Pre-Professional Society Seminar Series, College of Science, University of Notre Dame.
- February (2019) Animal models and experimental biology: Applications to understanding humans. Freimann Life Science Center, Comparative Medicine Class, University of Notre Dame.
- January (2019) Evolution and biomechanics of the mammalian skull and feeding system. Biological Sciences, Mammalogy Class, University of Notre Dame.
- April (2018) Intrinsic determinants of morphological variation in the developing skull and limbs. Preprofessional Studies Research Forum. Preprofessional Studies, University of Notre Dame.
- February (2018) Animal models and experimental biology: Applications to understanding humans. Freimann Life Science Center, Comparative Medicine Class, University of Notre Dame.
- January (2018) Evolution and function of the mammalian skull and feeding apparatus. Biological Sciences, Mammalogy Class, University of Notre Dame.
- April (2017) Evolutionary morphology, mechanobiology and pathobiology of the mammalian skull. Scientia Undergraduate Seminar Series, College of Science, University of Notre Dame.
- January (2017) Evolution and function of the mammalian skull and feeding apparatus. Biological Sciences, Mammalogy Class, University of Notre Dame.
- February (2016) Evolution and function of the mammalian skull and feeding apparatus. Biological Sciences, Mammalogy Class, University of Notre Dame.
- February (2014) Integrative approaches to the evolution, development and function of the mammalian skull. Scientia Undergraduate Seminar Series, College of Science, University of Notre Dame.
- January (2014) Evolution and function of the mammalian skull and feeding apparatus. Biological Sciences, Mammalogy Class, University of Notre Dame.
- November (2013) Biomechanics and development of the mammalian skull and feeding apparatus. Department of Anatomy and Cell Biology, Indiana University School of Medicine.
- August (2013) Why mammal skulls are my BFFs: Feeding, function and fossils. Science Explorer Saturday Series, College of Science, University of Notre Dame.
- January (2013) Evolution and function of the mammalian skull and feeding apparatus. Biological Sciences, Mammalogy Class, University of Notre Dame.

Invited Seminars (cont.)

- June (2012) OMG: Why mammal skulls are my BFFs. Summer Undergraduate Research Program, College of Science, University of Notre Dame.
- January (2012) Mammalian skulls are made for chewing. Preprofessional Studies Research Forum. Preprofessional Studies, University of Notre Dame.
- January (2012) Evolution and function of the mammalian skull and feeding apparatus. Biological Sciences, Mammalogy Class, University of Notre Dame.
- September (2011) Evolution and pathobiology of the mammalian skull and feeding apparatus. Aerospace and Mechanical Engineering, University of Notre Dame.
- November (2010) Biomechanics, ontogeny and evolution of the primate skull and feeding complex. Anthropology, University of Missouri.
- September (2010) Function, development and evolution of the mammalian skull: Morphology to molecules. Pathology and Anatomical Sciences, University of Missouri School of Medicine.
- September (2010) Biomechanics, plasticity and evolution of the mammalian skull: Morphology to molecules. Orthodontics and Anthropology, University of Iowa School of Dentistry.
- June (2010) Function, development and evolution of the mammalian skull: Morphology to molecules. Biology, University of Notre Dame.
- April (2010) Introduction for 2010 Charles R. Darwin Lifetime Achievement Award. AAPA annual meeting.
- March (2010) Phenotypic plasticity in the mammalian skull: Morphology to molecules. Evolutionary Anthropology, Duke University.
- February (2009) Plasticity and performance of the skull and feeding apparatus. Anthropology – School of Human Evolution and Social Change Seminar Series, Arizona State University.
- December (2008) Mammalian skulls are made for chewing. Saturday Morning Science at the Life Sciences Center Series, University of Missouri.
- September (2008) Plasticity and performance of mammalian jaw joints. Biological Sciences – Ecology, Evolution and Behavior Seminar Series, University of Missouri-Columbia.
- September (2007) Ontogeny, plasticity and performance of mammalian craniomandibular joints. Biomedical Science, University of Missouri College of Veterinary Medicine.
- March (2007) Development, plasticity and performance of the mammalian mandibular symphysis. Oral Biology, Distinguished Lecturer Series, University of Illinois – Chicago Dental School.
- February (2006) Plasticity, degradation, performance and aging in mammalian craniomandibular joints. Anthropology, University of Illinois.
- January (2006) Adaptation and aging in the mammalian masticatory system. Distinguished Speaker Series, Anatomical Sciences, Northeastern Ohio Universities College of Medicine.
- November (2005) Plasticity, degradation, performance and aging in the mammalian masticatory complex. Cell Biology and Anatomy, Medical University of South Carolina.

Invited Seminars (cont.)

- October (2005) Plasticity, degradation, performance and aging in the mammalian masticatory apparatus. Oral Biology, Medical College of Georgia.
- May (2005) Adaptive plasticity, performance and aging in the mammalian masticatory apparatus. Pathology and Anatomical Sciences, University of Missouri School of Medicine.
- March (2005) Adaptive plasticity and performance in the mammalian masticatory apparatus: An integrative and experimental approach. Anthropology, University of Illinois.
- October (2004) Evolutionary morphology of strepsirrhines: An integrative perspective. Biological Anthropology and Anatomy, Duke University.
- October (2003) Evolution of the anthropoid skull and feeding complex. Anthropology, U. Missouri.
- November (2002) Masticatory function and anthropoid cranial evolution. Anthropology, U. Illinois.
- November (2001) Anthropoid origins and adaptive transformations in the masticatory apparatus. Evolutionary Biology Discussion Group – Geology, Northwestern University.
- April (2001) Primate origins: The craniofacial evidence. Anthropology, Northwestern University.
- November (1998) Primate origins and the function of the postorbital bar. Anthropology, George Washington University.
- April (1998) Anthropoid origins and adaptive transformations in the masticatory apparatus. Anthropology, University of Toronto.
- February (1998) Experimental and comparative evidence regarding anthropoid jaw-loading patterns and adaptations. Biological Sciences, Ohio University.
- December (1997) Evolution of anthropoid skull form and masticatory adaptations. New York Consortium on Evolutionary Primatology, Columbia University.
- October (1997) Anthropoid origins and the modern symphysis. Anthropology, Kent State University.
- May (1996) Function and evolution of mandibular symphyseal fusion in primates and other mammals. Organismal Biology and Anatomy, University of Chicago.
- November (1994) Experimental analyses of primate skull form and function: Present and future directions. Center for Experimental Animal Resources, Northwestern University.
- January (1994) Experimental analyses of skull form and function in galagos: Implications for anthropoid origins. Zoology, Field Museum of Natural History.
- November (1993) Experimental analyses of skull form and function in galagos: Implications for anthropoid origins. Anatomy, Case Western University.
- November (1993) Experimental analyses of primate skull form and function: Implications for anthropoid origins. Anthropology, Yale University.
- March (1993) Experimental analyses of skull form and function in galagos: Implications for anthropoid origins. Evolutionary Morphology Group, Duke University Medical Center.

Invited Seminars (cont.)

- February (1992) Bone strain in the circumorbital region of galagos and macaques: Implications for anthropoid origins. Cell and Molecular Biology, Northwestern University Medical School.
- December (1991) An allometric consideration of subspecific patterns of variation in the skull of slow lorises. Evolutionary Morphology Lunch Group, Duke University Medical Center.
- November (1991) Browridge formation in primates. Anthropology, Northwestern University.
- October (1991) Mandibular symphyseal fusion in primates: The experimental and morphometric data. Anatomy, New York College of Osteopathic Medicine.
- September (1991) Fusion of the mandibular symphysis in primates: The experimental and morphometric data. Anthropology, New York University.
- April (1991) Fusion of the mandibular symphysis in anthropoid primates: The morphometric and experimental data. Anthropology, University of Chicago.
- October (1990) Experimental analyses of skull form in galagos and macaques: Implications for anthropoid origins. Cell and Molecular Biology, Northwestern University Medical School.
- February (1990) Browridge formation in anthropoids. Anthropology, Yale University.
- January (1990) Mandibular allometry and function in prosimian primates. Duke University Primate Center.
- November (1989) Mandibular function and scaling in prosimian primates. Greater Chicago Primate Group, Northwestern University Medical School.
- November (1988) Perspectives on human evolution. Chicago Sierra Club.

