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CURRICULUM VITAE

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EDUCATION

University of Illinois, Urbana-Champaign Anthropology (Biological) Ph.D., 2011
Dissertation title: Evolution of the hominoid vertebral column

Northern Illinois University Anthropology (Physical) M.A., 2006
Thesis title: Anatomical variation in the hand and wrist of African apes: evidence for a single origin of knuckle-walking adaptations.

Kent State University Anthropology, History (with honors) B.A., 2003

Kent State University Arts & Sciences A.A., 2002

CURRENT PROFESSIONAL APPOINTMENTS

09/2011 – present **Assistant Professor of Anthropology**, Center for the Study of Human Origins, Department of Anthropology, New York University.

09/2011 – present **Core Faculty**, New York Consortium in Evolutionary Primatology.

05/2014 – present **Honorary Research Affiliate**, Evolutionary Studies Institute, University of the Witwatersrand.

10/2018 – present **Member**, Center for Skeletal and Craniofacial Biology, College of Dentistry, New York University

PREVIOUS PROFESSIONAL APPOINTMENTS

08/2007 – 08/2011 **Graduate Research Assistant**, Department of Anthropology, University of Illinois, Urbana-Champaign.

08/2006 – 12/2010 **Graduate Teaching Assistant**, Department of Anthropology, University of Illinois, Urbana-Champaign.

08/2004 – 05/2006 **Graduate Teaching Assistant**, Department of Anthropology, Northern Illinois University.

STUDENTS & POST-DOCTORAL RESEARCHERS

Post-doctoral: Gabrielle Russo (2014)

Ph.D.: **Chair:** Monica Avilez, Jeffrey Spear, Jennifer Eyre (all current), Thomas Cody Prang (anticipated defense and graduation in Spring 2019).

Committee: Alexandra DeCasien, Clare Kimock, Emma Kozitsky; Elissa Ludeman, Laura Matthews, (all current); Catalina Villamil (2017), Ashley Bales (2016), Emily Middleton (2015), Steven Worthington (2012); Christopher Yelverton (University of the Witwatersrand), Glen Paton (University of Cape Town) (external; both current).

MA: **Chair:** Isis Dwyer (current); Diana Hsu (2018), Tisa Loewen (2018), Stephanie Reyes (2018), Amy Johnson (2015), Molly Miranker (2014), Jennifer Eyre (2014), Thomas Cody Prang (2014), Catalina Villamil (2013).

Committee: Paul Mensah, Leah Aucher, Abigail Colby, Eva Mann (Hernandez-Janer), Ligia Ceja, Ruth Dorton, Vanessa Graves, Colin Kasl, (current); Helen Alesbury (2018), Madelynne Dudas (2017), Lucia Elgerud (2015), Lauren Petrullo (2015), Amy Beresheim (2013), Maria Darr (2013), Aja Lans (2014), Sandra Winters (2014); Deanna Goldstein (2015; external).

UNDERGRAD: **Honors Chair:** Zelda Grove (2015), Deanna Goldstein (2014), Aviva Novick (2013).

Honors Reader: Sergio Calle (2016), Emma Curtis (2015), Shinan Zhou (2014), Elaine Kozma (2013), Ellis Locke (2012).

Dean's Undergraduate Research Fund: Christina Chopra (2012).

Project mentor: Amanda Lee (2014), Lauren Petrullo (2013).

GRADUATE ADVISORS AND FREQUENT COLLABORATORS

John Polk (PhD advisor, University of Illinois, Urbana-Champaign); Charles Roseman (PhD co-advisor, UIUC); Daniel Gebo (MA advisor, Northern Illinois University); Steven Leigh (PhD committee, University of Colorado, Boulder); Lyle Konigsberg (PhD committee, UIUC); Laura Shackelford (PhD committee, UIUC); Susan Antón (New York University); Markus Bastir (Museo Nacional de Ciencias Naturales); Lee Berger (University of the Witwatersrand); Steven Churchill (Duke University); Daniel García-Martínez (Museo Nacional de Ciencias Naturales); Asier Gómez-Olivencia (University of the Basque Country), Mark Grabowski (Universität Tübingen); John Hawks (University of Wisconsin, Madison); James Higham (New York University); Marc Meyer (Chaffey College); Shahed Nalla (University of the Witwatersrand); Tierra Nalley (Western University of Health Sciences); David Pilbeam (Harvard University); Gabrielle Russo (Stony Brook University); Peter Schmid (Universität Zürich), Milena Shattuck (Hunter College).

