

CURRICULUM VITAE

Personal

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Education

<i>University of California, Berkeley</i>	Ph.D. in Anthropology
May 1997	
<i>University of California, Berkeley</i>	M.A. in Anthropology
May 1993	
<i>University of California, Berkeley</i>	B.A. in Anthropology
May 1986	Magna Cum Laude

Academic Positions

August 2009 to present	Associate Professor of Anthropology, Department of Anthropology Indiana University
August 2009 to present	Research Scientist, The Stone Age Institute Bloomington, Indiana
December 2009 to present	Faculty member, Cognitive Science Program Indiana University
June 2011 to present	Faculty member, Center for the Integrative Study of Animal Behavior Indiana University
July 2005 to present	Consulting Scholar, Physical Anthropology Section University of Pennsylvania Museum of Archaeology and Anthropology
June 2005 to present	Director, Open Research Scan Archive (ORSA) University of Pennsylvania Museum of Archaeology and Anthropology
May to June, 2014, 2015 and 2016	Visiting Scholar, Center for the Study of Language and Cognition Zhejiang University (浙江大学), Hangzhou, China
September 2014 to January 2015	Fulbright Scholar, Centre for Translation, Interpreting and Cognition University of Macao, China
August 2007 to August 2009	Assistant Professor of Anthropology, Department of Sociology and Anthropology James Madison University

July 2005 to August 2007	<i>Assistant Professor of Anthropology</i> , Department of Behavioral Sciences University of Michigan-Dearborn
July 1998 to June 2005	<i>Assistant Professor</i> , Department of Anthropology University of Pennsylvania
May 1997 to July 1998	<i>Post-Doctoral Fellow</i> , NIH National Research Service Award Center for Functional Imaging, Lawrence Berkeley National Laboratory
Fall 1996	<i>Instructor</i> , Department of Oral Biology University of California, San Francisco
Spring 1995	<i>Instructor</i> , Department of Anthropology University of California, Berkeley
Summer to Fall 1991	<i>Clinical Instructor</i> . Department of Anatomy University of the Pacific School of Dentistry
Fall 1987 to Spring 1993 (13 classes)	<i>Graduate Student Instructor</i> , Department of Anthropology University of California, Berkeley

Publications

1. **Schoenemann, P. Thomas.** (in press). Sarich, Vincent. In W. Trevathan (Ed.), *The International Encyclopedia of Biological Anthropology*. John Wiley and Sons, Inc. (referreed)
2. Kerney, M., Smaers, J. B., **Schoenemann, P. T.**, & Dunn, J. C. (2017). The coevolution of play and the cortico-cerebellar system in primates. *Primates*. (refereed)
3. **Schoenemann, P. Thomas**, 2017, "A complex adaptive systems approach to language and brain," in *Complexity in Language: Developmental and Evolutionary Perspectives*, edited by Salikoko S. Mufwene, Jean-Marie Hombert, François Pellegrino, Christophe Coupé, and Egidio Marsico, Cambridge University Press, pp. 67-100
4. **Schoenemann, P. Thomas**, Gang Peng, Robert Port, 2017, Report of the 8th International Conference in Evolutionary Linguistics. *Journal of Chinese Linguistics*, pp. 238-247
5. Dale, R., Kello, C. T., & **Schoenemann, P. T.**, 2016. Seeking synthesis: The integrative problem in understanding language and its evolution. *Topics in Cognitive Science*, 8(2), 371–381 (refereed)
6. **Schoenemann, P. Thomas**, 2013, "Searching for language origins," In P. Gang & S. Feng (Eds.), *Eastward flows the great river: Festschrift in honor of professor William S.-Y. Wang on his 80th birthday*. Hong Kong: City University of Hong Kong Press, pp. 229-254
7. **Schoenemann, P. Thomas**, 2013, "Hominid brain evolution." In D. R. Begun (Ed.), *A companion to paleoanthropology*, Chichester, UK: Wiley-Blackwell, pp. 136-164
8. **Schoenemann, P. Thomas**, 2012, "Evolution of brain and language" in *Evolution of the Primate Brain: From Neuron to Behavior*, edited by Michel A. Hofman and Dean Falk, series title: *Progress in Brain Research*, series editors: Stephen Waxman, Donald G. Stein, Dick Swaab and Howard Fields. Amsterdam: Elsevier, pp. 443-459 (refereed)
9. Monge, Janet and **P. Thomas Schoenemann**, 2011, "The Open Research Scan Archive (Orsa): A massive open-access archive of research quality computed tomography (CT) scans," in *Pleistocene Databases:*

Acquisition, Storing, Sharing edited by Roberto Macchiarelli & Gerd-Christian Weniger, Mettmann, Germany: Wissenschaftliche Schriften des Neanderthal Museums V. 4, p. 61-67

10. Beckner, Clay, Richard Blythe, Joan Bybee, Morten H. Christiansen, William Croft, Nick C. Ellis, John Holland, Jinyun Ke, Diane Larsen-Freeman, **Tom Schoenemann**, 2011, "La lengua es un sistema adaptativo complejo," http://www.linred.es/articulos_pdf/LR_articulo_04092011.pdf. Spanish translation of "Language Is a Complex Adaptive System: Position Paper" published in 2009 in *Language Learning* (see below)
11. **Schoenemann, P. Thomas**, 2010, "The meaning of brain size: the evolution of conceptual complexity" in *Human Brain Evolving: Papers in Honor of Ralph Holloway* edited by Douglas Broadfield, Michael Yuan, Kathy Schick, and Nicholas Toth. Bloomington, Indiana: Stone Age Institute Press, pp. 37-50
12. **Schoenemann, P. Thomas**, 2009, "Evolution of brain and language," *Language Learning*, v. 59(Suppl. 1): 162–186 (refereed)
13. **Schoenemann, P. Thomas**, 2009, "Brain evolution relevant to language" in *Language, Evolution, and the Brain* edited by Minett, James W. & Wang, William S-Y., Hong Kong: City University of Hong Kong Press, pp. 191-223
14. Beckner, Clay, Richard Blythe, Joan Bybee, Morten H. Christiansen, William Croft, Nick C. Ellis, John Holland, Jinyun Ke, Diane Larsen-Freeman, **Tom Schoenemann**, 2009, "Language is a complex adaptive system: Position paper," *Language Learning*, v. 59(Suppl. 1):1-26. (Spanish translation available: <http://www.linred.es>) (refereed)
15. **Schoenemann, P. Thomas**, Janet Monge, L. Daniel Glotzer, Michael Campana, 2008, "The open research CT scan archive," *British Institute of Radiology Newsletter*, Spring Issue:13-15
16. **Schoenemann, P. Thomas**, James Gee, Brian Avants, Ralph L. Holloway, Janet Monge, and Jason Lewis, 2007, "Validation of plaster eEndocast morphology through 3D CT image analysis" *American Journal of Physical Anthropology* v. 132:183-192 (refereed)
17. **Schoenemann, P. Thomas**, 2006, "Evolution of the size and functional areas of the human brain" *Annual Review of Anthropology* v. 35:379-406 (refereed)
18. Avants, Brian B., **P. T. Schoenemann**, and J. C. Gee, 2006, "Lagrangian frame diffeomorphic image registration: Morphometric comparison of human and chimpanzee cortex" *Medical Image Analysis* v. 10(3):397-412 (refereed)
19. **Schoenemann, Tom**, 2006, "Review of: From Monkey Brain to Human Brain: A Fyssen Foundation Symposium" *American Journal of Human Biology* V. 18(5):722-724.
20. **Schoenemann, P. Thomas**, L. D. Glotzer, And Michael Sheehan, 2005. "Reply To "Is prefrontal white matter enlargement a human evolutionary specialization?"" *Nature Neuroscience* 8(5):538 (Referred Letter)
21. **Schoenemann, P. Thomas**, Michael Sheehan, and L. Daniel Glotzer, 2005, "Prefrontal white matter volume is disproportionately larger in humans than in other primates" *Nature Neuroscience* v. 8(2):242-252 (refereed)
22. **Schoenemann, P. Thomas**, 2005, "Conceptual complexity and the brain: Understanding language origins" in *Language Acquisition, Change and Emergence: Essays in Evolutionary Linguistics* edited by William S.-Y. Wang and James W. Minett. Hong Kong: City University of Hong Kong Press, pp. 47-94