Abstracts and Contributed Presentations

- Lad, S.E., Kowalkowski, H., Liggio, D.F., Ding, H. & Ravosa, M.J. (2022) The number of daily load cycles positively influences Haversian remodeling in jaws of New Zealand white rabbits (*Oryctolagus cuniculus*). American Association of Biological Anthropologists (AABA, formerly AAPA) annual international meeting. A.J.P.A. Supplement.
- Lad, S.E., Ding, H., Anderson, R.J., Aberger, W.W., Alvarez, C.E., Couri, J.C., Heming, O.P., Liggio, D.F., Lockie, F.T., McKinnon, J.M., Morris, H.M., Thornton, T.J. & Ravosa, M.J. (2021) Daily feeding modality and saturation response in the skulls of New Zealand white rabbits (*Oryctolagus cuniculus*). AAPA annual international meeting. A.J.P.A. Supplement.
- Lad, S.E., Cortese, S.A., Danison, A.D. & Ravosa, M.J. (2020) Bone remodeling response to cyclical loading in the maxilla of New Zealand white rabbits (*Oryctolagus cuniculus*). SICB annual international meeting.
- Lad, S.E., Cortese, S.A., Morris, H., Danison, A.D. & Ravosa, M.J. (2019) Bone remodeling and cyclical loading in the maxilla of white rabbits (*Oryctolagus cuniculus*). COSE-JAM Annual Graduate Student and Postdoctoral Fellow Research Conference, University of Notre Dame.
- Nett, E.M., Jaglowski, B.A., Ravosa, L.J., Ravosa, D.D. & Ravosa, M.J. (2019) Food mechanical properties and masticatory behavior in llamas. COSE-JAM Annual Graduate Student and Postdoctoral Fellow Research Conference, University of Notre Dame.
- Márquez Reyes, N., Nett, E.M. & Ravosa, M.J. (2018) MicroCT analysis of bone quantity and bone quality in the lizard skull. Annual Biomedical Research Conference for Minority Students (ABRCMS). Indianapolis, Indiana.
- Nett, E.M. & Ravosa, M.J. (2018) Eyes without a Face: Ontogeny of orbit orientation in primates. COSE-JAM Annual Graduate Student and Postdoctoral Fellow Research Conference, University of Notre Dame.
- Ravosa, M.J., Coiner-Collier, S., Holton, N.E., Franks, E.M., Lemkuil, A.M. & McGough, E.B. (2018) Inside out: Intrinsic determinants of morphological variation in the developing skeleton. AAPA annual international meeting. Am. J. Phys. Anthropol. Suppl. 66:222.
- Vinyard, C.J. & Ravosa, M.J. (2018) The weakest link: Performance and fusion of the primate mandibular symphysis. AAPA annual international meeting. Am. J. Phys. Anthropol. Suppl. 66:290.
- Coiner-Collier, S., Portmann, G., Howe, N., Ding, H., Fling, A.L. & Ravosa, M.J. (2018) Deja chew: Dietary food mechanical properties influence masticatory behavior in primates. AAPA annual international meeting. Am. J. Phys. Anthropol. Suppl. 66:51.
- Nett, E.M. & Ravosa, M.J. (2018) Eyes without a Face: Ontogeny of orbit orientation in primates. AAPA annual international meeting. Am. J. Phys. Anthropol. Suppl. 66:188.
- Klymenko, Y., Wates, R., Liu, Y., Lombard, R., Weiss-Bilka, H., Campbell, L., Wagner, D., Ravosa, M.J. & Stack, M.S. (2018) Modeling ascites-induced changes in peritoneal mechanobiology and ovarian cancer metastatic success. Proceedings of the AACR Conference: Addressing Critical Questions in Ovarian Cancer Research and Treatment: American Association of Cancer Research international meeting. Clinical Cancer Research 24 (Suppl. 15): Abstract A38.
- Coiner-Collier, S., Ding, H., Howe, N., Portmann, G., Fling, A.L. & Ravosa, M.J. (2017) Dietary food mechanical properties influence masticatory behavior in primates. COSE-JAM Annual Graduate Student and Postdoctoral Fellow Research Conference, University of Notre Dame.

Abstracts and Contributed Presentations (cont.)

- Coiner-Collier, S.F., Pasquinely, A.C. & Ravosa, M.J. (2017) Cross-sectional geometry of the mandibular corpus and food mechanical properties in extant primates. COSE-JAM Annual Graduate Student and Postdoctoral Fellow Research Conference, University of Notre Dame.
- Brill, J.A., Weiss-Bilka, H.E. & Ravosa, M.J. (2017) Make no bones without it: Characterization of region-specific behaviors in non-sutural cranial osteoblasts using bone morphogenetic proteins. COS-JAM Annual Undergraduate Research Conference, University of Notre Dame.
- Ramos, K., Portmann, G., Vinyard, C.J. & Ravosa, M.J. (2017) Deja food: Diet and mandibular biomechanics in carnivorous and folivorous mammals. COS-JAM Annual Undergraduate Research Conference, University of Notre Dame.
- Brady, E.M., Wellendorf, R.B., White, M.S., Gilmore, G.B., Rink, J.T., McAbee, K.R., Niebur, G.L., Ovaert, T.C. & Ravosa, M.J. (2017) Early diagnosis of osteonecrosis of the jaw in response to bisphosphonate therapy. COS-JAM Undergraduate Research Conference, Univ. of Notre Dame.
- Lombard, R., Klymenko, Y., Weiss-Bilka, H., Campbell, L., Ravosa, M.J. & Stack, M.S. (2017) Compression-induced cadherin shifts in ovarian cancer multicellular aggregates. COS-JAM Undergraduate Research Conference, University of Notre Dame.
- Eveld, M., Mirabile, B., Niebur, G.L. & Ravosa, M.J. (2017) Rabbit model of osteonecrosis of the jaw: Mandibular bending strength and the role of bisphosphonate therapy. College of Engineering Annual Undergraduate Research Symposium, University of Notre Dame.
- Brill, J.A., Weiss-Bilka, H.E. & Ravosa, M.J. (2017) Make no bones without it: Characterization of region-specific behaviors in non-sutural cranial osteoblasts using bone morphogenetic proteins. AAPA annual international meeting. *Am. J. Phys. Anthropol. Suppl.* 64:129.
- Coiner-Collier, S.F., Pasquinely, A.C. & Ravosa, M.J. (2017) Cross-sectional geometry of the mandibular corpus and food mechanical properties in extant primates. AAPA annual international meeting. *Am. J. Phys. Anthropol. Suppl.* 64:147.
- Franks, E.M., Scott, J.E., Scollan J.P., McAbee K.R. & Ravosa, M.J. (2017) Game of bones: Intracranial and hierarchical perspective on dietary plasticity in mammals. AAPA annual international meeting. *Am. J. Phys. Anthropol. Suppl.* 64:185.
- Ravosa, M.J., Coiner-Collier, S.F., McAbee, K.R. & Fling, A.L. (2017) Dietary properties, chewing patterns and cyclical loading: It's wicked hard always being tough. AAPA annual international meeting. *Am. J. Phys. Anthropol. Suppl.* 64:328.
- Pasquinely, A.C., Portman, K.A., Sheridan, S.G. & Ravosa, M.J. (2017) Bulging biceps: MicroCT analysis of enthesal changes at Byzantine St. Stephen's monastery, Jerusalem. AAPA annual international meeting. *Am. J. Phys. Anthropol. Suppl.* 64:310.
- Lombard, R., Klymenko, Y., Weiss-Bilka, H., Campbell, L., Ravosa, M.J. & Stack, M.S. (2017) Compression-induced cadherin shifts in ovarian cancer multicellular aggregates. Harper Cancer Research Institute annual research day, University of Notre Dame.
- Menegaz, R.A. & Ravosa, M.J. (2016) Craniofacial growth and dietary variability in an experimental model for primate fallback food use. AAPA meeting. *Am. J. Phys. Anthropol. Suppl.*, 62:226-227.
- Thompson, K.D., Weiss-Bilka, H.E., McGough, E.B. & Ravosa, M.J. (2016) Bone up: Craniomandibular development and hard-tissue biomineralization in neonate mice. Indiana CTSI annual meeting.

Abstracts and Contributed Presentations (cont.)

- McAbee, K.R., Brady, E.M., Rink, J.T., Wellendorf, R.B., White, M.S., Niebur, G.L., Ovaert, T.C. & Ravosa, M.J. (2016) Cancer bisphosphonate therapy and the pathobiology of osteonecrosis of the jaw: In vivo integrative approach to the 1st long-term animal model. Indiana CTSI meeting.
- Franks, E.M., Holton, N.E., Scott, J.E., McAbee, K.R., Rink, J.T., Scollan, J.P., Eastman, M.M. & Ravosa, M.J. (2016) Betwixt and between: Intracranial perspective on zygomatic arch plasticity and function in mammals. Indiana CTSI annual meeting.
- Weiss-Bilka, H.E., Thompson, K.D., Brill, J.A., Archer, W. & Ravosa, M.J. (2016) Cranial chameleons: Site-specific characteristics of osteoblasts and extracellular matrices in the mammalian skull. Indiana CTSI annual meeting.
- Loughran, E., Phan, R., Leonard, A., Tarwater, L., Asem, M., Liu, Y., Yang, J., Klymenko, Y., Johnson, J., Shi, Z., Blumenthaler, M., Leevy, M., Ravosa, M.J. & Stack, M.S. (2016) The impact of parity on the metastatic success of ovarian cancer. Indiana CTSI annual meeting.
- Weiss-Bilka, H.E., Thompson, K.D., Archer, W. & Ravosa, M.J. (2016) Location is everything: Characterizing regional differences in cranial bones with EM. NDIIF Midwest Imaging and Microanalysis Workshop, University of Notre Dame.
- Brill, J.A., Weiss-Bilka, H.E. & Ravosa, M.J. (2016) Make no bones without it: Characterization of region-specific behaviors in non-sutural cranial osteoblasts using bone morphogenetic proteins. College of Engineering Annual Undergraduate Research Symposium, University of Notre Dame.
- Conard, G., Fraser, M.E., Park, C., Zolman, N., Sonnen, A., Yu, X., Dickas, E., Ravosa, M.J. & Fox, M.D. (2016) Continuity of diabetic management in the Navari Student-Outreach Clinic. Society of Student Run Free Clinics annual national meeting.
- Fraser, M.E., Conard, G., Good, C., Whalen, L., Yemc, M., Connolly, P., Ravosa, M.J. & Fox, M.D. (2016) Time utilization in goal-directed service at the Navari Student Outreach Clinic. Society of Student Run Free Clinics annual national meeting.
- Eveld, M., Mirabile, B., Niebur, G.L. & Ravosa, M.J. (2016) Rabbit model of osteonecrosis of the jaw. College of Engineering Annual Undergraduate Research Symposium, University of Notre Dame.
- Rink, J.T., Franks, E.M., Holton, N.E., Scott, J.E., McAbee, K.R., Scollan, J.P., Eastman, M.M. & Ravosa, M.J. (2016) Betwixt and between: Intracranial perspective on zygomatic arch plasticity and function in mammals. COS-JAM annual undergraduate meeting, University of Notre Dame.
- McGough, E.B., Thompson, K.D. & Ravosa, M.J. (2016) Bone up: Craniomandibular development and hard-tissue biomineralization in neonate mice. COS-JAM, University of Notre Dame.
- Wiley, Z.C., Fu, H.C., Niebur, G.L. & Ravosa, M.J. (2016) Down the rabbit hole: Computer-based modeling and validation of mandibular performance. COS-JAM, University of Notre Dame.
- McAbee, K.R., Fling, A.L., Santanello, A.J., Veit, A.J., Niebur, G.L., Ovaert, T.C. & Ravosa, M.J. (2016) Cancer bisphosphonate therapy and the pathobiology of osteonecrosis of the jaw: An in vivo multidisciplinary approach to the first long-term animal model. Harper Cancer Research Institute (HCRI) annual research day, University of Notre Dame.
- Loughran, E., Phan, R., Leonard, A., Tarwater, L., Asem, M., Liu, Y., Yang, J., Klymenko, Y., Johnson, J., Shi, Z., Blumenthaler, M., Leevy, M., Ravosa, M. & Stack, M.S. (2016) The impact of parity on the metastatic success of ovarian cancer. HCRI research day, U of ND.