PEER-REVIEWED JOURNAL ARTICLES

29. Williams SA, Meyer MR, Nalla S, García-Martínez D, Eyre J, Prang TC, Bastir M, Schmid P, Churchill SE, Berger LR. 2018. The vertebrae, ribs, and sternum of *Australopithecus sediba*. *PaleoAnthropology* 2018, 156-233.
28. Williams SA, DeSilva JM, de Ruiter DJ. 2018. Malapa at 10: Introduction to the special issue on *Australopithecus sediba*. *PaleoAnthropology* 2018, 49-55.
27. DeCasien AR, Thompson N, Shattuck MR, **Williams SA**. 2018. Encephalization and longevity evolved in a correlated fashion in Euarchontoglires but not in other mammals. *Evolution* 72, 2617-2631.
26. VanSickle C, Cofran ZD, García-Martínez D, **Williams SA**, Churchill SE, Berger LR, Hawks J. 2018. *Homo naledi* pelvic remains from the Dinaledi Chamber, South Africa. *Journal of Human Evolution*. 125, 122-136.
25. Spear JK, **Williams SA**. 2018. Scapular breadth is associated with forelimb-dominated suspensory behavior in Atelidae: Comments on Selby and Lovejoy (2017). *American Journal of Physical Anthropology* 167, 194-196.
24. Bastir M, García-Martínez D, **Williams SA**, Recheis W, Torres I, García Río F, Oishi M, Ogiwara N. 2017. 3D geometric morphometrics of thorax variation in Hominoidea. *Journal of Human Evolution* 113, 10-23.
23. Meyer MR, **Williams SA**, Schmid P, Churchill SE, Berger LR. 2017. The cervical spine of *Australopithecus sediba*. *Journal of Human Evolution* 104, 32-49.
22. Hawks J, Elliott M, Schmid P, Churchill SE, de Ruiter DJ, Roberts EM, Hilbert-Wolf H, Garvin HM, **Williams SA**, Delezene LK, Feuerriegel EM, Randolph-Quinney P, Kivell TL, Laird MF, Tawane G, DeSilva JM, Bailey SE, Brophy JK, Meyer MR, Skinner MM, Tocheri MW, VanSickle C, Walker CS, Campbell TL, Kuhn B, Kruger A, Tucker S, Gurtov A, Hlophe N, Hunter R, Morris H, Peixotto B, Ramalepa M, van Rooyen D, Tsikoane M, Boschhoff P, Dirks PHGM, Berger LR. 2017. New fossils of *Homo naledi* from the Lesedi Chamber, South Africa. eLife e24232.
21. DeCasien AR, **Williams SA**, Higham JP. 2017. Primate brain size is predicted by diet but not sociality. *Nature Ecology & Evolution* 1, 0112.
20. Williams SA, García-Martínez D, Bastir M, Meyer MR, Nalla S, Hawks J, Schmid P, Churchill SE, Berger LR. 2017. The vertebrae and ribs of *Homo naledi*. *Journal of Human Evolution*. 104, 136-154.
19. Randolph-Quinney PS, **Williams SA**, Steyn M, Meyer MR, Smilg JS, Churchill SE, Odes E, Augustine T, Tafforeau P, Berger LR. 2016. Primary osteogenic tumor of the spine in *Australopithecus sediba*: earliest evidence for neoplastic disease in the human lineage. *South*

African Journal of Science. 112 (7/8), 1-7.