23. **Schoenemann, P. Thomas**, 2004, "Brain size and body composition in mammals," *Brain Behavior and Evolution* v. 63(1):47-60 (refereed)
24. **Schoenemann, P. Thomas**, 2003, "Commentary on 'Genes and cultures: What creates our behavioral phenome' By Ehrlich And Feldman" *Current Anthropology*, V. 44(1):101
25. **Schoenemann, P. Thomas**, 2002, "Putting meat on the bones: The necessity of empirical tests of hypotheses about cognitive evolution," *Behavioral And Brain Sciences*, V. 25:416-417
26. **Schoenemann, P. Thomas**, 2001, "Brain scaling, behavioral ability, and human evolution," *Behavioral And Brain Sciences*, V.24(2):293-295
27. **Schoenemann, P. Thomas**, 2001, "Review of *Molecular Biology of the Brain*, edited by S. J. Higgins," *Human Biology*. V.73(4):614-617
28. **Schoenemann, P. Thomas**, Thomas F. Budinger, Vincent M. Sarich, William S.-Y. Wang, 2000, "Brain size does not predict general cognitive ability within families," *Proceedings of the National Academy of Sciences*. v. 97(9):4932-4937 (refereed)
29. **Schoenemann, P. Thomas**, 1999, "Syntax as an emergent characteristic of the evolution of semantic complexity," *Minds and Machines*, v. 9:309-346. (refereed)
30. Klein, Gregory J, Xia Teng, **P. Thomas Schoenemann** And Thomas F. Budinger, 1998, "A sensitivity analysis of brain morphometry based on MRI-derived surface models", In *Medical Imaging 98: Physiology And Function From Multidimensional Images, Proceedings Of The Society Of Photo-Optical Instrumentation Engineers*, E Hoffman, Editor, V.3337:294-303.
31. **Schoenemann, P. Thomas**, And William S.-Y. Wang, 1996, "Evolutionary principles and the emergence of syntax," *Behavioral And Brain Sciences*., V.19(4):646-647
32. **Schoenemann, P. Thomas**, and John S. Allen, 1991, "Comment on "New models and metaphors for the Neanderthal debate," by Paul Graves", *Current Anthropology*, v.32(5):530-532. (invited commentary)

Refereed Abstracts

33. **Schoenemann, P. Thomas**, Ralph L. Holloway, 2017, "Modern human variation in brain size: Implications for the Dmanisi hominins and other fossil taxa." *American Journal Of Physical Anthropology*, V. 162, Supplement S64:349
34. Holloway, Ralph L., Shawn Hurst, Heather M. Garvin, **Tom Schoenemann**, Will B. Vanti, John Hawks, and Lee Berger, 2017, "*Homo naledi* posterior endocasts and their significance for understanding brain reorganization." *American Journal Of Physical Anthropology*, V. 162, Supplement S64:220
35. Hurst, Shawn D., Ralph L. Holloway, Heather M. Garvin, **Tom Schoenemann**, William B. Vanti, John Hawks and Lee R. Berger, 2017, "*Homo naledi*'s frontal lobe: Modern in form, ancestral in size." *American Journal Of Physical Anthropology*, V. 162, Supplement S64:225
36. **Schoenemann, P. Thomas** and Ralph L. Holloway, 2016, "Brain function and Broca's Cap: A meta-analysis of fMRI studies." *American Journal Of Physical Anthropology*, V. 159, Supplement S62:283
37. Holloway, Ralph L., **P. T. Schoenemann**, Douglas C. Broadfield, 2016, "Why paleoneurology needs the lunate sulcus." *American Journal Of Physical Anthropology*, V. 159, Supplement S62: 175-176

38. **Schoenemann, P. Thomas**, 2015, “Estimated total time spent in social play prior to adulthood is strongly associated with brain size in primates.” *American Journal Of Physical Anthropology*, V. 156, Supplement S60: 280
39. Holloway, Ralph L., Shawn D. Hurst, D. C. Broadfield, **Tom Schoenemann**, 2015, “The new and old in hominid brain evolution: Why paleoneurology needs the lunate sulcus.” *American Journal Of Physical Anthropology*, V. 156, Supplement S60: 167-168
40. Shawn D. Hurst, Ralph L. Holloway, **Tom Schoenemann**, Doug C. Broadfield, Kevin D. Hunt, 2015, “The new and the old in Hominid brain evolution, Part II: Why paleoneurology needs a chimpanzee brain atlas.” *American Journal Of Physical Anthropology*, V. 156, Supplement S60: 173-174
41. **Schoenemann, P. Thomas**, 2014, “Inferences about prefrontal cortex size in humans from motor and premotor area scaling relationships.” *American Journal Of Physical Anthropology*, V. 153, Supplement 58: 232
42. Holloway, Ralph L., **Tom T. Schoenemann**, 2014, “The occipital lobes of Neandertal brains, orbit size, and cognition: What is the evidence for Neandertal cognitive inferiority?” *American Journal Of Physical Anthropology*, V. 153, Supplement 58: 143-144
43. Shumaker, Robert W., David R. Samson, **Tom P. Schoenemann**, 2014 “The effects of sleeping platforms on next day cognition in captive orangutans (*Pongo* spp.)” *American Journal Of Physical Anthropology*, V. 153, Supplement 58: 238
44. Kitchell, Lindsey M., **P. Thomas Schoenemann**, 2014, “Functional correlates of structural asymmetries in the human brain.” *American Journal Of Physical Anthropology*, V. 153, Supplement 58: 158
45. Hurst, Delanie R., Audrey R. Brittingham, **P. Thomas Schoenemann**, 2014, “Endocranial regions associated with deception in nonhuman primates.” *American Journal of Physical Anthropology*, v. 153, Supplement 58: 147-148
46. **Schoenemann, P. Thomas**, Ralph Holloway, 2013, “Skhul V segmentation and Broca’s region asymmetries in Neandertal endocasts.” *American Journal of Physical Anthropology*, v.150, Supplement 52:244
47. Kitchell, Lindsey M., **P. Thomas Schoenemann**, Mackenzie Loyet, 2013, “Structural asymmetries in the human brain assessed via MRI.” *American Journal Of Physical Anthropology*, V.150, Supplement 56:167
48. Hurst, Delanie R., **P. Thomas Schoenemann**, Brian Avants And James C. Gee, 2013, “Assessing site specific Changes in endocranial shape associated with frugivory in primates..” *American Journal of Physical Anthropology*, v.150, Supplement 56:156
49. Brittingham, Audrey R., Delanie R. Hurst, **P. Thomas Schoenemann**, Brian Avants and James C. Gee, 2013, “Impact of tool use on brain development of non-human primates.” *American Journal of Physical Anthropology*, v.150, Supplement 56:88
50. Loyet, Mackenzie M., **P. Thomas Schoenemann**, Brian B. Avants and James C. Gee, 2012, “Associations between localized variation in brain anatomy and social behavior in healthy human subjects.” *American Journal of Physical Anthropology*, v.147, Supplement 54:196
51. Hurst, Delanie R., **P. Thomas Schoenemann**, Mackenzie M. Loyet, Brian B. Avants and James C. Gee, 2012, “How well does endocranial morphology predict behavior differences in primates?” *American Journal of Physical Anthropology*, v.147, Supplement 54:171