Abstracts and Contributed Presentations (cont.)

- Loughran, E.A., Phan, R., Leonard, A.K., Tarwater, L., Asem, M., Klymenko, Y., Liu, Y., Yang, J., Johnson, J., Shi, Z., Blumenthaler, M., Leevy, W.M., Ravosa, M.J. & Stack, M.S. (2015) The impact of parity on the metastatic success of ovarian cancer. Advances in Ovarian Cancer Research: American Association of Cancer Research annual international meeting.
- Weiss-Bilka, H.E., Mazur, M.M., Brill, J.A., Liu, S.S.-Y. & Ravosa, M.J. (2015) Location matters: Variation in non-sutural cranial osteoblast behavior is a function of embryological precursor, ossification mode and anatomical origin. Indiana CTSI meeting. (Winner – Best Presentation)
- Weiss-Bilka, H.E., Mazur, M.M., Liu, S. S-Y. & Ravosa, M.J. (2015) Not all osteoblasts are created equal: How anatomy, embryology and ossification mode affect non-sutural osteoblast behavior in the developing skull. Translational Science Annual Meeting. Clinical and Translational Science 8:178-258. (Selected nationwide for oral presentation by a postdoctoral fellow)
- Mazur, M.M., Weiss-Bilka, H.E., Liu, S. S-Y. & Ravosa, M.J. (2015) Expanding your horizons: Modeling the role of regional differences in bone formation during neutral growth. College of Engineering Annual Undergraduate Research Conference, University of Notre Dame.
- Brill, J.A., Weiss-Bilka, H.E., Liu, S. S-Y. & Ravosa, M.J. (2015) Make no bones without it: Induced mineralization of basicranial osteoblasts under 3D chondrogenic conditions. COS-JAM Annual Undergraduate Research Conference, University of Notre Dame.
- Riccelli, V., Szentirmai, A., Vinyard, C.J. & Ravosa, M.J. (2015) Bitter and twisted: Analysis of diet and torsional resistance in the mandibles of strepsirrhine primates. COS-JAM Annual Undergraduate Research Conference, University of Notre Dame.
- Siegel, N.D., Ravosa, M.J. & Vinyard, C.J. (2015) Functional scaling trends in the trabecular architecture of the mandibular condyle of strepsirrhine primates. AAPA annual international meeting. Am. J. Phys. Anthropol. Suppl. 60:287.
- Franks, E.M., Scollan, J.P., Shariff, F.S., Scott, J.E., McAbee, K.R. & Ravosa, M.J. (2015) Biting off more than you can chew: A regional assessment of diet-induced plasticity. AAPA annual international meeting. Am. J. Phys. Anthropol. Suppl. 60:137.
- Ravosa, M.J., Weiss-Bilka, H.E., Mazur, M.M. & Liu, S.S.-Y. (2015) Got a bone to pick? Functional implications of intracranial variation in osteoblast behavior. AAPA annual international meeting. Am. J. Phys. Anthropol. Suppl. 60:262.
- Congdon, K.A. & Ravosa, M.J. (2015) Hands up: Pedal digit use during arboreal quadrupedalism and bipedalism in *Propithecus coquereli*. AAPA meeting. Am. J. Phys. Anthropol. Suppl. 60:108.
- Riccelli, V., Szentirmai, A., Vinyard, C.J. & Ravosa, M.J. (2014) Are you really what you eat? Cross-sectional bone distribution in the mandibles of strepsirrhine primates. COS-JAM Annual Undergraduate Research Conference, University of Notre Dame.
- Lee, E., Vinyard, C.J. & Ravosa, M.J. (2014) Feeding frenzy: Diet and symphyseal biomechanics in strepsirrhine primates. COS-JAM Undergraduate Research Conference, Univ. of Notre Dame.
- Fling, A., McAbee, K.R., Scott, J.E. & Ravosa, M.J. (2014) Hard to swallow – Role of food material properties on chewing patterns in mammals. COS-JAM Undergrad Research, U. Notre Dame.
- Weiss-Bilka, H.E., Liu, S.S.-Y. & Ravosa, M.J. (2014) Intracranial analysis of non-sutural osteoblast mechanobiology in the developing mammal skull. Biomedical Engineering Society meeting.

Abstracts and Contributed Presentations (cont.)

- Scollan, J.P., Franks, E.M., McAbee, K.R., Scott, J.E. & Ravosa, M.J. (2014) Getting it through a thick skull: Diet-induced integration and evolution of the skull in a rabbit model. COS-JAM Annual Undergraduate Research Conference, University of Notre Dame.
- Weiss-Bilka, H.E., Mazur, M.M., Liu, S.S.-Y. & Ravosa, M.J. (2014) Site-specific variation in non-sutural cranial osteoblast behavior: The influence of location, embryological origin and applied strain. Indiana CTSI annual meeting.
- Scott, J.E., Eastman, M.M., McAbee, K.R. & Ravosa, M.J. (2014) Is timing everything? Late versus early developmental effects of changes in dietary properties on jaw growth in an animal model. AAPA international meeting. *Am. J. Phys. Anthropol. Suppl.* 58:234-235.
- Ravosa, M.J. & Congdon, K.A. (2014) The use of pressure-sensing technology in the study of primate arboreality. AAPA international meeting. *Am. J. Phys. Anthropol. Suppl.* 58:217-218.
- Congdon, K.A. & Ravosa, M.J. (2014) Get a grip: How does arboreal substrate orientation affect hand and foot use in primates? AAPA meeting. *Am. J. Phys. Anthropol. Suppl.* 58:96.
- Mancini, A.G., Hlavaty, J., McAbee, K.R., Scott, J.E. & Ravosa, M.J. (2013) May the force be with you: Dietary seasonality and adaptive plasticity in mammals. Midwest Ecology and Evolution Conference (MEEC), University of Notre Dame.
- Franks, E.M., Scott, J.E., McAbee, K.R. & Ravosa, M.J. (2013) A force to be reckoned with: Seasonality, plasticity and mammalian skull form. MEEC – University of Notre Dame.
- Scott, J.E., Eastman, M.M., Hlavaty, J., Mancini, A.G., Murray, D., Scollan, J.P., McAbee, K.R. & Ravosa, M.J. (2013) It's the time of the season for extra chewing: Temporal variation in diet and phenotypic plasticity in masticatory elements. MEEC – University of Notre Dame.
- Menegaz, R.A., Szczodroski, A.F., Rold, T.L., Hoffman, T.J. & Ravosa, M.J. (2014) Ontogenetic variation in diet affects mammalian mandibular morphology. SICB international meeting.
- Vinyard, C.J. & Ravosa, M.J. (2013) The relationship between mandibular symphyseal performance and jaw-muscle activity during chewing in primates. Int. Congress on Vertebrate Morphology.
- Stechschulte, M., Scott, J.E. & Ravosa, M.J. (2013) My, what big jaws you have: Feeding behavior and mandibular function in Feliformia. COS-JAM Conference, University of Notre Dame.
- Mancini, A.G., McAbee, K.R., Kane, R. & Ravosa, M.J. (2013) Cortisol and cartilage: How corticosteroids influence cartilage breakdown in mammals. COS-JAM Conference, Univ. Notre Dame.
- Hlavaty, J., Mancini, A.G., Franks, E.M., Eastman, M.M., Scollan, J.P., McAbee, K.R., Scott, J.E. & Ravosa, M.J. (2013) May the force be with you: Dietary seasonality and adaptive plasticity in mammals. COS-JAM Annual Undergraduate Research Conference, University of Notre Dame.
- Menegaz, R.A., Szczodroski, A.F., Rold, T.L., Hoffman, T.J. & Ravosa, M.J. (2013) Cranio-mandibular variation in an experimental model for primate dietary variability. AAPA annual international meeting. *Am. J. Phys. Anthropol. Suppl.* 56:196-197.
- Scott, J.E., Eastman, M.M., Hlavaty, J., Mancini, A.G., Murray, D., Scollan, J.P., McAbee, K.R. & Ravosa, M.J. (2013) It's the time of the season for extra chewing: Temporal variation in diet and phenotypic plasticity in masticatory elements. AAPA. *Am. J. Phys. Anthropol. Suppl.* 56:248.