18. Williams SA, Russo GA. 2016. The fifth element (of Lucy's sacrum): Reply to Machnicki, Reno, and Lovejoy. *American Journal of Physical Anthropology*. 161, 374-378.
17. Antón SC, Taboada H, Middleton ER, Rainwater CW, Taylor AB, Turner TR, Turnquist JE, Weinstein KJ, **Williams SA**. 2016. Morphological variation in *Homo erectus* and the origins of developmental plasticity. *Philosophical Transactions of the Royal Society B*.371, 20150236.
16. Tawane G, García-Martínez D, Eyre J, Bastir M, Berger L, Schmid P, Nalla S, **Williams SA**. 2016. A hominin first rib discovered at the Sterkfontein caves. *South African Journal of Science*. 112 (5/6), 1-7.
15. Williams SA, Middleton ER, Villamil CI, Shattuck MR. 2016. Vertebral numbers and human evolution. *Yearbook of Physical Anthropology* 159 (S61), 19-36.
14. Russo GA, **Williams SA**. 2015. Giant pandas (Carnivora) and living hominoids (Primates) converge on lumbar vertebral adaptations to orthograde trunk posture. *Journal of Human Evolution* 88, 160-179.
13. Berger LR, Hawks J, DeRuiter D, Churchill SE, Schmid P, Delezene L, Kivell T, Garvin HM, **Williams SA**, DeSilva JM, Skinner M, Musiba CM, Cameron N, Holliday TW, Harcourt-Smith W, Ackermann RR, Bastir M, Brophy J, Cofran ZD, Congdon KA, Deane AS, Dembo M, Elliot M, Feuerriegel EM, García-Martínez D, Green DJ, Gurtov A, Kruger A, Laird MF, Marchi D, Meyer MR, Nalla S, Negash EW, Radovicic D, Scott JE, Schroeder L, Throckmorton Z, VanSickle C, Walker CS, Wei P, Zipfel B. 2015. *Homo naledi*, a new species of the genus *Homo* from the Dinaledi Chamber, South Africa. *eLIFE* 4: e09560. [doi:10.7554/eLife.09560](https://doi.org/10.7554/eLife.09560)
12. Meyer MR, **Williams SA**, Smith M, Sawyer G. 2015. Lucy's back: reassessment of fossils associated with the A.L. 288-1 vertebral column. *Journal of Human Evolution* 85, 174-180.
11. Williams SA, Russo GA. 2015. Evolution of the hominoid vertebral column: the long and the short of it. *Evolutionary Anthropology* 24, 15-32.
10. Williams SA, Shattuck MR. 2015. Ecology, longevity, and naked mole-rats: confounding effects of sociality? *Proceedings of the Royal Society B*. 282, 20141664.
9. Russo GA, **Williams SA**. 2015. Lucy (A.L. 288-1) had five sacral vertebrae. *American Journal of Physical Anthropology*. 156, 295-303.
8. Williams SA, Ostrofsky KR, Frater N, Churchill SE, Schmid P, Berger LR. 2013. The vertebral column of *Australopithecus sediba*. *Science* 340, 1232996.
7. Williams SA. 2012. Modern or distinct axial bauplan in early hominins? Comments on Haeusler et al. (2011). *Journal of Human Evolution* 63, 552-556.

6. Williams SA. 2012. Placement of the diaphragmatic vertebra in catarrhines: implications for the evolution of dorsostability in hominoids and bipedalism in hominins. *American Journal of Physical Anthropology* 148, 111-122.
5. Williams SA. 2011. Variation in anthropoid vertebral formulae: implications for homology and homoplasy in hominoid evolution. *Journal of Experimental Zoology B (Molecular and Developmental Evolution)* 318, 134-147.
4. Williams SA. 2010. Morphological integration and the evolution of knuckle-walking. *Journal of Human Evolution* 58, 432-440.
3. Shattuck MR, **Williams SA**. 2010. Arboreality has allowed for the evolution of increased longevity in mammals. *Proceedings of the National Academy of Sciences USA* 107, 4635-4639.
2. Polk JD, **Williams SA**, Peterson JV, Roseman CC, Godfrey LR. 2010. Subchondral bone apparent density and locomotor behavior in extant primates and subfossil lemurs *Hadropithecus* and *Pachylemur*. *International Journal of Primatology* 31, 275-299.
1. Polk JD, **Williams SA**, Peterson JV. 2009. Body size and joint posture in primates. *American Journal of Physical Anthropology* 140, 359-367.

JOURNAL ARTICLES IN REVIEW AND IN PREPARATION

Meyer MR, **Williams SA**. Earliest axial fossils from the genus *Australopithecus*. *Under revision. Journal of Human Evolution*.

Williams SA, Spear JK, Petrullo LA, Goldstein DM, Peterson AL, Lee AB, Kaczmarek E, Shattuck MR. Increased variation in the numerical composition of the vertebral column in mammals adapted to suspension and other antipronograde behaviors. *Under revision. Nature Ecology and Evolution*.