52. **Schoenemann, P. Thomas**, Ralph Holloway, Janet Monge, Brian Avants, and James Gee, 2011, “Differences in endocranial shape between Homo and Pongids assessed through non-rigid deformation analysis of high-resolution CT images.” *American Journal of Physical Anthropology*, v.144, Supplement 52:265-266
53. Holloway, R.L., J. Monge, **T. Schoenemann**, 2011 “The LB1 endocast: un-adorned, un-smoothed, a replication study based on the original CT scan data”, *American Journal of Physical Anthropology*, v. 144, Supplement 52: 165-166.
54. Prima, S., R. Holloway, G.Subsol, B.Combes, **T. Schoenemann**, J. Braga and J.Monge, 2011 “New 3D automatic methods for the analysis of the endocranial shape and its relationship with ectocranial structures: assessment and preliminary experiments”, *American Journal of Physical Anthropology*, v. 144, Supplement 52: 243-244.
55. **Schoenemann, P. Thomas**, 2010, “The importance of exploring non-linguistic functions of human brain language areas for explaining language evolution.” *The Evolution of Language; Proceedings of the 8th International Conference (EVOLANG8)*. Andrew D. M. Smith, Marieke Schouwstra, Bart de Boer, and Kenny Smith, eds., London: World Scientific Publishing, pp. 485-486
56. **Schoenemann, P.T.**, J. Monge, B.B. Avants, J.C. Gee, 2010 “Creating statistical atlases of modern primate endocranial morphology using non-rigid deformation analysis of high-resolution CT images.” *American Journal of Physical Anthropology*, v. 141, Supplement 50:208-209
57. Holloway, R. L., J. Monge, **T. Schoenemann**, 2010 “The Hobbit Brain: some questions about its ‘derived’ features.” *American Journal of Physical Anthropology*, v. 141, Supplement 50:130
58. **Schoenemann, P.T.**, J. Monge, B.B. Avants, J.C. Gee, 2009 “An atlas of modern human cranial morphology constructed via non-rigid deformation analysis of high-resolution CT images.” *American Journal of Physical Anthropology*, v. 138, Supplement 48:231
59. **Schoenemann, P. T.**, R. L. Holloway, B. B. Avants, J. C. Gee, 2008, “Endocast asymmetry in pongids assessed via non-rigid deformation analysis of high-resolution CT images.” *American Journal of Physical Anthropology*, v. 135, Supplement 46:187-188
60. **Schoenemann, P. T.**, J. Monge, B. B. Avants, D. Glotzer, J. C. Gee, 2007, “Sex differences in cranial form assessed via non-rigid deformation analysis of high-resolution CT images” *American Journal of Physical Anthropology*, v. 132, Supplement 44:209
61. L.D. Glotzer, **P. T. Schoenemann**, 2007, “4-dimensional diffeomorphic modeling: A novel approach for investigating human embryonic brain development” *American Journal of Physical Anthropology*, v. 132, Supplement 44:115
62. **Schoenemann, P. T.**, J. S. Allen, 2006, “Scaling of brain and body weight within modern and fossil hominids: implications for the Flores specimen” *American Journal of Physical Anthropology*, v. 129, Supplement 42:159-160
63. Holloway, R.L., P. Brown, **P.T. Schoenemann**, J. Monge, 2006 “The brain endocast of Homo floresiensis: microcephaly and other issues...” *American Journal of Physical Anthropology*, v. 129, Supplement 42:105
64. Avants, Brian B., J. C. Gee, **P. T. Schoenemann**, J. Monge, J. E. Lewis and Ralph L. Holloway, 2005, “A new method for assessing endocast morphology: calculating local curvature from 3D CT images” *American Journal of Physical Anthropology*, v. 126, Supplement 40:67

65. **Schoenemann, P. T.**, B. B. Avants, J. C. Gee, L. D. Glotzer, and M. J. Sheehan, 2004, "Analysis of chimp-human brain differences via non-rigid deformation of 3D MR images" *American Journal of Physical Anthropology*, v. 123, Supplement 38:174-175
66. Avants, B., J. Gee, **P. T. Schoenemann**, J. Monge, J. E. Lewis, R. L. Holloway, 2004, "Validation of plaster endocast morphology through 3D CT image analysis" *American Journal of Physical Anthropology*, v. 123, Supplement 38:56
67. Lewis, J. E., **P. T. Schoenemann**, and J. Monge, 2004, "Endocranial capacity estimated from 3-D CT: Methodological issues" *American Journal of Physical Anthropology*, v. 123, Supplement 38:135
68. Monge, J., **P. T. Schoenemann**, J. Lewis, and D. Glotzer, 2004, "The CT Database at the University of Pennsylvania Museum" *American Journal of Physical Anthropology*, v. 123, Supplement 38:149
69. Meyer, M., J. Blumenfeld, and **P. T. Schoenemann**, 2004, "Geographic patterns of nasal morphology in *Homo*" *American Journal of Physical Anthropology*, v. 123, Supplement 38:146-147
70. **Schoenemann, P. Thomas**, and L. Daniel Glotzer, 2003, "Evolution of the prefrontal cortex: A stereological analysis of primate brain MRI scans" *American Journal of Physical Anthropology*, v.120, Supplement 36:185-186
71. **Schoenemann, P. Thomas**, 2000, "The effects of different brain indices on brain/behavior relationships: a within-species study of humans," *American Journal of Physical Anthropology*, Supplement 30:273
72. **Schoenemann, P. Thomas**, 1999, "Relationships between prefrontal volume and behavior in normal human females," *American Journal of Physical Anthropology*, Supplement 28:244
73. **Schoenemann, P. Thomas**, 1998, "Relationships between corpus callosum morphology and behavior in normal human females," *American Journal of Physical Anthropology*, Supplement 26:196-197
74. **Schoenemann, P. Thomas**, 1995, "Brain size scaling and body composition in mammals: Implications for the sex difference in brain size in *Homo sapiens*," *American Journal of Physical Anthropology*, Supplement 19:298
75. **Schoenemann, P. T.**, 1989, "Comparison of intraspecific craniometric variability in *Homo*, *Pan*, and *Gorilla*," *American Journal of Physical Anthropology*, v.78(2):298

Web Resources

76. Podcast of invited conference lecture: "Evolution of Brain and Language," Language as a Complex Adaptive System Conference, 60th Anniversary Celebration of the journal *Language Learning*, University of Michigan-Ann Arbor, November 2008: <http://www.wiley.com/bw/podcast/lang.asp>
77. Open Research Scan Archive Research Scan website: <http://plum.museum.upenn.edu/~orsa/ORSA/Welcome.html/>
78. Open Research Scan Archive Educational Website: <http://www.indiana.edu/~orsa/> Contains high resolution interactive 3D movies of 30 fossil Hominin specimens, basic information about these fossils, and maps them on Google Earth. This has been co-developed with Janet Monge (University of Pennsylvania), Cameron Griffith (Indiana University), Delanie Hurst (Indiana University).
79. Human Brain Evolution Laboratory website: <http://www.indiana.edu/~brainevo/lab.html>

Publications in Preparation

- “Acoustic communities: Vocal repertoire size predicts brain size in primates” co-authored with Delanie R. Hurst (about to be submitted)
- “Asymmetry in the human brain assessed via non-rigid diffeomorphic MRI registration” co-authored with Lindsey Kitchell
- “Relationships between corpus callosum morphology and behavior in normal human females using voxel-based deformable registration analysis”, coauthored with James Gee, Abraham Dubb, Jian Hu, Jason Lewis
- “Scaling of brain and body weight within modern and fossil hominids: implications for the Flores specimen,” co-authored with John S. Allen.
- “Methodological issues in estimation of endocranial capacity from 3-D CT.”, coauthored with Jason E. Lewis & Janet M. Monge; revise and resubmit to *Journal of Human Evolution*
- “Initial word learning in children: A neural net model that does not require language-specific innate constraints”
- “A test of the social intelligence hypothesis in healthy individuals”

Media Reports

- Kate Wong, 2014. “Human or Hobbit?” *Scientific American*, 311(5), 28–29. Includes quotes from me about why the Hobbit is so odd from a brain evolution standpoint.
- NOVA ScienceNow documentary, October 10, 2012, “What makes us human?”, <http://www.pbs.org/wgbh/nova/evolution/what-makes-us-human-pro.html>. I CT scanned stone tools and created video images of these for use in this documentary.
- Kerry Grens, WHYY Radio, December 15 2008, “Scanning skulls for their secrets”, story on scanning the Hyrtl Collection of skulls from the Mütter Museum in Philadelphia by our Open Research Scan Archive, text, podcast and slideshow available online at <http://whyy.org/cms/news/health-science/2008/12/15/scanning-skulls-for-their-secrets/1582/>
- Anonymous, April 2007, Penn Museum press release (picked up by the Associated Press and various other local media): “Two 4600 Year Old Skulls from Famous Excavations at Royal Tombs of Ur, Iraq Traveled to the Hospital of the University of Pennsylvania For CAT Scans Sunday morning, April 15”, <http://www.museum.upenn.edu/new/news/fullrelease.php?which=274>; also: <http://www.stonepages.com/news/archives/002342.html>, <http://historyhuntersinternational.org/index.php/topic,1774.0.html>, <http://www.freerepublic.com/focus/f-news/1817303/posts>
- Kate Wong, 2006, “Hobbit News,” in Blog: Sciam Observations: Opinions, arguments and analyses from the editors of *Scientific American*, <http://www.sciam.com/podcast/episode.cfm?id=00064EE1-06EB-1417-86EB83414B7F0000>
- BBC Horizon documentary, 2005, “The Mystery of the Human Hobbit”. I facilitated the scanning of an endocast of the Flores LB1 specimen for the documentary, and contributed 3D reconstructions of the scan for the filming.
- Haseltine, Eric, 2001, “Does your brain measure up? When it comes to smarts, size matters,” *Discover Magazine* v.22(9):88.

Olmstead, Susan C., 2000, "Is a bigger brain a better brain?" *Advance for Imaging and Radiation Therapy Professionals*, July 17, 2000 issue, p. 18.