Abstracts and Contributed Presentations (cont.)

- Lack, J.B., Scott, J.E., Hogue, A.S. & Ravosa, M.J. (2012) Never going back again? On the reversibility of mandibular symphyseal fusion. AAPA meeting. *Am. J. Phys. Anthropol. Suppl.* 54:187.
- Anderson, C.K., Ning, J., Stock, S.R., Stack, M.S. & Ravosa, M.J. (2011) Development and function of the mandibular symphysis in mammals. *Life Sciences Week*. University of Missouri.
- Anderson, C.K., Ning, J., Stock, S.R., Stack, M.S. & Ravosa, M.J. (2010) Development and function of the mandibular symphysis in mammals. *Health Sciences Research Day*. MU Medical School.
- Ravosa, M.J., Ross, C.F., Costley, D.B., Williams, S.H., Herring, S.W., Liu, Z.J., Rafferty, K.L. & Hylander, W.L. (2010) Allometry of masticatory loading parameters in primate and non-primate mammals. AAPA annual international meeting. *Am. J. Phys. Anthropol. Suppl.* 50:195.
- Menegaz, R.A., Sublett, S.V., Figueroa, S.D., Hoffman, T.J. & Ravosa, M.J. (2010) Craniofacial developmental instability and masticatory behavior. AAPA. *Am. J. Phys. Anthropol. Suppl.* 50:168.
- Ning, J., Congdon, K.A., Hammond, A.S. & Ravosa, M.J. (2010) Limb loading and joint plasticity: The forelimb perspective. AAPA annual meeting. *Am. J. Phys. Anthropol. Suppl.* 50:178.
- López, E.K., Chenn, A., Taketo, M.M. & Ravosa, M.J. (2010) The influence of relative brain size on basicranial morphology in a mouse model of prenatal encephalization. AAPA annual international meeting. *Am. J. Phys. Anthropol. Suppl.* 50:157.
- Hogg, R.T., Ravosa, M.J., Vinyard, C.J. & Ryan, T.M. (2010) Adaptations to tree-gouging in the anterior masticatory apparatus of marmosets (*Callithrix*). AAPA annual international meeting. *Am. J. Phys. Anthropol. Suppl.* 50:129-130.
- Ning, J., Liu, Y-Y., Stack, M.S. & Ravosa, M.J. (2010) Bisphosphonate therapy, wound healing and the pathobiology of osteonecrosis of the jaw (ONJ). *Life Sciences Week*. University of Missouri Life Sciences Center.
- Menegaz, R.A., Sublett, S.V., Figueroa, S.D., Hoffman, T.J. & Ravosa, M.J. (2010) Craniofacial developmental instability and masticatory behavior. *Life Sciences Week*. MU LS Center.
- Hogg, R.T., Ravosa, M.J., Vinyard, C.J. & Ryan, T.M. (2010) Adaptations to tree-gouging in the anterior masticatory apparatus of marmosets (*Callithrix*). *Life Sciences Week*. University of Missouri Life Sciences Center.
- Daniel, A.N., Ning, J., Stock, S.R., Stack, M.S. & Ravosa, M.J. (2010) Plasticity of the temporomandibular joint in rabbits. *Life Sciences Week*. University of Missouri Life Sciences Center.
- Congdon, K.A., Ning, J., Hammond, A.S. & Ravosa, M.J. (2009) Limb loading and joint plasticity: The forelimb perspective. *Health Sciences Research Day*. U. of Missouri School of Medicine.
- Hogg, R.T., Ravosa, M.J., Vinyard, C.J. & Ryan, T.M. (2009) Adaptations to tree-gouging in the anterior masticatory apparatus of marmosets (*Callithrix*). *Health Sciences Research Day*. University of Missouri School of Medicine.
- Menegaz, R.A., Sublett, S.V., Figueroa, S.D., Hoffman, T.J. & Ravosa, M.J. (2009) Craniofacial developmental instability and masticatory behavior. *Health Sciences Research Day*. University of Missouri School of Medicine.

Abstracts and Contributed Presentations (cont.)

- Daniel, A.N., Ning, J., Stock, S.R., Stack, M.S. & Ravosa, M.J. (2009) Plasticity of the temporomandibular joint in rabbits. Health Sciences Research Day. U. Missouri School of Medicine.
- Ning, J., Liu, Y-Y., Stack, M.S. & Ravosa, M.J. (2009) Bisphosphonate therapy, wound healing and the pathobiology of osteonecrosis of the jaw (ONJ). Health Sciences Research Day. University of Missouri School of Medicine.
- Daniel, A.N., Ning, J., Stock, S.R., Stack, M.S. & Ravosa, M.J. (2009) Plasticity of the temporomandibular joint in rabbits. U. of Missouri summer conference of LS UROP science interns.
- Daniel, A.N., Costley, D.B., Phillips, W.N., Rohlfing, A.J., Ning, J., Stack, M.S. & Ravosa, M.J. (2009) Effects of dietary properties on jaw-muscle growth, proportions and biochemistry. Life Sciences Week. University of Missouri Life Sciences Center.
- Jašarević, E., Ning, J., Menegaz, R.A., Johnson, J.J., Stack, M.S. & Ravosa, M.J. (2009) Masticatory loading, function and plasticity of the mammalian circumorbital region. Life Sciences Week. University of Missouri Life Sciences Center.
- Menegaz, R.A., Sublett, S.V., Figueroa, S.D., Hoffman, T.J., Ravosa, M.J. & Aldridge, K. (2009) Influence of diet on cranial growth and form. Life Sciences Week. MU Life Sciences Center.
- Hammond, A.S., Ning, J., Ward, C.V. & Ravosa, M.J. (2009) Impacts of endurance exercise on chondral modeling during growth. Life Sciences Week. MU Life Sciences Center.
- Costley, D.B., Ross, C.F., Dharia, R., Herring, S.W., Williams, S.H., Hylander, W.L., Liu, Z.-J., Rafferty, K.L. & Ravosa, M.J. (2009) Variation in masticatory loading parameters across mammals. Life Sciences Week. University of Missouri Life Sciences Center.
- Johnson, J.J., Ghosh, S., Koblinski, J., Liu, Y.Y., Ericsson, A., Davis, J.W., Shi, Z., Frazier, S., Ravosa, M.J., Crawford S. & Stack, M.S. (2009) Evaluating the link between uPAR overexpression, Nf-kB activation, and invasive OSCC. U. of Missouri Life Sciences Week.
- Bastir, M., Rosas, A., Stringer, C., Manuel de la Cuétara, J.M., Kruszynski, R., Ross, C.F. & Ravosa, M.J. (2009) Basicranial flexion in the evolution of *Homo*: New analyses of an old model. AAPA annual international meeting. Am. J. Phys. Anthropol. Suppl. 48:118.
- Menegaz, R.A., Sublett, S.V., Figueroa, S.D., Hoffman, T.J., Ravosa, M.J. & Aldridge, K. (2009) Evidence for the influence of diet on cranial form and robusticity. AAPA annual international meeting. Am. J. Phys. Anthropol. Suppl. 48:289.
- Hammond, A.S., Ning, J., Ward, C.V. & Ravosa, M.J. (2009) Mammalian limb loading and chondral modeling during ontogeny. AAPA meeting. Am. J. Phys. Anthropol. Suppl. 48:216.
- Jašarević, E., Ning, J., Menegaz, R.A., Johnson, J.J., Stack, M.S. & Ravosa, M.J. (2009) Masticatory loading, function and plasticity of the mammalian circumorbital region. AAPA annual international meeting. Am. J. Phys. Anthropol. Suppl. 48:239.
- Menegaz, R.A., Sublett, S.V., Figueroa, S.D., Hoffman, T.J. & Ravosa, M.J. (2008) Loaded and spaced out: Plasticity and function of the palate in rabbits, with implications for australopith facial form. AAPA annual international meeting. Am. J. Phys. Anthropol. Suppl. 46:154. (Winner of Mildred Trotter Award for Best Student Presentation on Skeletal Biology)

Abstracts and Contributed Presentations (cont.)