Bastir M, García-Martínez D, Tamayo NT, Barash A, Villa C, Gimeno JAS, Riesco A, Beyer B, Torre M, Ríó FG, Haeusler M, **Williams SA**, Spoor F. Ribcage anatomy in *Homo erectus* suggests step-wise evolution of endurance locomotion. *Submission in progress*

Williams SA, Pilbeam D. Regulatory genes and regionalization of the vertebral column in hominoid primates. *In preparation*

Williams SA, Prang TC, Meyer MR, Eyre J, Schmid P, Churchill SE, Berger LR. The lower back of *Australopithecus sediba* and adaptation to bipedalism in early hominins. *In preparation*

Meyer MR, **Williams SA**. The axial skeletal remains of *Ardipithecus ramidus*. *In preparation*

Bastir M, García-Martínez D, Nalla S, Schmid P, Hawks J, Churchill SE, Berger LR, **Williams SA**. A 3D reconstruction of the thorax of *Homo naledi*. *In preparation*

Williams SA, Meyer MR, Prang TC, Schmid P, Elliott M, Hawks J, Churchill SE, Berger LR. Sexual dimorphism of vertebral body size and wedging in *Homo naledi*. *In preparation*

Prang TC, Ramirez K, Grabowski MW, **Williams SA**. Hand proportions and phalangeal curvature in fossil hominins, with implications for suspensory behavior. *In preparation*

García-Martínez D, Bastir M, Nalla S, Schmid P, Churchill SE, Berger LR, **Williams SA**. Thorax morphology of *Australopithecus sediba*. *In preparation*

Williams SA, Spear, JK, Petrullo LA, Goldstein DM, Peterson AL, Lee AB, Kaczmarek E, Shattuck MR. Evolutionary history of the vertebral column in mammals. *In preparation*

EDITOR-REVIEWED PAPERS, BOOK CHAPTERS, & BOOK REVIEWS

Williams SA, Gomez-Olivencia A. In prep. Evolution of vertebral numbers in hominoids. In Been E, Gomez-Olivencia A, Kramer P. (eds.), *Evolution of the Human Spine*. Springer.

Williams SA, Meyer MR. In review. The australopith vertebral column. In Been E, Gomez-Olivencia A, Kramer P. (eds.), *Evolution of the Human Spine*. Springer.

Meyer MR, **Williams SA**. In review. The spine of early *Homo*. In Been E, Gomez-Olivencia A, Kramer P. (eds.), *Evolution of the Human Spine*. Springer.

Williams SA. 2018. Lead Book Review: Was the last common ancestor aping a chimp or just monkeying around? *Journal of Human Evolution* DOI:10.1016/j.jhevol.2018.04.007.

Williams SA. 2018. *Australopithecus* Group. *Encyclopedia of Evolutionary Psychological Science*. [10.1007/978-3-319-16999-6_3423-1](https://doi.org/10.1007/978-3-319-16999-6_3423-1)

Williams SA. 2015. Earliest Hominins. *McGraw-Hill Yearbook in Science and Technology (2015)*.

Williams SA. 2015 (invited contribution). Review of *Apes and Human Evolution* by R.H. Tuttle (2014). *Current Anthropology* 117, 209-210.

MONOGRAPHS AND THESES

Williams SA. 2012. *Evolution of the Hominoid Vertebral Column: The Long and Short of It*. Lambert Academic Publishing.

Williams SA. 2011. Evolution of the hominoid vertebral column. Ph.D. dissertation, University of Illinois, Urbana-Champaign, IL. <https://www.ideals.illinois.edu/handle/2142/26113>

Williams SA. 2006. Anatomical variation in the hand and wrist of African apes: evidence for a single origin of knuckle-walking adaptations. Master's thesis, Northern Illinois University, Dekalb, IL.