Grants

- \$3,197,333 from the Templeton Foundation. Grant title: "What Drives Human Cognitive Evolution?" Co-PI with Nickolas Toth, Kathy Schick, Colin Allen, and Peter Todd. December 2015-August 2018
- \$6,000 from the College of Arts and Sciences, Indiana University, for support of the 8th International Conference in Evolutionary Linguistics to be held at Indiana University, Bloomington, August 2016
- \$4,500 from the Office of the Vice Provost for International Affairs, Indiana University, for support of the 8th International Conference in Evolutionary Linguistics to be held at Indiana University, Bloomington, August 2016
- \$4,000 from the Ostrom Fund, Indiana University, for support of the 8th International Conference in Evolutionary Linguistics to be held at Indiana University, Bloomington, August 2016
- \$4,500 from the Consortium for the Study of Religion, Ethics, and Society at Indiana University, for a workshop on the evolutionary origins of the sense of wonder. Co-PI with Colin Allen, Nick Toth, Kathy Schick, and Kevin Hunt. Fall 2015
- \$2,500 from the Stone Age Institute, for a workshop on the evolutionary origins of the sense of wonder. Co-PI with Colin Allen, Nick Toth, Kathy Schick, and Kevin Hunt. Fall 2015
- \$6,000 from Indiana University: Research Leave Supplement for Fulbright Fellowship to Macau, Fall 2014
- \$8,000 from Indiana University: Summer Faculty Fellowship. Summer 2011
- \$8,000 from Indiana University: Summer Faculty Fellowship. Summer 2010
- \$238,664 from NSF: "Expansion and Improvement of the Penn Cranial CT Database," PI. June 2005 – June 2009
- \$33,600 from University of Pennsylvania Research Foundation. Grant title: "High-resolution computed tomography (CT) of human and non-human crania from the University Museum: Collection archiving, and analysis". Co-PI with Dr. Janet Monge. June 2002 - June 2005
- \$29,933 from the National Science Foundation, Grant title: "Monkey life histories and dental hard tissue development". Co-PI with Dr. Jacqueline E. Bowman. July 2002-December 2004
- \$45,000 from the Alexis de Tocqueville Institution. Grant title: "MRI study of brain and behavior." April 1993 - September 1996

Grants awarded to my advisees:

- \$7,546 from the National Science Foundation: "Defining Evolutionary Units in the Neocortex: A Quantitative Assessment of Morphogenetic Patterns in the Embryonic Human Brain," Dissertation Improvement Grant to Daniel Glotzer. Co-PI. December 2006
- \$18,068 from the Wenner-Gren Foundation for Anthropological Research: "Diffeomorphic Analysis of Human Pre- natal Neuroanatomy: A Quantitative Assessment of Morphogenetic Patterns in the Developing Neocortex," Dissertation Fieldwork Grant to Daniel Glotzer, November 2006

Honors and awards

- May-June 2015 *Visiting Scholar*, Center for the Study of Language and Cognition, Zhejiang University, (浙江大学), Hangzhou, China
- September-2014 - January 2015 *Fulbright Scholar*, Centre for Translation, Interpreting and Cognition, Department of English, and the Centre for Teaching and Learning Excellence, University of Macau, Macau, China
- May-June 2014 *Visiting Scholar*, Center for the Study of Language and Cognition, Zhejiang University, (浙江大学), Hangzhou, China
- Summer 2011 *Summer Faculty Fellowship*, Indiana University
- March 2011 *Trustee's Teaching Award*, Indiana University
- Summer 2010 *Summer Faculty Fellowship*, Indiana University
- May 1997-July 1998 *NIH National Research Service Award*, Post-doctoral fellowship in brain imaging
- June 1996 *Human Behavior and Evolution Society Young Investigator Award* for a talk entitled: "Is Brain Size a Causal Influence on IQ?" presented at the 8th Annual Meeting
- Fall 1994 *Robert H. Lowie Graduate Scholarship* research grant, U. C. Berkeley
- Spring 1994 *Robert H. Lowie Graduate Scholarship* research grant, U. C. Berkeley
- 1993-1994 *Charles Atwood Kofoid Fellowship* for graduate study in Anthropology at the University of California at Berkeley
- Spring 1991 *1990-1991 Outstanding Graduate Student Instructor*, University of California at Berkeley
- 1989-1990 *University of California at Berkeley Regents Fellowship*
- Spring 1989 *Robert H. Lowie Graduate Scholarship* research grant, U. C. Berkeley
- Spring 1988 *Graduate Student Instructor Course Improvement Grant* from the U.C. Berkeley Committee on Teaching
- May 1986 *High Honors* conferred on B.A. for work on the delineation, origin and evolutionary implications of modern human geographic variation in sexual dimorphism

Conferences/Workshops organization

- Session Chair, "Paleoanthropology: Late Homo", 86th Annual Meeting of the American Association of Physical Anthropologists, New Orleans, Louisiana, April 2017
- Local Organizing Chair for the *8th International Conference in Evolutionary Linguistics (CIEL-8)*, at Indiana University, Bloomington, August 8-10, 2016
- Organizing Chair for the *Workshop on the Origins of Awe and Wonder*, at Indiana University, Bloomington, Sunday, April 3-4, 2016

Lectures, Papers Presentations*Sponsored Lectures And Workshops*

1. *The evolutionary origins of modern humans and language*, Keynote at the International Conference on the Ancestry of the Languages and Peoples of China”, College of Chinese Language and Culture, Jinan University, Guangzhou, China, May 31, 2017
2. *Communication and Language as a Driver of Human Cognitive Evolution*, Evolution of Human Cognition Symposium, The Hong Kong Polytechnic University, Hong Kong, China, March 20, 2017
3. *Communication and Language as a Driver of Human Cognitive Evolution*, Templeton Evolution of Human Cognition Workshop, Institute of Vertebrate Paleontology and Paleoanthropology, Beijing, China, March 10, 2017
4. *Evolution of Brain and Language*, Colloque International: Évolution du Cerveau et des Capacités Cognitives des Hominidés Fossiles Depuis Sahelanthropus Tchadensis, Il Y A Sept Millions D’années, Jusqu’a L’homme Moderne, Centre Européen de Recherches Préhistoriques de Tautavel, Tautavel, France, October 29, 2016
5. *Evolution of Brain and Language* (8 lectures), Center for the Study of Language and Cognition, Zhejiang University, (浙江大学), Hangzhou, China, May-June 2016
6. *CIEL7 - Conference Commentary and Overview*, Summary presentation at the Seventh International Conference in Evolutionary Linguistics (CIEL7), Nankai University, Tianjin, China, June 14, 2015
7. *The interplay of culture and biology in the evolution of language*, Keynote lecture for the Seventh International Conference in Evolutionary Linguistics (CIEL7), Nankai University, Tianjin, China, June 13, 2015
8. *Models of language evolution*, invited lecture, Xi’an Jiaotong University, Xi’an, China, May 22, 2015
9. *The evolution of brain, language, and conceptual complexity*, 3 lectures, visiting scholar, Shaanxi Normal University, Xi’an, China, May 20-22, 2015
10. *Evolution of Brain and Language* (8 lectures), Center for the Study of Language and Cognition, Zhejiang University, (浙江大学), Hangzhou, China, May-June 2015
11. Presenter at the Veritas Forum: “*Is Science Enough? A Conversation on Naturalism, Faith, and Meaning*,” along with Colin Allen, John M. Beggs, and Timothy O’Connor, Indiana University, October 27, 2015
12. *The evolution of conceptual complexity and its role in language evolution*, Keynote lecture for the Sixth International Conference in Evolutionary Linguistics (CIEL6), Xiamen University, Xiamen, China, November 21, 2014
13. *The evolution of language*, Faculty of Arts and Humanities - Department of English Lecture Series, at the University of Macau, November 12, 2014
14. *Brain, language, and the evolution of human behavioral complexity*, Keynote lecture at the First Annual Meeting of the Joint Research Center for Language and Human Complexity, The Chinese University of Hong Kong, November 8, 2014
15. *The evolution of brain and language*, Department of Linguistics and Modern Languages, The Chinese University of Hong Kong, October 7, 2014