- Nicholson, E.K., Stock, S.R., Chenn, A. & Ravosa, M.J. (2008) A novel transgenic mouse model for primate fetal encephalization and craniofacial development. AAPA annual international meeting. *Am. J. Phys. Anthropol. Suppl.* 46:162. (Winner of William Pollitzer Travel Award)
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64. Ravosa, M.J., Hogg, R.T. & Vinyard, C.J. (2010) Exudativory and primate skull form. A.M. Burrows & L.T. Nash (Eds.): *Evolution of Exudativory in Primates*. New York: Springer, pp. 169-185.
63. Ghosh, S., Koblinski, J.K., Johnson, J.J., Liu, Y., Frazier, S., Ericsson, A., Shi, Z., Ravosa, M.J., Crawford, S. & Stack, M.S. (2010) Urinary-type plasminogen activator receptor (uPA/R)/ $\alpha 3\beta 1$ integrin signaling and oral tumor progression. *Mol. Cancer Res.* 8:145-158.
62. Ravosa, M.J. & Daniel, A.N. (2010) Ontogeny and phyletic size change in living and fossil lemurs. *Am. J. Primatol.* 72:161-172. (Invited Symposium on Body Size in Primate Biology)
61. Ravosa, M.J., Daniel, A.N. & Costley, D.B. (2010) Allometry and evolution in the galago skull. *Folia Primatol.* 81:177-196.
60. Bastir, M., Rosas, A., Stringer, C., Cuétara, J.M., Kruszynski, R., Weber, G.W., Ross, C.F. & Ravosa, M.J. (2010) The effects of brain and facial size on the evolution of the basicranium in *Homo*. *J. Human Evol.* 58:424-431.
59. Menegaz, R.A., Sublett, S.V., Figueroa, S.D., Hoffman, T.J. & Ravosa, M.J. (2009) Phenotypic plasticity and function of the hard palate in growing rabbits. *Anat. Record* 292A:277-284.

Journal Articles and Book Chapters (cont.)

58. Pettus, J.R., Johnson, J.J., Shi, Z., Davis, J.W., Koblinski, J.K., Ghosh, S., Liu, Y., Ravosa, M.J., Frazier, S. & Stack, M.S. (2009) Multiple kallikrein (KLK 5, 7, 8, and 10) expression in squamous cell carcinoma of the oral cavity. *Histol. Histopathol.* 24:197-207.
57. Ravosa, M.J., López, E.K., Menegaz, R.A., Stock, S.R., Stack, M.S. & Hamrick, M.W. (2008) Adaptive plasticity in the mammalian masticatory complex: You are what, and how, you eat. C.J. Vinyard, M.J. Ravosa & C.E. Wall (Eds.): *Primate Craniofacial Biology and Function*. New York: Springer Academic Publishers, pp. 293-328. (Invited Symposium on Skull Form)
56. López, E.K., Stock, S.R., Taketo, M.M., Chen, A. & Ravosa, M.J. (2008) A novel transgenic mouse model for fetal encephalization and cranial development. *Int. Comp. Biol.* 48:360-372. (Invited Symposium on Building a Better Organismal Model: The Role of the Mouse)
55. Ravosa, M.J., López, E.K., Menegaz, R.A., Stock, S.R., Stack, M.S. & Hamrick, M.W. (2008) Using “Mighty Mouse” to understand masticatory plasticity: Myostatin-deficient mice and musculoskeletal function. *Int. Comp. Biol.* 48:345-359. (Invited Symposium: Mouse Models)
54. López, E.K.N., Stock, S.R., Taketo, M.M., Chen, A. & Ravosa, M.J. (2008) MicroCT and microMRI imaging of a prenatal mouse model of increased brain size. *Developments in X-Ray Tomography VI. 6th Proceedings of SPIE-Int. Soc. Optical Engineering.* 7078:1-12.
53. Ross, C.F., Dharia, R., Herring, S.W., Hylander, W.L., Liu, Z.-J., Rafferty, K.L., Ravosa, M.J. & Williams, S.H. (2007) How do mammals chew harder? Modulation of mandibular corpus bone strain in mammals during mastication. *J. Exp. Biol.* 210:1046-1063. (Winner of Nakamura Prize for Best Poster at 2006 International Mastication Symposium).
52. Ravosa, M.J. (2007) Cranial ontogeny, diet and ecogeographic variation in African lorises. *Am. J. Primatol.* 69:59-73. (Original Invited Symposium Contribution on Lorisiform Evolution – see also commentary in April 22, 2005 issue of *Science* “New View of Lorises” 308:491)
51. Ravosa, M.J., Kunwar, R., Stock, S.R. & Stack, M.S. (2007) Pushing the limit: Masticatory stress and adaptive plasticity in mammalian craniomandibular joints. *J. Exp. Biol.* 210:628-641. (See also accompanying article in same issue – Inside JEB. Hard diets build bone. 210:ii-iii)
50. Ravosa, M.J., Stock, S.R., Simons, E.L. & Kunwar, R. (2007) MicroCT analysis of symphyseal ontogeny in *Archaeolemur*. *Int. J. Primatol.* 28:1385-1396.
49. Ravosa, M.J., Klopp, E.B., Pinchoff, J., Stock, S.R. & Hamrick, M.W. (2007) Plasticity of mandibular biomineralization in myostatin-deficient mice. *J. Morphol.* 268:275-282.
48. Vinyard, C.J., Ravosa, M.J., Williams, S.H., Wall, C.E., Johnson, K.R. & Hylander, W.L. (2006) Jaw muscle function and the origin of primates. M.J. Ravosa & M. Dagosto (Eds.): *Primate Origins: Adaptations and Evolution*. New York: Springer Publishers, pp. 179-231.
47. Ravosa, M.J., Savakova, D.G., Johnson, K.R. & Hylander, W.L. (2006) Primate origins and the function of the circumorbital region: What’s load got to do with it? M.J. Ravosa & M. Dagosto (Eds.): *Primate Origins: Adaptations and Evolution*. NY: Springer, pp. 285-328.
46. Nicholson, E.K., Stock, S.R., Hamrick, M.W. & Ravosa, M.J. (2006) Biomineralization and adaptive plasticity of the TMJ in myostatin knockout mice. *Arch. Oral Biol.* 51:37-49.
45. Taylor, A.B., Jones, K.E., Kunwar, R. & Ravosa, M.J. (2006) Dietary consistency and plasticity of masseter fiber architecture in postweaning rabbits. *Anat. Record* 288A:1105-1111.

Journal Articles and Book Chapters (cont.)

44. Ravosa, M.J., Kunwar, R., Nicholson, E.K., Klopp, E.B., Pinchoff, J., Stock, S.R., Stack, M.S. & Hamrick, M.W. (2006) Adaptive plasticity in mammalian masticatory joints. *Developments in X-Ray Tomography V. 5th Proceedings of SPIE-Int. Soc. Optical Engineering* 6318:1-9.
43. Hylander, W.L., Wall, C.E., Vinyard, C.J., Ross, C.F., Ravosa, M.J., Williams, S.H. & Johnson, K.R. (2005) Temporalis function in anthropoids and strepsirrhines: An EMG Study. *Am. J. Phys. Anthropol.* 128:35-56.
42. Hylander, W.L., Vinyard, C.J., Ravosa, M.J., Ross, C.F., Wall, C.E. & Johnson, K.R. (2004) Jaw adductor force and symphyseal fusion. F. Anapol, R. German & N. Jablonski (Eds.): *Shaping Primate Evolution. Form, Function and Behavior*. Cambridge: Cambridge University Press, pp. 229-257.
41. Ravosa, M.J. & Hogue, A.S. (2004) Function and fusion of the mandibular symphysis in mammals: A comparative and experimental perspective. C.F. Ross & R.F. Kay (Eds.): *Anthropoid Evolution. New Visions*. New York: Kluwer Academic/Plenum Publishers, pp. 413-462.
40. Ravosa, M.J. & Savakova, D.G. (2004) Euprimate origins: The eyes have it. *J. Human Evol.* 46:355-362. (News and Views – Feature Article)
39. Ross, C.F., Henneberg, M., Ravosa, M.J. & Richard, S. (2004) Curvilinear, geometric and phylogenetic modeling of basicranial flexion: Is it adaptive, is it constrained? *J. Human Evol.* 46:185-213.
38. Ravosa, M.J. & Vinyard, C.J. (2002) On the interface between ontogeny and function. J.M. Plavcan, R.F. Kay, W.L. Jungers & C.P. van Schaik (Eds.): *Reconstructing Behavior in the Primate Fossil Record*. New York: Plenum Press, pp. 73-111.
37. Hogue, A.S. & Ravosa, M.J. (2001) Transverse masticatory movements, occlusal orientation, and symphyseal fusion in selenodont artiodactyls. *J. Morphol.* 249:221-241.
36. Ravosa, M.J., Vinyard, C.J., Gagnon, M. & Islam, S.A. (2000) Evolution of anthropoid jaw loading and kinematic patterns. *Am. J. Phys. Anthropol.* 112:493-516.
35. Ravosa, M.J. (2000) Size and scaling in the mandible of living and extinct apes. *Folia Primatol.* 71:305-322.
34. Hylander, W.L., Ravosa, M.J., Ross, C.F., Wall, C.E. & Johnson, K.R. (2000) Symphyseal fusion and jaw-adductor muscle force: An EMG study. *Am. J. Phys. Anthropol.* 112:469-492.
33. Ravosa, M.J. & Profant, L.P. (2000) Evolutionary morphology of the skull in Old World monkeys. P.F. Whitehead & C.J. Jolly (Eds.): *Old World Monkeys*. Cambridge: Cambridge University Press, pp. 237-268.
32. Yoder, A.D., Rasoloarison, R.M., Goodman, S.M., Irwin, J.A., Atsalis, S., Ravosa, M.J. & Ganzhorn, J.U. (2000) Remarkable species diversity in Malagasy mouse lemurs (Primates, *Microcebus*). *Proc. Nat. Acad. Sci. USA* 97:11325-11330.
31. Noble, V.E., Kowalski, E.M. & Ravosa, M.J. (2000) Orbital orientation and the function of the mammalian postorbital bar. *J. Zool., London* 250:405-418.
30. Ravosa, M.J., Johnson, K.R. & Hylander, W.L. (2000) Strain in the galago facial skull. *J. Morphol.* 245:51-66.