CONTRIBUTED PAPERS & POSTERS

48. Williams SA, Prang TC, Meyer MR, Ostrofsky KR, Nalley KR, García-Martínez D, Bastir M, Schmid P, Churchill SE, Berger LR. Accepted. A nearly complete lower back of *Australopithecus sediba*. *American Journal of Physical Anthropology* (abstract).
47. Meyer MR, **Williams SA**. Accepted. 4.2 Ma *Australopithecus anamensis* axial remains: the oldest australopith vertebrae in the fossil record. *American Journal of Physical Anthropology* (abstract).
46. Williams SA, Meyer MR, Nalley T, Elliott M, Schmid P, Churchill SE, Hawks J, Berger LR. 2018. Sexual dimorphism in the lower back of *Australopithecus sediba* and *Homo naledi*. *PaleoAnthropology* 2018 (publication information is not yet available).
45. Getahun DA, Higham JP, **Williams SA**. 2018. Reevaluation of the craniofacial morphology of *Theropithecus brumpti*: implications for secondary sexual characteristics and reconstruction of its socio-sexual behavior. *American Journal of Physical Anthropology* S66, 97.
44. Meyer MR, **Williams SA**, García-Martínez D, Bastir M. 2018. Toward solving the puzzle of thorax shape variation among early hominins. *American Journal of Physical Anthropology* S66, 176.
43. Spear J, **Williams SA**. 2018. Parallel evolution of suspensory locomotion in Folivora and implications for understanding homoplasy in hominoids. *American Journal of Physical Anthropology* S66, 260.
42. Taboada H, Antón SC, **Williams SA**, Laird MF, Stock MK, Villamil CI, Surrat SEB, Gonzalez-Velez O, Schmitt CA, Dubuc C, Higham J. 2018. Intra-demic morphological variation: using the Cayo Santiago macaques to model plasticity in the fossil record. *American Journal of Physical Anthropology* S66, 269.
41. Williams SA, Prang TC, Grabowski MW, Meyer MR, Schmid P, Churchill SE, Berger LR. 2018. Relative size and scaling of the lumbo-sacral joint in fossil hominins: implications for function and phylogeny. *American Journal of Physical Anthropology* S66, 301.
40. Antón S, Taboada H, Middleton E, Rainwater C, Turner TR, Turnquist JE, Weinstein KJ, **Williams SA**. 2017. Why did *H. erectus* disperse? Tracking variables between fleshed and skeletal individuals to find patterns of plasticity. *American Journal of Physical Anthropology* S64, 102.
39. Bastir M, García-Martínez D, **Williams SA**, Meyer MR, Nalla S, Schmid P, Barash A, Oishi M, Ogihara N, Churchill SE, Hawks J, Berger LR. 2017. Geometric morphometrics of hominoid thoraces and its bearing for reconstructing the ribcage of *H. naledi*. *American Journal of Physical Anthropology* S64, 111-112.

38. Eyre J, **Williams SA**. 2017. A new reconstruction of the Sts 14 *Australopithecus africanus* pelvis. *American Journal of Physical Anthropology* S64, 175.
37. Meyer MR, **Williams SA**. 2017. How did early hominins hold their heads? New evidence on head posture from the australopiths cervical spine. *American Journal of Physical Anthropology* S64, 286-287.
36. Shattuck MR, Petruccio LA, Peterson A, Lee AB, Kaczmarek E, Goldstein DM, **Williams SA**. 2017. Pronogrady, not fast speed specifically, acts as a constraint on vertebral formula in mammals. *American Journal of Physical Anthropology* S64, 357.
35. Torres-Tamayo N, García-Martínez D, **Williams SA**, Eyre J, Hawks J, VanSickle C, Bastir M. 2017. Allometry, sexual dimorphism in human ossa coxae, and its relevance for understanding human torso variation. *American Journal of Physical Anthropology* S64, 383.
34. Williams SA, Pilbeam D. 2017. Total numbers of vertebrae clarify the ancestral vertebral formula of African apes and humans. *American Journal of Physical Anthropology* S64, 410-411.
33. Yim A-D, **Williams SA**, Disotell TR. 2017. Adaptive evolution of TCIRG1, a gene involved in bone development and remodeling, is associated with the evolution of femoral cross-sectional geometry in primates. *American Journal of Physical Anthropology* S64, 417.
32. Williams SA, García-Martínez D, Meyer MR, Nalla S, Schmid P, Hawks J, Churchill SE, Berger LR, Bastir M. 2016. The axial skeleton and scaling of the trunk in *Homo naledi* (invited podium presentation). *American Journal of Physical Anthropology* S62, 335.
31. Grabowski M, **Williams SA**. 2016. Birth since the LCA: Reconstructing the twisted evolution of human parturition (podium presentation). *American Journal of Physical Anthropology* S62, 159.
30. DeCasien AR, Higham JP, **Williams SA**. 2016. Hard-tissue markers of face flanges in *Pongo* (plenary poster). *American Journal of Physical Anthropology* S62, 128.
29. Lopez R, Kozma E, **Williams SA**. 2016. Scapular morphology and its implications for the study of locomotor behaviors in primates and carnivorans (plenary poster). *American Journal of Physical Anthropology* S62, 201.
28. VanSickle C, Cofran ZD, García-Martínez D, **Williams SA**, Churchill SE, Berger LR, Hawks J. 2016. Primitive pelvic features in a new species of *Homo* (invited podium presentation). *American Journal of Physical Anthropology* S62, 321.
27. Throckmorton Z, Harcourt-Smith WEH, Congdon K, Zipfel B, DeSilva J, Prang TC, **Williams SA**, Meyer MR, García-Martínez D, Marchi D, Walker C, VanSickle C, Hawks J, Berger LR. 2016. *Homo naledi* strides again: preliminary reconstructions of an extinct hominin's gait (invited podium presentation). *American Journal of Physical Anthropology* S62, 314.