16. *Evolution of Brain and Language* (8 lectures), Center for the Study of Language and Cognition, Zhejiang University, (浙江大学), Hangzhou, China, May-June 2014
17. *Brain evolution and human uniqueness*, 2013-14 Evolution and Human Adaptation (EHAP) lecture series at the University of Michigan, Ann Arbor, February 4, 2014
18. *Sequential processing in humans and apes*, invited talk at Professor Morten Christiansen's Lab, Cornell University, Ithaca, New York, October 7, 2013
19. *Thoughts on the Evolution of the Brain and Language*, invited talk at Professor Morten Christiansen's Language Evolution Class, Cornell University, Ithaca, New York, October 7, 2013
20. *Broca's Area and the Evolution of Language*, invited talk at the Cognitive Science Colloquium Series, Cornell University, Ithaca, New York, October 4, 2013
21. *The use of CT and MRI for exploring the evolution of the brain*, sponsored talk at the Laboratory for Ambient Intelligence and Multimodal Systems of Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China, August 16, 2013
22. *The Evolution of the Brain*, sponsored talk at the Complex Systems Research Center, Academy of Mathematics and Systems Science, Beijing, China, May 15 2013
23. *The evolution of brain and language*, sponsored public talk, 2013 Symposium on L1 Reading Across Different Languages & L2 Literacy Acquisition, Institute of Cognitive Neuroscience, National Central University and Laboratories for Cognitive Neuroscience, National Yang Ming University, Taipei, Taiwan, May 10-12, 2013
24. *Some thoughts from an evolutionary perspective*, invited panelist comments for the 500 Billion Words Workshop at Indiana University, April 19-20, 2013
25. *Broca's area and the evolution of language*, Keynote speech at the Conference in Evolutionary Linguistics, Peking University, Beijing, China, November 9-12, 2012
26. *Language evolution: The role of Broca's area*. sponsored talk at the U.C. Merced Cognitive and Information Sciences group, April 16, 2012
27. *Research on the evolution of brain and language*. DePauw University Psychology Department Invited Speaker Series, DePauw University, November 15, 2011
28. *A complex adaptive systems approach to language and brain*. Workshop on Complexity in Language: Developmental and Evolutionary Perspectives, sponsored by the Collegium de Lyon and Ecole Normale Supérieure de Lyon, organized by Salikoko Mufwene, Lyon, France, May 23-24, 2011
29. *Evolution of language and the brain*. Workshop on the Evolution of Human Cognition, sponsored by the Interdisciplinary Program in Cognitive Science, Georgetown University, March 18, 2011
30. Official discussant for *Human Biology and the Origins of Homo*, a Wenner-Gren Foundation conference organized by Susan Antón and Leslie Aiello, Sintra, Portugal, March 4-11, 2011,
31. *Creating an online archive of high-resolution CT images of museum specimens: The Open Research Scan Archive (ORSA)*. Co-delivered with Janet Monge; NESPOS (Pleistocene People and Places) symposium: "Pleistocene Databases: Acquisition, Storing, Sharing", Neanderthal Museum, Mettmann, Germany, June 10, 2010

32. *Evolution of the Brain*. 2nd Annual Neuroscience Graduate Group Student Retreat, Academy of Natural Sciences, Philadelphia, October 30, 2009
33. *Evolution of Brain and Language*. Language as a Complex Adaptive System Conference, 60th Anniversary Celebration of the journal *Language Learning*, University of Michigan-Ann Arbor, November 2008. Podcast available online at: <http://www.wiley.com/bw/podcast/lang.asp>
34. *The evolution of the brain and the evolution of language*. Department of Anthropology, Bloomington, Indiana, March 2008
35. *The meaning of brain size: the evolution of conceptual complexity*. The Human Brain Evolving: Papers in Honor of Ralph L. Holloway, Indiana University, Bloomington, Indiana, April 2007
36. *Evolution of the brain with relevance to language*. Seminar on Language, Evolution, and the Brain, International Institute of Advanced Studies, Kyoto, Japan, April 2007
37. *What grammatical rules are least likely to emerge solely from social interactions among domain-general learning mechanisms?* Language Evolution Workshop, Santa Fe Institute, Santa Fe, New Mexico, March 2007
38. *Research on brain and behavior from an evolutionary perspective*. Department of Sociology and Anthropology, James Madison University, Harrisonburg, Virginia, January, 2007.
39. *Research on brain and behavior from an evolutionary perspective*. Stone Age Institute, Bloomington, Indiana, September 2006
40. *The evolution of brain and language*. University of Michigan, Dearborn, March 2005
41. *An Evolutionary Perspective On Language And Brain*. Language Evolution Workshop, Santa Fe Institute, Santa Fe, New Mexico, March 2005
42. *Assessing The Relevance Of Homo Floresiensis For The Evolution Of Hominin Brain And Behavior*. Language Evolution Workshop, Santa Fe Institute, Santa Fe, New Mexico, March 2005
43. *Research on brain and behavior from an evolutionary perspective*. Department of Anthropology, University of California, Davis, March 2005
44. *The evolution of conceptual complexity and its relevance to language*. International Workshop on the Evolution of Cognition, University of Delaware, February 2005
45. *The Evolution of Semantic Complexity*, Workshop on Language Acquisition, Change, and Emergence, City University of Hong Kong, November 2001
46. *Evolutionary principles and the emergence of language*, Department of Psychology, Cornell University, October 2001
47. *Neuroanatomical associations with behavior from an evolutionary perspective*, Center for Cognitive Neuroscience, University of Pennsylvania, September 2001
48. *The Emergence of Syntax in Language Evolution*, Workshop on Language Acquisition and Change, City University of Hong Kong, May-June 2001
49. *Evolutionary principles and the evolution of language*, Language Emergence and Mathematical Modeling Working Group, Santa Fe Institute, Santa Fe, New Mexico, February 2001
50. *Brain and Behavior from an Evolutionary Perspective*, Connecticut College, October 28, 1999

Invited Lectures

51. *Report on Templeton Grant: China and Beyond*, Wang Research Group, The Hong Kong Polytechnic University, Hong Kong, China, March 1, 2017
52. *The role of Broca's area for processing sequential information: Update on progress*, Wang Research Group, Chinese University of Hong Kong, Hong Kong, China, January 12, 2015
53. *A review of the neuroscience of language*, 1st International Symposium on Cognitive Research on Translation and Interpreting, Centre for Studies of Translation, Interpreting and Cognition, University of Macau, December 12, 2014
54. *Animal Communication and the Evolution of Human Language*, Choi Kai Yau College, University of Macau, November 13, 2014
55. *Evolution of the Human Brain*, Neuroscience Club, Indiana University, Bloomington, February 12, 2014
56. *Sequential pattern learning and the evolution of Broca's area*, Cognitive Neuroscience Seminar, Cognitive Science Program, Indiana University, Bloomington, January 13, 2014
57. *The Use of Neuroimaging for Studies of Brain Evolution*, Third Indiana Neuroimaging Symposium, Indiana University, Bloomington, Indiana, October 25, 2013
58. *Conceptual complexity as a driver of language evolution*, invited talk at Professor William S.-Y. Wang's Research Group, Department of Electronic Engineering and Department of Linguistics and Modern Languages, Chinese University of Hong Kong, Hong Kong, China, December 17, 2013
59. *Eulogy for Professor Vincent Sarich*, invited talk at U.C. Berkeley, April 27, 2013
60. *The Origin and Evolution of the Modern Human Brain. Origins: The Evolution of the Universe, the Earth, Life, and the Human Species*, The Stone Age Institute and Indiana University, October 23, 2013
61. *Research on Brain Evolution, guest lecture in "Proseminar in Bioanthropology," Prof. Della Cook, Indiana University, September 21, 2012*
62. *Evolution of Language*, IU Secular Alliance Club, February 12, 2012
63. *Evolution of the Human Brain*, IU Undergraduate Neuroscience Club, February 9, 2012
64. *Early Hominin Evolution, with a Focus on China*, guest lecture in "Chinese Archaeology," Prof. Ling-yu, Indiana University, January 24, 2012
65. *The evolution of language*, guest lecture in "Bioanthropology," Prof. Michael Muehlenbein, Indiana University, December 1, 2011
66. *The Evolutionary History of the Brain*, Cafe Inquiry, Center for Inquiry Indiana, Indianapolis, November 3, 2011
67. *The Origin and Evolution of the Modern Human Brain. Origins: The Evolution of the Universe, the Earth, Life, and the Human Species*, The Stone Age Institute and Indiana University, October 23, 2011
68. *The Evolution of the Human Brain*. Indianapolis Zoo, October 4, 2011
69. *The Origin of the Modern Human Brain and Consciousness. Origins: The Evolution of the Universe, the Earth, Life, and the Human Species*, The Stone Age Institute and Indiana University, October 10, 2009

70. *Human Evolution*, guest lecture in “Buried Cities” Prof. Julie Solometo, James Madison University, January 26, 2009
71. *Anthropological Considerations in Language Acquisition*. Workshop: Levels of Consciousness in Language Acquisition, Center for the Study of Complex Systems and the Cognition and Perception Division of the Department of Psychology at the University of Michigan, June 2008
72. *Evolution of the prefrontal cortex implications for human behavioral evolution*. Department of Biology, James Madison University, April 2008
73. *Research on the evolution of brain and language*. Brain and Language Lecture Series, University of Pennsylvania, February 2002
74. *Applied correlational techniques*, guest lecture, U.C. Berkeley, April 1, 1997.
75. *Correlational techniques in bio-behavioral research*, guest lecture, U.C. Berkeley, April 16, 1996.
76. *Brain structure, function, and evolution*, guest lecture, U. C. Berkeley, April 15, 1993.
77. *Recombinant DNA technology, blood groups, and natural selection*, guest lecture, U. C. Berkeley, February 13, 1992.
78. *Linguistic paleontology: the linguistic reconstruction of prehistoric culture*, guest lecture, U. C. Berkeley, November 29, 1989.