Journal Articles and Book Chapters (cont.)

29. Ravosa, M.J., Noble, V.E., Hylander, W.L., Johnson, K.R. & Kowalski, E.M. (2000) Masticatory stress, orbital orientation and the evolution of the primate postorbital bar. *J. Human Evol.* 38:667-693.
28. Ravosa, M.J., Vinyard, C.J. & Hylander, W.L. (2000) Stressed out: Masticatory forces and primate circumorbital form. *Anat. Record (New Anat.)* 261:173-175. (Featured Article)
27. Lieberman, D.E., Ross, C.F. & Ravosa, M.J. (2000) The primate cranial base: Ontogeny, function and integration. *Yrbk. Phys. Anthropol.* 43:117-169. (Invited Review with Original Data)
26. Ravosa, M.J. (1999) Anthropoid origins and the modern symphysis. *Folia Primatol.* 70:65-78.
25. Ravosa, M.J. (1998) Cranial allometry and geographic variation in slow lorises (*Nycticebus*). *Am. J. Primatol.* 45:225-243.
24. Hylander, W.L., Ravosa, M.J., Ross, C.F. & Johnson, K.R. (1998) Mandibular corpus strain in primates: Further evidence for a functional link between symphyseal fusion and jaw-adductor muscle force. *Am. J. Phys. Anthropol.* 107:257-271.
23. Vinyard, C.J. & Ravosa, M.J. (1998) Ontogeny, function, and scaling of the mandibular symphysis in papionin primates. *J. Morphol.* 235:157-175.
22. Fishman, D.A., Kearns, A., Chilikuri, K., Bafetti, L.M., O'Toole, E.A., Georgacopoulos, J., Ravosa, M.J. & Stack, M.S. (1998) Metastatic dissemination of human ovarian epithelial carcinoma is promoted by $\alpha 2\beta 1$ -integrin-mediated interaction with type I collagen. *Invasion and Metastasis* 18:15-26.
21. Ravosa, M.J. (1996a) Mandibular form and function in North American and European Adapidae and Omomyidae. *J. Morphol.* 229:171-190.
20. Ravosa, M.J. (1996b) Jaw morphology and function in living and fossil Old World monkeys. *Int. J. Primatol.* 17:909-932.
19. Ravosa, M.J. (1996c) Jaw scaling and biomechanics in fossil taxa. *J. Human Evol.* 30:159-160.
18. Ravosa, M.J., Meyers, D.M. & Glander, K.E. (1995) Heterochrony and the evolution of ecogeographic size variation in Malagasy sifakas. K.J. McNamara (Ed.): *Evolutionary Change and Heterochrony*. London: J. Wiley & Sons, pp. 261-276.
17. Ravosa, M.J. & Ross, C.F. (1994) Craniodental allometry and heterochrony in two howler monkeys: *Alouatta seniculus* and *A. palliata*. *Am. J. Primatol.* 33:277-299.
16. Ravosa, M.J. & Shea, B.T. (1994) Pattern in craniofacial biology: Evidence from the Old World monkeys (Cercopithecidae). *Int. J. Primatol.* 15:801-822.
15. Ravosa, M.J. & Simons, E.L. (1994) Mandibular growth and function in *Archaeolemur*. *Am. J. Phys. Anthropol.* 95:63-76.
14. Ravosa, M.J. & Hylander, W.L. (1994) Function and fusion of the mandibular symphysis in primates: Stiffness or strength? J.G. Fleagle & R.F. Kay (Eds.): *Anthropoid Origins*. New York: Plenum Press, pp. 447-468. (Invited Symposium on Anthropoid Origins)

Journal Articles and Book Chapters (cont.)

13. Ravosa, M.J., Meyers, D.M. & Glander, K.E. (1993) Relative growth of the limbs and trunk in sifakas: Heterochronic, ecological, and functional considerations. *Am. J. Phys. Anthropol.* 92:499-520.
12. Ross, C.F. & Ravosa, M.J. (1993) Basicranial flexion, relative brain size, and facial kyphosis in nonhuman primates. *Am. J. Phys. Anthropol.* 91:305-324.
11. Ravosa, M.J. & Hylander, W.L. (1993) Functional significance of an ossified mandibular symphysis: A reply. *Am. J. Phys. Anthropol.* 90:509-512.
10. Hylander, W.L. & Ravosa, M.J. (1992) An analysis of the supraorbital region of primates: A morphometric and experimental approach. P. Smith & E. Tchernov (Eds.): *Structure, Function and Evolution of Teeth*. Tel Aviv: Freund Publishing, pp. 223-255.
9. Daegling, D.J., Ravosa, M.J., Johnson, K.R. & Hylander, W.L. (1992) Influence of teeth, alveoli, and periodontal ligaments on torsional rigidity in human mandibles. *Am. J. Phys. Anthropol.* 89:59-72.
8. Ravosa, M.J. (1992) Allometry and heterochrony in extant and extinct Malagasy primates. *J. Human Evol.* 23:197-217. (Invited Symposium on Primate Ontogeny and Evolution)
7. Ravosa, M.J. (1991a) The ontogeny of cranial sexual dimorphism in two Old World monkeys: *Macaca fascicularis* (Cercopithecinae) and *Nasalis larvatus* (Colobinae). *Int. J. Primatol.* 12:403-426.
6. Ravosa, M.J. (1991b) Structural allometry of the prosimian mandibular corpus and symphysis. *J. Human Evol.* 20:3-20.
5. Ravosa, M.J. (1991c) Ontogenetic perspective on mechanical and nonmechanical models of primate circumorbital morphology. *Am. J. Phys. Anthropol.* 85:95-112.
4. Ravosa, M.J. (1991d) Interspecific perspective on mechanical and nonmechanical models of primate circumorbital morphology. *Am. J. Phys. Anthropol.* 86:369-396.
3. Shea, B.T., Hammer, R.E., Brinster, R.L. & Ravosa, M.J. (1990) Relative growth of the skull and postcranium in giant transgenic mice. *Genet. Research, Cambridge* 56:21-34.
2. Ravosa, M.J. (1990) A functional assessment of subfamily variation in maxillomandibular morphology among Old World monkeys. *Am. J. Phys. Anthropol.* 82:199-212.
1. Ravosa, M.J. (1988) Browridge development in Cercopithecidae: A test of two models. *Am. J. Phys. Anthropol.* 76:535-555.

Outreach

Notre Dame Football Saturday Science Explorer Series, Interactive Presentations (twice)

Notre Dame Alumni Weekend College of Science, Interactive Presentation

Navari Student Outreach Clinic, Research Coordinator for Notre Dame Undergraduates

Invited Participant, STEM Career Day at Edwardsburg Middle School (Edwardsburg, MI)

Invited Participant, Andrews Academy (Berrien Springs, MI) scientific presentation

Invited Participant, Lutheran Peace School (Granger, IN) scientific presentation

Orthoworx (Warsaw, IN), university and industry conference member

Faculty Adviser, John Adams High School students (South Bend, IN), Indiana Science Olympiad

Editorial Activities

Folia Primatologica (editorial board – past 22 years)

Journal of Human Evolution (associate editor – 5 years)

Science, American Midlands Naturalist, International Journal of Primatology, American Journal of Physical Anthropology (book reviewer)

Professional Interviews

American Association of Anatomists, Summer Newsletter – Unpacking Fossils' Plastic Past (2013)

WBND-TV, ABC 57 News, South Bend, PI Work – Evolution and Function of Mammal Jaws (2012)

KBIA, National Public Radio, University of Missouri – Discussion of 'Ida' Fossil Discovery (2009)

Professional Activities – Grant Panel Member

National Science Foundation – Biological Anthropology Program (2018-2020)

Professional Activities – Grant Reviewer

Domestic – National Science Foundation (BCS, IOS & CMMI directorates), Leakey Foundation, American Philosophical Society, MacArthur Foundation, Wenner-Gren Foundation

International – Austrian Science Fund, Dutch Research Council (NWO), Wellcome Trust (UK), Biotechnology and Biological Sciences Research Council (UK), Oxford University