26. Bastir M, García-Martínez D, **Williams SA**, Nalla S, Eyre J, Oishi M, Ogihara N, Churchill SE, Berger L, Schmid P. 2016. Preliminary findings of 3D analyses of the costal remains of *Australopithecus sediba* (plenary poster). *PaleoAnthropology* 2016, A2-A3 (DOI:10.4207/PA.2016.ABS14)
25. Williams SA, Meyer MR, Smith M, Sawyer GJ. 2015. A reassessment of vertebrae associated with the *Australopithecus afarensis* partial skeleton, A.L. 288-1 (“Lucy”) (plenary poster). *PaleoAnthropology* 2015, A37 (DOI: 10.4207/PA.2015.ABS13).
24. Petersdorf M, Higham JP, **Williams SA**. 2015. What can the skeleton tell us about flanging? Hard-tissue markers of cheek flanges in *Mandrillus* (plenary poster). *American Journal of Physical Anthropology* S60, 252-253.
23. Meyer MR, **Williams SA**, Smith M, Sawyer GJ. 2015. Lucy plus one: Intermingling of a second individual in the spinal column of A.L. 288-1 (plenary poster). *American Journal of Physical Anthropology* S60, 226.
22. Polk JD, **Williams SA**, Grabowski MW, Roseman CC. 2015. Evolvability and autonomy of limb proportions in *Homo* and other hominoids (plenary poster). *American Journal of Physical Anthropology* S60, 256.
21. Lee AB, Konigsberg L, **Williams SA**. 2015. Similarities in the primate vertebral formulae and implications for phylogeny and locomotor behavior (plenary poster). *American Journal of Physical Anthropology* S60, 201.
20. Polk JD, **Williams SA**, Grabowski MW, Fortney C, Roseman CC. 2014. Integration and the evolution of suspensory behavior in primates (podium presentation). XXV International Primatology Society Congress (abstract #653).
19. Williams SA, Higham JP. 2014. Sexual selection and female mate choice in human evolution (invited podium presentation). *American Journal of Physical Anthropology* S58, 273.
18. Ostrofsky KR, **Williams SA**, Churchill SE, Berger LR, Richmond BR. 2014 Australopith lumbar vertebral morphology: insights from *Australopithecus sediba* (podium presentation). *American Journal of Physical Anthropology* S58, 202.
17. Grabowski MW, **Williams SA**, O’Connor CH, Lawson HA, Polk JD, Cheverud JM, Roseman CC. 2014. Genetic variation in pelvic sexual dimorphism and its implications for human evolution (invited poster). *American Journal of Physical Anthropology* S58, 129.
16. Petruccio LA, Goldstein DM, Lee AB, **Williams SA**. 2014. Suspension, brachiation, and the evolution of short torsos in atelines and hominoids (plenary poster). *American Journal of Physical Anthropology* S58, 207.
15. Williams SA, Churchill SE, Ostrofsky KR, Schmid P, Frater N, Berger LR. 2013. The number of vertebrae in early hominins: insights from *Australopithecus sediba* (podium presentation). *American Journal of Physical Anthropology* S56, 292.