Conference And Workshop Papers

79. *Modern human variation in brain size: Implications for the Dmanisi hominins and other fossil taxa*, co-authored with Ralph L. Holloway, 86th Annual Meeting of the American Association of Physical Anthropologists, New Orleans, Louisiana, April 2017
80. *Homo naledi's frontal lobe: Modern in form, ancestral in size*, co-authored with Shawn D. Hurst (senior author), Ralph L. Holloway, Heather Garvin, Tom Schoenemann, William B. Vanti, John Hawks, and Lee Berger, 86th Annual Meeting of the American Association of Physical Anthropologists, New Orleans, Louisiana, April 2017
81. *The Homo naledi posterior brain endocasts and their significance for understanding brain reorganization*, co-authored with Ralph L. Holloway (senior author), Shawn D. Hurst, Heather Garvin, Will Vanti, John Hawks, and Lee Berger, 86th Annual Meeting of the American Association of Physical Anthropologists, New Orleans, Louisiana, April 2017
82. *Modern human variation in brain size: Implications for the Dmanisi hominins and other fossil taxa*, 100+25 years of Homo erectus: Dmanisi and beyond, conference in Tbilisi, Republic of Georgia, September 20-24, 2016
83. *Brain function and Broca's Cap: A meta-analysis of fMRI studies*, co-authored with Ralph L. Holloway. 85th Annual Meeting of the American Association of Physical Anthropologists, Atlanta Georgia, April 2016
84. *Why Paleoneurology Needs the Lunate Sulcus*, co-authored with Ralph L. Holloway (senior author) and Doug Broadfield. 85th Annual Meeting of the American Association of Physical Anthropologists, Atlanta Georgia, April 2016
85. *Handedness and the evolution of tool use in humans*, 80th Annual Meeting of the Society for American Archaeology, San Francisco, California, April 16, 2015

86. *Estimated total time spent in social play prior to adulthood is strongly associated with brain size in primates*, 84th Annual Meeting of the American Association of Physical Anthropologists, St. Louis, Missouri, March 2015
87. *The New and Old in Hominid Brain Evolution: Why Paleoneurology Needs the Lunate Sulcus*, co-authored with Ralph L. Holloway (senior author), Shawn D. Hurst, and D. C. Broadfield. 84th Annual Meeting of the American Association of Physical Anthropologists, St. Louis, Missouri, March 2015
88. *The New and the Old in Hominid Brain Evolution, Part II: Why Paleoneurology Needs a Chimpanzee Brain Atlas*. co-authored with Shawn D. Hurst (senior author), Ralph L. Holloway, Doug C. Broadfield, and Kevin D. Hunt, 84th Annual Meeting of the American Association of Physical Anthropologists, St. Louis, Missouri, March 2015
89. *Inferences about prefrontal cortex size in humans from motor and premotor area scaling relationships*, 83rd Annual Meeting of the American Association of Physical Anthropologists, Calgary, Canada, April 2014
90. *The occipital lobes of Neandertal brains, orbit size, and cognition: What is the evidence for Neandertal cognitive inferiority?* co-authored with Ralph L. Holloway (senior author), 83rd Annual Meeting of the American Association of Physical Anthropologists, Calgary, Canada, April 2014
91. *The effects of sleeping platforms on next day cognition in captive orangutans (Pongo spp.)*, coauthored with Robert W. Shumaker (senior author) and David R. Samson, 83rd Annual Meeting of the American Association of Physical Anthropologists, Calgary, Canada, April 2014
92. *Functional correlates of structural asymmetries in the human brain*, co-authored with Lindsey Kitchell (senior author), 83rd Annual Meeting of the American Association of Physical Anthropologists, Calgary, Canada, April 2014
93. *Endocranial regions associated with deception in nonhuman primates*, co-presented with Delanie R. Hurst (senior author) and Audrey R. Brittingham, 83rd Annual Meeting of the American Association of Physical Anthropologists, Calgary, Canada, April 2014
94. *The Origins Of Language In Human Evolution*, Presented At The 5Th International Conference In Evolutionary Linguistics, Chinese University Of Hong Kong, Hong Kong, China, August 17, 2013
95. *Skhul V segmentation and Broca's region asymmetries in Neandertal endocasts*, co-presented with Ralph Holloway, 82nd Annual Meeting of the American Association of Physical Anthropologists, Knoxville, Tennessee, April 2013
96. *Structural asymmetries in the human brain assessed via MRI*, co-presented with Lindsey M. Kitchell, and Mackenzie Loyet, 82nd Annual Meeting of the American Association of Physical Anthropologists, Knoxville, Tennessee, April 2013
97. *Assessing site specific Changes in endocranial shape associated with frugivory in primates*, poster co-presented with Delanie R. Hurst, Brian Avants and James C. Gee, 82nd Annual Meeting of the American Association of Physical Anthropologists, Knoxville, Tennessee, April 2013
98. *Impact of tool use on brain development of non-human primates*, co-presented with Audrey R. Brittingham, Delanie R. Hurst, Brian Avants and James C. Gee, 82nd Annual Meeting of the American Association of Physical Anthropologists, Knoxville, Tennessee, April 2013
99. *Research at the Brain Evolution Lab*, presentation at the Center for the Integrative Study of Animal Behavior undergraduate research opportunities evening, December 5, 2012

100. *Associations between localized variation in brain anatomy and social behavior in healthy human subjects*, poster co-presented with Loyet, Mackenzie M., Brian B. Avants and James C. Gee, 81st Annual Meeting of the American Association of Physical Anthropologists, Portland, Oregon, April 2012
101. *How well does endocranial morphology predict behavior differences in primates?* talk co-presented with Delanie R. Hurst, Mackenzie M. Loyet, Brian B. Avants and James C. Gee, 81st Annual Meeting of the American Association of Physical Anthropologists, Portland, Oregon, April 2012
102. *Differences in endocranial shape between Homo and Pongids assessed through non-rigid deformation analysis of high-resolution CT images*, talk co-authored with Ralph Holloway, Janet Monge, Brian Avants, and James Gee, 80th Annual Meeting of the American Association of Physical Anthropologists, Minneapolis, Minnesota, April 2011
103. *The LBI endocast: un-adorned, un-smoothed, a replication study based on the original CT scan data*, talk co-authored with R.L. Holloway (senior author) and J. Monge, 80th Annual Meeting of the American Association of Physical Anthropologists, Minneapolis, Minnesota, April 2011
104. *New 3D automatic methods for the analysis of the endocranial shape and its relationship with ectocranial structures: assessment and preliminary experiments*, poster co-authored with S. Prima, R. Holloway, G. Subsol, B. Combes, J. Braga and J. Monge, 80th Annual Meeting of the American Association of Physical Anthropologists, Minneapolis, Minnesota, April 2011
105. *The importance of exploring non-linguistic functions of human brain language areas for explaining language evolution*. Poster presented at EVOLANG8: The 8th International Conference on the Evolution of Language, Utrecht, Netherlands, April 2010.
106. *Creating statistical atlases of modern primate endocranial morphology using non-rigid deformation analysis of high-resolution CT images*. Talk co-authored with J. Monge, R. L. Holloway, B.B. Avants, and J.C. Gee, 79th Annual Meeting of the American Association of Physical Anthropologists, Albuquerque, New Mexico, April 2010
107. *The Hobbit Brain: some questions about its 'derived' features*. Talk co-authored with R. L. Holloway (senior author) and J. Monge, 79th Annual Meeting of the American Association of Physical Anthropologists, Albuquerque, New Mexico, April 2010
108. *An atlas of modern human cranial morphology constructed via non-rigid deformation analysis of high-resolution CT images*. Poster co-presented with J. Monge, B.B. Avants, and J.C. Gee, 78th Annual Meeting of the American Association of Physical Anthropologists, Chicago, Illinois, April 2009
109. *Endocast asymmetry in pongids assessed via non-rigid deformation analysis of high-resolution CT images*. Poster co-presented with R. L. Holloway, B. B. Avants, and J. C. Gee, 77th Annual Meeting of the American Association of Physical Anthropologists, Columbus, Ohio, April 2008
110. *Sex differences in cranial form assessed via non-rigid deformation analysis of high-resolution CT images*. Poster co-presented with J. Monge, B. B. Avants, D. Glotzer, J. C. Gee, 76th Annual Meeting of the American Association of Physical Anthropologists, Philadelphia, Pennsylvania, March 2007
111. *4-dimensional diffeomorphic modeling: A novel approach for investigating human embryonic brain development*. Poster co-presented with L.D. Glotzer, 76th Annual Meeting of the American Association of Physical Anthropologists, Philadelphia, Pennsylvania, March 2007