Doctoral Committees

- PhD chair, Michelle K. Bennett, University of Notre Dame College of Science
- PhD chair, Rachel A. Crites, University of Notre Dame College of Science
- PhD committee, Alyssa Oberman, University of Notre Dame College of Engineering
- PhD committee, Connor Evans, University of Notre Dame College of Engineering
- PhD committee, Deniz Enverova, University of Notre Dame College of Arts and Letters (2021 degree)
- PhD committee, Marwa Asem, University of Notre Dame College of Science (2019 degree)
- PhD committee, M. Kathleen Pitirri, University of Toronto (2019 degree)
- PhD chair, Erin M. Franks, 2017 & 2014 Kaneb Center Outstanding Graduate Student Teaching Award, 2014 GSU Outstanding TA (2nd Place), 2017 GSU Travel Award, 2015 Notebaert Travel Award, University of Notre Dame College of Science (2017 degree)
- PhD committee, Elizabeth A. Loughran, University of Notre Dame College of Science (2017 degree)
- PhD committee, Andrew P. Baumann, University of Notre Dame College of Engineering (2016 degree)
- PhD committee, Joshua A. Gargac, University of Notre Dame College of Engineering (2016 degree)
- PhD chair, Kimberly A. Congdon, MU Life Sciences Fellow, 2014 AAPA W. Pollitzer Student Travel Prize, 2014 Rising Star Workshop in South Africa, 2014 MU Life Sciences Week 1st Prize – Physiology and Behavior Category, University of Missouri School of Medicine (2015 degree)
- PhD committee, Emily B. Klopp, Northwestern University Feinberg School of Medicine (2014 degree)
- PhD committee, Travis L. Turnbull, University of Notre Dame College of Engineering (2013 degree)
- PhD chair, Rachel A. Menegaz, MU Life Sciences Fellow, NSF Graduate Research Fellow, 2008 AAPA M. Trotter Student Presentation Prize, 2009 AAPA W. Pollitzer Student Travel Prize, ASBMR 2012 Young Investigator Award, AAA 2013 Student Prize for Anatomical Research, University of Missouri School of Medicine (2013 degree)
- PhD committee, Denitsa G. Savakova, Northwestern Univ. Feinberg School of Medicine (2012 degree)
- PhD committee, Lynn Copes, Arizona State University (2012 degree)
- PhD chair, Elisabeth K. Nicholson-López, 2008 AAPA William S. Pollitzer Student Travel Prize, Northwestern University Feinberg School of Medicine (2011 degree)
- PhD committee, Erin R. Leslie, Northwestern University Feinberg School of Medicine (2010 degree)
- PhD committee, Nathan E. Holton, University of Iowa (2009 degree)
- PhD committee, Ross A. Kopher, University of Illinois at Chicago Engineering School (2006 degree)
- PhD committee, Joseph T. Barss, Northwestern University School of Medicine (2006 degree)
- PhD committee, Kristin A. Wright, Northwestern University School of Medicine (2005 degree)
- PhD committee, Barth W. Wright, University of Illinois at Urbana-Champaign (2004 degree)

Doctoral Committees (cont.)

PhD chair, Aaron S. Hogue, Northwestern University Feinberg School of Medicine (2004 degree)

PhD committee, Robert C. McCarthy, George Washington University (2004 degree)

PhD committee, Lorna P. Profant, Northwestern University School of Medicine (2002 degree)

PhD committee, Melissa Morales-Cogan, University of Chicago (2001 degree)

PhD chair, Christopher J. Vinyard, Northwestern University School of Medicine (1999 degree)

PhD committee, Nayuta Yamashita, Northwestern University (1996 degree)

PhD committee, Mark W. Hamrick, Northwestern University School of Medicine (1995 degree)

Masters Committees

MS chair, Rebecca J. Anderson, University of Notre Dame College of Science (2021 degree)

MS chair, Emily M. Nett, 2018 AAPA William S. Pollitzer Student Travel Prize, University of Notre Dame College of Science (2020 degree)

MA committee, Julia R. Prince-Buitenhuis, University of Notre Dame College of Arts and Letters (2018 degree)

MA committee, Jill E. Scott, University of Iowa (2018 degree)

MS chair, Khari D. Thompson, Deans Diversity Fellow, University of Notre Dame College of Science (2017 degree)

MS committee, Katherine A. Bussey, University of Notre Dame ESTEEM Program (2016 degree)

MS committee, Abbey J. Santanello, University of Notre Dame ESTEEM Program (2016 degree)

MS committee, Evan L. Doney, University of Notre Dame ESTEEM Program (2016 degree)

MS chair, Amy L. Remer, University of Notre Dame College of Science (2015 degree)

MS committee, Charles J. Berno, University of Notre Dame ESTEEM Program (2015 degree)

MS committee, Benjamin R. Hoggan, University of Notre Dame ESTEEM Program (2015 degree)

MS committee, Alexander P. Chopp, University of Notre Dame ESTEEM Program (2014 degree)

MS committee, Tao Qu, University of Missouri School of Engineering (2012 degree)

MS committee, James P. Bosanquet, University of Missouri School of Medicine (2010 degree)

MA committee, Mary J. Marquardt, University of Missouri (2008 degree)

MS committee, Anne M. Gomez, Duke University (1992 degree)

Professional Student Mentoring

DDS summer research, Samar Islam, Northwestern University (1997 3rd Place Dental Research Day)

Graduate summer research, Elizabeth Holmes, Northwestern University, MD/PhD (1995)

Undergraduate Student Mentoring

Research, Brookelyn Hanley, University of Notre Dame (2021)

Research, Aidan Meuninck, University of Notre Dame (2021)

Research, Lauren Weger, University of Notre Dame (2020-2021)

Research, Jonathan Couri, University of Notre Dame (2020-2021)

Research & COS-SURF Program, Hannah Kowalkowski, University of Notre Dame (2020-2021)

Research, Maryna Chuma, University of Notre Dame (2020-2021)

Research, Margaret Latham, University of Notre Dame (2020-2021)

Research & Honors Thesis, Margaret Kilbane, University of Notre Dame (2020-2021)

Research, Olivia Cole, University of Notre Dame (2020-2021)

Research, Elizabeth Baier, University of Notre Dame (2020-2021)

Research, Daniel Liggio, University of Notre Dame (2020-2021)

Research, Eun Suh Sung, University of Notre Dame (2020-2021)

Research & Building Bridges Program, Evangelina Louis, University of Notre Dame (2020-2021)

Research, Caroline Kaczmarek, University of Notre Dame (2020)

Research, Charles Lemkuil, University of Notre Dame (2019-2021)

Research, Wendy Ruan, University of Notre Dame (2019-2021)

Research, Olivia Heming, University of Notre Dame (2019-2021)

Research, William Aberger, 2021 Outstanding Biological Scientist Award in the Department of Biological Sciences, University of Notre Dame (2019-2021)

Research, Joan Griffin, University of Notre Dame (2019-2020)

Research, Elizabeth Pryor, University of Notre Dame (2019-2020)

Research, Natalie Ingram, University of Notre Dame (2019-2020)

Research & Building Bridges Program, Sonali Patel, University of Notre Dame (2019-2020)

Undergraduate Student Mentoring (cont.)

- Research, Olivia Venvertloh, University of Notre Dame (2019)
- Research, Olivia Zyniewicz, University of Notre Dame (2019)
- Research, Summer ND/NSF REU Program, Andrew Danison, College of Wooster (2019)
- Research, Melissa Fenner, University of Notre Dame (2018-2020)
- Research, Geneva Baumberger, University of Notre Dame (2018-2020)
- Research & COS-SURF Program, Carmen Alvarez, 2020 Mr. and Mrs. Frank McDonald Undergraduate Research Award in Biological Sciences, University of Notre Dame (2018-2020)
- Research, Jenna McKinnon, University of Notre Dame (2018-2020)
- Research, Hannah Morris, University of Notre Dame (2018-2020)
- Research, Freddie Lockie, University of Notre Dame (2018-2020)
- Research, Summer ND REU Program, Nicole Márquez, University of Puerto Rico – Cayey (2018)
- Research, Brielle Jaglowski, University of Notre Dame (2017-2019)
- Research, Dinuka Cooray, University of Notre Dame (2017-2019)
- Research, Griffin Gilmore, University of Notre Dame (2017-2019)
- Research, Alison Lemkuil, University of Notre Dame (2017-2018)
- Research, John Velasquez, University of Notre Dame (2017)
- Research, S. Matthew White, University of Notre Dame (2016-2019)
- Research, Connor Shea, University of Notre Dame (2016-2019)
- Research, Natalie Howe, University of Notre Dame (2016-2019)
- Research, Summer Program & Directed Readings, Elise Brady, University of Notre Dame (2016-17)
- Research, Robert Wellendorf, University of Notre Dame (2016-2017)
- Directed Readings Course, Michael Chronert, University of Notre Dame (2016)
- Research & Building Bridges Program, Belin Mirabile, University of Notre Dame (2015-2019)
- Research, Elizabeth McGough, 2018 Outstanding Biological Scientist Award in the Department of Biological Sciences, University of Notre Dame (2015-2018)
- Research, Gabriela Portmann, University of Notre Dame (2015-2018)
- Research, Kevin Ramos, University of Notre Dame (2015-2018)
- Research, Adam Pasquinely, University of Notre Dame (2015-2017)

Undergraduate Student Mentoring (cont.)