14. Shattuck MR, Thompson N, **Williams SA**. 2013. The evolution of brain size and longevity in mammals (plenary poster). *American Journal of Physical Anthropology* S56, 252.
13. Petruccio LA, Shattuck MR, **Williams SA**. 2013. Extensive convergence between giant panda and hominoid vertebral formulae (plenary poster). *American Journal of Physical Anthropology* S56, 221.
12. Williams SA. 2012. Variation in hominoid vertebral formulae: implications for the evolution of the hominin vertebral column (podium presentation). *American Journal of Physical Anthropology* S54, 304.
11. Williams SA. 2011. Evolutionary history of the hominoid vertebral formula (podium presentation). *American Journal of Physical Anthropology* S52, 257.
10. Roseman CC, **Williams SA**, Grabowski MW, O'Connor C, Cheverud J, Polk JD. 2011. A genotype- phenotype map of a mammalian pelvis using a mouse model (invited podium presentation). *American Journal of Physical Anthropology* S52, 312-313.
9. Williams SA. 2010. Morphological integration and the knuckle-walking complex: implications for the evolution of knuckle-walking and bipedalism (podium presentation). *American Journal of Physical Anthropology* S50, 244.
8. Williams SA. 2010. Numerical composition of the vertebral column: implications for hominoid evolution (podium presentation). Midwest Primate Interest Group, Chicago, IL.
7. Williams SA. 2009. Modularity in the hominoid vertebral column: implications for the evolution of orthogrady (plenary). *American Journal of Physical Anthropology* S48: 426.
6. Shattuck MR, **Williams SA**. 2009. The influence of arboreality on longevity in mammals: a test of the evolutionary theory of aging (poster). *American Journal of Physical Anthropology* S48: 366.
5. Williams SA, Grabowski MW, Polk JD, Roseman CC. 2008. Phenotypic integration and evolution in the African ape third manual ray (plenary poster). *American Journal of Physical Anthropology* S46: 223.
4. Grabowski MW, **Williams SA**, Roseman CC, Polk JD. 2008. Phenotypic integration in the macaque postcranial skeleton (plenary poster). *American Journal of Physical Anthropology* S46: 106.
3. Polk JD, Peterson J, **Williams SA**. 2008. Sexual dimorphism, body size, and joint posture in primates (plenary poster). *American Journal of Physical Anthropology* S46: 173.
2. Williams SA, Shattuck MR. 2008. Arboreality and longevity in mammals (podium presentation). Midwest Primate Interest Group, Notre Dame, IN.

1. Williams SA. 2006. Variation in the African ape third manual ray: implications for the evolution of knuckle-walking? (podium). Midwest Primate Interest Group, Urbana, IL.

GRANTS

- 2017 **National Science Foundation**—Biological Anthropology Senior Research—Reconstructing reproductive lifehistories: Integrating genetics, morphology, behavior, and demography. With J. Higham (Lead PI), S. Antón. (\$337,204 awarded).
- 2017 **National Science Foundation**—Doctoral Dissertation Research Improvement Grant—The role of thermoregulation in shaping pelvic morphology. PI with J. Eyre (\$16,490 awarded).
- 2016 **Leakey Foundation** – Research Grant – Lumbar lordosis in modern humans and fossil hominins. Leakey Foundation resubmission 33517. PI (\$23,491 awarded).
- 2016 **Leakey Foundation**—Emergency Research Grant—Measuring soft-tissue variation in a large sample of free-ranging rhesus macaques: an opportunity to ground-truth skeletal markers. With J. Higham (Lead PI), S. Antón, C. Dubuc. (\$9,100 awarded).
- 2016 **National Science Foundation**—Biological Anthropology RAPID—Preserving the endangered Cayo Santiago skeletal collection for studies linking genetics, behavior, and morphology. With S. Antón (Lead PI), J. Higham. (\$52,873 awarded).
- 2016 **Spanish Ministry for Economy and Competitiveness (MINECO)**—EXCELLENCE projects and projects CHALLENGES—3D morphometric growth simulations of the trunk skeleton in *Australopithecus*, early *Homo* and extant primates and its functional implications for human evolution (TORSO). With M. Bastir (Lead PI), S. Gimeno, P. Schmid, F. Spoor. (180,000€awarded).
- 2014 **Leakey Foundation** – Research Grant – Male-male competition, sexual dimorphism and alternate reproductive strategies in a non-human primate: a morphological approach. With C. Dubuc (Lead PI), J. Higham, M. Shattuck. (\$17,700 awarded).
- 2014 **University Research Challenge Fund, New York University**. Continued Excavation and Analysis of Hominin Fossils from Rising Star Cave. PI (\$16,000 awarded).
- 2009 **National Science Foundation** – Doctoral Dissertation Improvement Grant – Morphological Integration and Evolution of the Hominoid Vertebral Column. With J. Polk (PI) (\$11,235 awarded).
- 2009 **Beckman Institute for Science and Technology** – Cognitive Science/Artificial Intelligence Award, University of Illinois. (Two awards, \$2,500 each).
- 2008 **University of Illinois** – Graduate College Dissertation Travel Grant. (\$480 awarded).