112. *Scaling of brain and body weight within modern and fossil hominids: implications for the Flores specimen.* Talk co-authored with John S. Allen, 75th Annual Meeting of the American Association of Physical Anthropologists, Anchorage, Alaska, March 2006
113. *The brain endocast of Homo floresiensis: microcephaly and other issues...* Talk co-authored with R. L. Holloway, P. Brown, J. Monge, 75th Annual Meeting of the American Association of Physical Anthropologists, , Anchorage, Alaska, March 2006
114. *A new method for assessing endocast morphology: calculating local curvature from 3D CT images.* Talk co-authored with B. B. Avants, J. C. Gee, J. Monge, J. E. Lewis, and R. L. Holloway, 74th Annual Meeting of the American Association of Physical Anthropologists, Milwaukee, Wisconsin, April 2005
115. *Analysis of chimp-human brain differences via non-rigid deformation of 3D MR images.* Talk co-authored with B. B. Avants, J. C. Gee, L. D. Glotzer, and M. J. Sheehan, 73rd Annual Meeting of the American Association of Physical Anthropologists, Tampa, Florida, April 2004
116. *Validation of plaster endocast morphology through 3D CT image analysis.* Talk co-authored with B Avants, J. Gee, J. Monge, J. E. Lewis, and R. L. Holloway, 73rd Annual Meeting of the American Association of Physical Anthropologists, Tampa, Florida, April 2004.
117. *Endocranial capacity estimated from 3-D CT: Methodological issues.* Talk co-authored with J. E. Lewis and J. Monge, 73rd Annual Meeting of the American Association of Physical Anthropologists, Tampa, Florida, April 2004
118. *The CT Database at the University of Pennsylvania Museum.* Talk co-authored with J. Monge, J. E. Lewis and D. Glotzer, 73rd Annual Meeting of the American Association of Physical Anthropologists, Tampa, Florida, April 2004
119. *Geographic patterns of nasal morphology in Homo.* Talk co-authored with M. Meyer and J. Blumenfeld, 73rd Annual Meeting of the American Association of Physical Anthropologists, Tampa, Florida, April 2004
120. *The Penn Cranial CT project: creating an online archive of high-resolution CT images of museum specimens.* Poster co-presented with Janet Monge, Annual Meeting of the Natural Science Collections Alliance, Berkeley, California, June 2003
121. *Evolution of the prefrontal cortex: A stereological analysis of primate brain MRI scans.* Poster co-presented with L. Daniel Glotzer, 72nd Annual Meeting of the American Association of Physical Anthropologists, Tempe, Arizona, April 2003
122. *The relevance of brain size for understanding the evolution of semantic complexity,* 4th Annual Evolution of Language Conference, Harvard University, March 2002
123. *Modeling evolution of language without “mind reading”,* Co-authored with Craig Martell, Human Behavior and Evolution Society Annual Meeting, London, U.K., June 2001
124. *A neural net model of word learning in children that does not require language-specific innate constraints,* Co-authored with Craig Martell, Human Behavior and Evolution Society Annual Meeting, London, U.K., June 2001
125. *The effects of different brain indices on brain/behavior relationships: a within-species study of humans,* 69th Annual Meeting of the American Association of Physical Anthropologists, San Antonio Texas, April 2000

126. *Relationships between corpus callosum morphology and behavior in normal human females*, 67th Annual Meeting of the American Association of Physical Anthropologists, Salt Lake City, Utah, April 1998.
127. *Brain Anatomy and Behavior in an Evolutionary Perspective*, 9th Annual Meeting of the Human Behavior and Evolution Society, University of Arizona, Tucson, June 1997.
128. *Is Brain Size a Causal Influence on IQ?* 8th Annual Meeting of the Human Behavior and Evolution Society, Northwestern University, Evanston, Illinois, June 28 - July 2, 1996.
129. *Is syntax simply an emergent characteristic of the evolution of semantic complexity?* 7th Annual Meeting of the Human Behavior and Evolution Society, University of California, Santa Barbara, June 28 - July 2, 1995.
130. *Brain size scaling and body composition in mammals: Implications for the sex difference in brain size in Homo sapiens*, 64th Annual Meeting of the American Association of Physical Anthropologists, Oakland, California, April 1995.
131. *Comparison of intraspecific craniometric variability in Homo, Pan, and Gorilla*, 58th Annual Meeting of the American Association of Physical Anthropologists, California, April 1989.

Service And Outreach Lectures

Evolution, Sunday Assembly, Bloomington, Indiana, February 15, 2015

When did language originate?, Choi Kai Yau College Faculty Lunch, University of Macau, January 2015

Using computers to teach physical anthropology: the Blind Watchmaker evolution simulation software, Topics on Teaching: Displaying Computer Text and Images, U.C. Berkeley Office of Educational Development, April, 1989.

Teaching

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|----------------------|--|
| Fall 2009 to present | Indiana University, Cognitive Science Program:
<i>Graduate courses:</i> “Brain and Cognition,” “Evolution of Human Cognition”, “Language Evolution.”
<i>Undergraduate courses:</i> “Introduction to Cognitive Science.”
Department of Anthropology:
<i>Graduate courses:</i> “Evolution of Cognition,” “Brain Evolution,” “Language Evolution,” “Evolutionary Theory.”
<i>Undergraduate courses:</i> “Introduction to Cognitive Science,” “Introduction to Evolution of the Brain,” “Human Origins and Prehistory,” “Evolution of Human Behavior,” “Evolution of language,” |
| Fall 2007 to 2009 | James Madison University, Department of Sociology and Anthropology:
<i>Undergraduate courses:</i> “Introduction to Biological Anthropology,” “Human Evolution,” “Evolution of the Brain,” “Human Variation and Adaptation,” “The Discipline of Anthropology” (team-taught collaborative effort among all the anthropology faculty at JMU) |

- Fall 2005 to Summer 2007 University of Michigan-Dearborn, Department of Behavioral Sciences:
Undergraduate courses: “Introduction to Anthropology,” “Human Evolution,” “Language and Society,” “Evolution of the Brain,” “Race and Evolution,” “Psychological Anthropology”
- Fall 1998 to Spring 2005 University of Pennsylvania, Department of Anthropology:
Graduate courses: “Evolution of Brain and Behavior,” “Perspectives on the Evolution of Human Behavior.”
Undergraduate courses: “Introduction to Evolution of the Brain,” “Evolution of Behavior,” “Human Biology,” “Introduction to Human Evolution.”
- Fall 1996 University of California, San Francisco: *Instructor* for graduate level “Gross Anatomy and Embryology” under the direction of Dr. Diane Barber, Department of Oral Biology
- Spring 1995 University of California, Berkeley, Department of Anthropology: *Instructor* (GSI IV) for undergraduate course “Evolution of Human Behavior”
- Summer and Fall 1991 University of the Pacific School of Dentistry, Department of Anatomy: *Clinical Instructor* for graduate level “Gross Anatomy” under the direction of Dr. Jack Chamberlain.
- Fall 1987 to Spring 1993 University of California, Berkeley, Department of Anthropology: *Graduate Student Instructor* for 11 undergraduate classes including: “Introduction to Physical Anthropology” and “Current Issues in Anthropological Thought”

Student Advising

Dissertation Chair:

- Marc Meyer, 2005, “Functional biology of the Homo erectus axial skeleton from Dmanisi, Georgia,” 2005, University of Pennsylvania
- Delanie Hurst, in progress, “Endocranial morphology in primates and its relationship to behavior”
- Dan Glotzer, in progress, “4-D diffeomorphic modelling of pre-natal morphogenesis”

Dissertation & Masters thesis committee member:

Indiana University:

Robert Mahaney (PhD 2016), Shawn Hurst (PhD 2017), Delanie Hurst, Mackenzie Loyet

University of Pennsylvania:

James Gallagher (Master of Liberal Arts), Dan Glotzer, Susan Haun, Jason Lewis, Jane Kauer, Marc Meyer (PhD 2005), Melissa Murphy, Seran Schug, Steven Schwartz, Susan Staggs

Graduate student advisor:

Indiana University:

Sheila Blanchard, Delanie Hurst, Shawn Hurst, Robert Mahaney, Mackenzie Loyet, Kimberly Simmons

Independent research projects:

Graduate students

Indiana University:

Robert Mahaney, Spring 2010: “Analysis of Tabun lithics”

Delanie Hurst, Spring 2012: “Vocalization repertoire size and endocranial morphology in primates”

Delanie Hurst, Spring 2011: “Vocalization repertoire size and brain size in primates”

Mackenzie Loyet, Summer 2011 - Spring 2012: “Sociality and brain morphology in modern humans”

University of Pennsylvania:

Melanie Chang, 2003: “3D analysis of frontal bone morphology”

Jason Lewis, Summer 2003-present: “Acquisition and analysis of 3D laser scans of 3.2 MYA hominid fossils”

Jason Lewis, Fall 2002-present: “CT analysis of cranial morphology”

Marc Meyer, Spring 2002: “Cerebellum morphology and behavior: and MRI study of healthy subjects”

Marc Meyer, Fall 2001: “Evolution of the cerebellum”

Dan Glotzer, Spring 2001-present: “Comparative analysis of prefrontal cortex surface area and volume in primates”

James Gallagher, Spring 2001, “Evolution of Language”

Seran Schug, Spring 2001, “Neurobiology of Body Image”

Undergraduate students:

Indiana University:

Lindsey Kitchell, Anthropology, Spring 2012: “Left-right asymmetry of the brain assessed through deformation mapping”

Audrey Brittingham, Anthropology, Fall 2011-Spring 2012: “Possible signatures of tool use on primate endocrania”

Katharine Babcock, Anthropology, Spring 2012: “Assessing the extent of overlap of brain activation during tool use with other cognitive functions reported in the literature”

James Madison University:

Joanna Bickham, Anthropology honor’s thesis, Spring 2008: “Origin and Evolution of the White Sclera of the Human Eye”

University of Michigan-Dearborn:

Leah Canvasser, Fall 2006-Spring 2007: “Hand Preference in Orangutans, Allen Swamp Monkeys, and Tamarins”

Kayla DeMarco, Fall 2006-Spring 2007: “Effects of Facial Preferences on the Likelihood of Infants Eliciting Care from Adults”

University of Pennsylvania:

R. Erik Malmgren-Samuel, independent research, Fall 2003 – Spring 2004: “An Evolutionary Perspective on ADHD: A Cross-Cultural Study of Associations with Degrees of Media Exposure”

Yuri Kruman, Anthropology honor’s thesis, Fall 2003-Spring 2004: “Comparative analysis of primate corpus callosum sexual dimorphism: An MRI study”

Michael Sheehan, independent research, Summer 2003-present: “Prefrontal cortex size in primates: 3D image analysis”

Jason Lewis, independent research, Fall 2002 – Spring 2003: “Endocranial morphology derived from high-resolution CT”

Jasmine Maldonado, Anthropology honor’s thesis, Fall 2001-Spring 2002: “Mate Jealousy: Comparison of Heterosexual and Homosexual Attitudes”

Rachel Reader, Anthropology honor’s thesis, Fall 2001-Spring 2002: “The evolution of language and music”

Elana Leventhal, Anthropology honor’s thesis, Fall 2001-Spring 2002: “Perspectives on death and dying”

Rachel Sherman, Cognitive Science major honor’s thesis, Fall 2001-Spring 2002: “How dolphins see the world: perception and cognition in a large-brained aquatic mammal”

- Maia Jachimowicz, independent research, Fall 2001-Spring 2002: “Detailed analysis of gestures in chimps: an empirical study”
- Piper Silverman, independent research, Fall 2001-Spring 2002: “Prefrontal cortex surface area in a comparative perspective”
- Stephanie Langin-Hooper, independent research, Spring 2001-Spring 2002: “Investigations into prefrontal surface area and volume in human and non-human primate brains”
- Neil Sanuck, Biological Basis of Behavior major thesis, Spring 2001-Spring 2002 “Corpus callosum morphology and behavior: advances in analysis”
- Jamie Pinto, Anthropology honor’s thesis, Fall 2000-Spring 2001: “Risk taking and mate selection: An evolutionary approach”
- Daniel Finkel, independent research, Spring 2000, “Evolution of the Visual Cortex: An Investigation of Associations with External Orbit Size”

Service

Service to the profession:

Co-director of the Open Research Scan Archive at Penn, which provides access to over 5400 high resolution research scans of skeletal material free to researchers worldwide (<http://www.indiana.edu/~orsa/>; <http://plum.museum.upenn.edu/~orsa/Welcome.html>)

Peer-reviewer for articles submitted to:

Proceedings of the National Academy of Sciences, USA

American Journal of Physical Anthropology

Journal of Human Evolution

European Journal of Neuroscience

Neuroscience & Biobehavioral Reviews

Neuroimage

Cognitive Science

Brain, Behavior and Evolution

Homo: Journal of Comparative Human Biology

Complexity

Interaction Studies: Social Behaviour and Communication in Biological and Artificial Systems

Peer-reviewer for grants submitted to:

National Science Foundation (including Dissertation Improvement Grant panel Fall of 2014)

Leakey Foundation

American Association of Physical Anthropologists:

Annual Meeting Program Committee member (2012)

Chair of a session at the Annual Meeting (2006, 2007, 2012)

Organizations and committees at Indiana University:

Cognitive Science Program, Graduate Admission Committee: Fall 2015-present

Cognitive Science Program, Anthropology liaison 2012-present

Center for Integrative Study of Animal Behavior, member 2011-present;

Center for Integrative Study of Animal Behavior, Steering Committee member 2013-present

Center for Integrative Study of Animal Behavior, Curriculum Committee member 2015-present

Center for Biological Research Collections, advisory committee member, 2013-present

Interdepartmental Search Committee, 2010-2011

Chair: Student & AI Review & Award Committee, Department of Anthropology, 2012-2013

Student & AI Review & Award Committee, Department of Anthropology, 2009-2010, 2011-2012
 Faculty Salary and Awards Committee, Department of Anthropology, 2011-2012
 Graduate Admissions Committee, Department of Anthropology, 2010-2011
 Graduate Affairs Committee, Department of Anthropology, 2009-2011
 Darwin Club faculty sponsor and organizer, Department of Anthropology, 2010-present

Organizations and committees at James Madison University:

Human Science Minor Coordinator, 2008-2009
 Human Science Minor organizing committee, 2007-2008
 JMU Institutional Animal Care and Use Committee (IACUC), 2008-2009
 Anthropology Program Committee, 2007-2009
 Dept. of Sociology & Anthropology co-representative on the General Education - Cluster Three (Natural World) University Committee, , 2008-2009
 Anthropology Committee on the Madison College Reorganization Proposal, 2008-2009
 3 search committees, 2007-2009
 Lambda Alpha Faculty Representative, 2008-2009
 Anthropology Club faculty co-sponsor, , 2007-2009

Organizations and committees at the University of Michigan-Dearborn:

Library liaison for Anthropology Discipline
 Undergraduate Anthropology Association - faculty advisor
 Anthropology Summer Field School Scholarship Competition Committee
 Student Intern Advisor (Winter 2006, Fall 2006, and Winter 2007)

Organizations and committees at the University of Pennsylvania:

Consulting Scholar, Physical Anthropology Section, University of Pennsylvania Museum of Archaeology and Anthropology, 2005-present
 Anthropology Graduate Group member
 Biological Basis of Behavior Major member
 Institute for Research in Cognitive Science member
 Center for Cognitive Neuroscience member
 Museum Web Development Committee
 Museum Web Advisory Committee
 Anthropology Field Funds Committee
 Anthropology Award Committee (selection of best senior theses)
 Four separate search committees within Anthropology

Professional Memberships

American Association of Physical Anthropologists

References

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