- Research, Jason Rink, University of Notre Dame (2015-2016)
- Directed Readings Course, Molly Seidel, University of Notre Dame (2015)
- Directed Readings Course, Elena Brindley, University of Notre Dame (2015)
- Research, Kaitlyn Hegewald, University of Notre Dame (2014-2017)
- Research, COS-SURF Program & Honors Thesis, Justin Brill, University of Notre Dame (2014-17),
COS and CUSE Travel Awards for first-author presentation at the 2017 AAPA meetings,
2017 Robert Braco, MD, Honors Research Award in the Department of Biological Sciences
- Research & Building Bridges Program, Vincent Sellner, University of Notre Dame (2014-2015)
- Research & Summer Program, Faisal Sharif, University of Notre Dame (2014)
- Research, Kazune Pax, University of Notre Dame (2013-2017)
- Research & Senior Honors Thesis, Anna Szentirmai, University of Notre Dame (2013-2016),
2016 Outstanding Biological Scientist Award in the Department of Biological Sciences
- Research, Vincent Riccelli, University of Notre Dame (2013-2016), Biology Major Valedictorian,
2016 Outstanding Biological Scientist Award in the Department of Biological Sciences
- Research, COS-SURF Program & Honors Thesis, Annika Fling, University of Notre Dame (2013-16)
- Building Bridges Program, Luis Lazalde, University of Notre Dame (2013-2014)
- Research, Zachary Wiley, University of Notre Dame (2012-2016)
- Research & Summer DaVinci Program, Matthew Mazur, University of Notre Dame (2012-2015)
- Research & Summer COS-SURF Program, Elaine Lee, University of Notre Dame (2012-2015)
- Research, Anna Veit, University of Notre Dame (2012-2015)
- Research, Abbey Santanello, University of Notre Dame (2012-2014)
- Research, Joseph Scollan, University of Notre Dame (2012-2014)
- Research & Summer DaVinci Program, Joel Hlavaty, University of Notre Dame (2012-2014)
- Research, Mark Stechschulte, University of Notre Dame (2012-2014)
- Research & Summer COS-SURF Program, Andrew Mancini, University of Notre Dame (2012-2014),
2014 Outstanding Biological Scientist Award in the Department of Biological Sciences
- Research, Meghan Eastman, University of Notre Dame (2012-2013)
- Research, David Murray, University of Notre Dame (2012-2013)
- Research & Senior Honors Thesis, Christina Anderson, University of Missouri (2009-2011)

Undergraduate Student Mentoring (cont.)

Research & Summer LS UROP Program, Ashley Daniel, University of Missouri (2008-2010),
(2008 MU Health Sciences Research Day: 3rd Place Award in the Basic Science Category,
2010 Laura Nahm Outstanding Undergraduate Award – Division of Biological Sciences)

Research, EXPRESS Program, Maxwell Kwarteng, University of Missouri (2009-2010)

Research, EXPRESS Program, Destiny Costley, University of Missouri (2008-2010)

Research, EXPRESS Program, Whitney Phillips, University of Missouri (2008)

Research & Summer LS UROP Program, Eldin Jašarević, University of Missouri (2008)

Research, Summer NU SROP Program, Lidiany González, University of Puerto Rico – Mayagüez (2005)

Research & Summer volunteer, Jessie Pinchoff, Northwestern University (2005)

Research & Summer volunteer, Erica Kowalski, Northwestern University (1998)

High School Student Mentoring

Research, Talia Thornton, Marian High School (2019-2021): 1st place 2020 Notre Dame Indiana Regional Science Fair and selected for presentation at the 2020 Indiana State Science Fair; 2021 Notre Dame Indiana Regional Science Fair won a categorical 1st place ribbon, Notre Dame Department of Biological Sciences Life Science Award, overall 1st place ribbon, invited presentation at the 2021 Indiana State Science Fair, and qualified for 2021 International Science and Engineering Fair.

Laboratory Staff

Postdoctoral Fellow, Alyssa L. Oberman, University of Notre Dame (starting 2022)

Postdoctoral Fellow, Susan E. Lad, University of Notre Dame (2018-2021)

Research Specialist, Hui Ding, University of Notre Dame (2017 to present)

Postdoctoral Fellow, Susan F. Coiner-Collier, University of Notre Dame (2016-2018)

Postdoctoral Fellow, Henry C. Fu, University of Notre Dame, HCRI Walther Fellow (2015-2016)

Postdoctoral Fellow, Holly E. Weiss-Bilka, University of Notre Dame, Recipient of Indiana CTSI Postdoctoral Fellowship, HCRI Walther ABC Postdoctoral Fellowship (2013-2017)

Postdoctoral Fellow, Robert J. Kane, University of Notre Dame (2012)

Research Specialist, Kevin R. McAbee, University of Notre Dame (2011-2017)

Postdoctoral Fellow, Jeremiah E. Scott, University of Notre Dame and MU SOM (2011-2013)

Research Specialist, Jie Ning, University of Missouri School of Medicine (2007-2011)

Postdoctoral Fellow, Ravinder Kunwar, Northwestern University School of Medicine (2004-2006)

Research Associate, Vivian E. Noble, Northwestern University School of Medicine (1997-1999)

Academic Activities at the University of Notre Dame (2011-present)

Conceived, Developed, Organized and Implemented Research Conference (COSE-JAM) for Graduate Students and Postdoctoral Fellows, Colleges of Science and Engineering

Faculty Advisory Committee to Chair, Department of Biological Sciences (elected)

Member, Harper Cancer Research Institute, College of Science

Member, Biophysics Program, College of Science

Member, Bioengineering Program, College of Engineering

Faculty Advisor, Pre-Professional Studies, College of Science

Member, Institutional Animal Care and Use Committee, Office of Research

Member, Laboratory Safety Advisory Committee, Office of Research

Reviewer, COS-SURF Grant Evaluation Committee, College of Science

Member, Stem Cell Faculty Search Committee, College of Science and Biological Sciences

Compiled and Composed Minutes, Full Professor Committee on Promotions, Biological Sciences

Faculty Participant, NSF REU Undergraduate Summer Training Program, Biological Sciences

Ad Hoc Member, Graduate Student Relations Committee, Biological Sciences

Member and Head, Graduate Curriculum Committee, Biological Sciences

Member, Graduate Recruitment Committee, Biological Sciences

Member, Seminar Committee, Biological Sciences

Member, Library Committee, Biological Sciences

Member, Safety Committee, Biological Sciences

Participant, Biological Sciences Undergraduate Networking Dinner

Member, Graduate Examination Committee, Biological Sciences

Member, Graduate Examination Committee, Aerospace and Mechanical Engineering

Member, Oral Examination Committee, ESTEEM Masters Program

Faculty Associate, Center for Undergraduate Scholarly Engagement

Faculty Participant, First Year Studies Dorm Outreach Program

Faculty Panel Discussant, Summer Scholars Program

Faculty Fellow, Kaneb Teaching Center

Participant, First Year Studies Preprofessional and Minority Student Research Forum

Mentor, Building Bridges Program for First Year Science and Engineering Students

Academic Activities at the University of Missouri School of Medicine (2006-2011)

Director of Graduate Studies, Pathology and Anatomical Sciences

Member, Executive Committee, Pathobiology Area Program, University of Missouri College of Veterinary Medicine

Head, Promotion and Tenure Committee, Pathology and Anatomical Sciences

Member, Life Sciences Doctoral Fellowship Committee, Bond Life Sciences Center

Head, Assistant Professor Search Committee, Pathology and Anatomical Sciences

Head, Lecturer Search Committee, Pathology and Anatomical Sciences

Head, Anatomy Journal Club and Seminar Series, Pathology and Anatomical Sciences

Caleb Science Club, Saturday Morning Coordinator for Human Gross Anatomy

Human Gross Anatomy Course Lecturer and Laboratory Instructor

Member, Promotion and Tenure Committee, Pathology and Anatomical Sciences

Academic Activities at Northwestern University Feinberg School of Medicine (1993-2006)

Structure-Function Musculoskeletal Unit Director and Curriculum Committee

Member, Promotion and Tenure Committee, Cell and Molecular Biology

Evolutionary Biology Member, Steering Committee, Lectures in the Life Sciences

Evolutionary Biology Qualifying Exam Committee, Integrated Graduate Program

Evolutionary Biology Member, Program Committee, Integrated Graduate Program

Evolutionary Biology Member, Admissions Committee, Integrated Graduate Program

Evolutionary Biology Group, Laboratory Rotation Mentor, Integrated Graduate Program

Cell and Molecular Biology Representative, Medical Faculty Senate

Cell and Molecular Biology Member, Advisory Committee to Replace Integrated Graduate Program Director

Human Gross Anatomy Course Lecturer and Laboratory Instructor

Chair, Evolutionary Morphology Journal Club

Member, Faculty Advisory Committee, Evolutionary Processes Minor, Northwestern University

Journal Article Reviewer

Journal of the Mechanical Behavior of Biomedical Materials
Journal of Musculoskeletal and Neuronal Interactions
Proceedings of the National Academy of Sciences
Proceedings of the Royal Society of London
American Journal of Physical Anthropology
Biological Journal of the Linnean Society
BioMed Central – Evolutionary Biology
Journal of Bone and Mineral Research
Journal of the Royal Society Interface
International Journal of Primatology
Yearbook of Physical Anthropology
American Journal of Primatology
African Journal of Biotechnology
Journal of Experimental Zoology
Journal of Experimental Biology
Anatomy Research International
Journal of Orthopedic Research
American Midlands Naturalist
Journal of Human Evolution
Evolutionary Anthropology
Osteoarthritis and Cartilage
Journal of Dental Research
Experimental Gerontology
Archives of Oral Biology
Journal of Morphology
Journal of Biosciences
Evolutionary Biology
Hospital and Practice
Naturwissenschaften
American Naturalist
Journal of Anatomy
Folia Primatologica
Anatomical Record
Biological Reviews
Tissue Engineering
Zoological Science
Current Zoology
PLoS ONE
Primates
PeerJ