HONORS AND AWARDS

- 2018 Sigma Xi Scientific Research Honor Society Nomination for Membership
- 2016 New York University College of Arts and Sciences Golden Dozen Teaching Award
- 2016 Manchester High School Distinguished Alumni Award: Early Career Achievement
- 2015 New York University Goddard Junior Faculty Fellowship
- 2014 Elected Participant, Rising Star Workshop, University of the Witwatersrand
- 2013 Elected Participant, Rising Star Cave Excavation, University of the Witwatersrand
- 2011 University of Illinois Demetri B. Shimkin Award for Outstanding Research Paper in Anthropology
- 2010-2011
William Miller Fellowship for Dissertation Research
- 2010 University of Illinois Edward M. Bruner Award for Academic Excellence and Promise in Anthropology
- 2010 University of Illinois List of Teachers Ranked as Excellent (Spring semester)
- 2009 University of Illinois List of Teachers Ranked as Excellent (Fall semester)
- 2008 University of Illinois List of Teachers Ranked as Excellent (Spring semester)
- 2008-2011
Conference Travel Funding, Department of Anthropology, University of Illinois (4 awards)
- 2007 University of Illinois List of Teachers Ranked as Excellent (Spring semester)
- 2006 University of Illinois List of Teachers Ranked as Excellent (Fall semester)
- 2006 University of Illinois List of Teachers Ranked as Excellent (Spring semester)
- 2006 Summer Research Travel Award, Department of Anthropology, University of Illinois
- 2006-2011
Stipend and waiver of graduate tuition, University of Illinois
- 2004-2006
Stipend and waiver of graduate tuition, Northern Illinois University

PROFESSIONAL SERVICE

- 2017-2018 Guest Editor, *PaleoAnthropology* special issue on *Australopithecus sediba*
- 2015-2016 National Science Foundation Graduate Research Fellowship Program Panelist
- 2016 Symposium organizer, “In Search of the Last Common Ancestor: Perspectives on the Ancestral Morphotype of Hominins.” American Association of Physical Anthropologists Meeting, 2016
- 2014-present Associate Editor, *Journal of Human Evolution*
- 2012-present Contributor, multiple entries: *Encyclopedia of Human Evolution* (Ed. B. Wood, 2013 and online).
- 2012-2013 American Association of Physical Anthropologists Program Committee
- 2010-present **Reviewer of manuscripts in professional journals:**
- American Journal of Physical Anthropology
 - Anatomical Record
 - Evolutionary Anthropology
 - HOMO: Journal of Comparative Human Biology
 - Journal of the American Aging Association
 - Journal of Experimental Biology
 - Journal of Human Evolution
 - Journal of Mammalogy
 - Mammal Review
 - Neurological Research
 - PaleoAnthropology
 - PeerJ
 - Proceedings of the National Academy of Sciences USA
 - Proceedings of the Royal Society B
 - Public Library of Science (PLoS) ONE
 - Royal Society Open Science
 - Zoological Journal of the Linnean Society
- Grant reviews:**
- National Science Foundation Senior Research (Biological Anthropology; Sedimentary Geology and Paleobiology)
 - National Science Foundation Graduate Research Fellowship Program
 - European Research Council
 - Leakey Foundation
 - National Geographic Society
- Book and edited volume reviews:**
- Cambridge Univ. Press, Univ. of California Press, Springer Academic

NEW YORK UNIVERSITY SERVICE

2018	44 th Annual College of Arts and Sciences (CAS) Undergraduate Research Conference poster judge
2017	43 rd Annual CAS Undergraduate Research Conference poster judge
2016-present	Faculty of Arts and Sciences (FAS) Academic Standards Committee
2015-2016	Mentor and discussant, FAS Diversity Summer Student Research Conference
2014	40 th Annual CAS Undergraduate Research Conference poster judge
2014-present	Core member, NYU FAS Diversity Initiative Faculty Working Group
2013-present	CAS Freshman Dialogue Committee

NYU DEPARTMENT OF ANTHROPOLOGY SERVICE

2019	Director, MA program in Human Skeletal Biology
2018-present	Biological Anthropology and Archaeology PhD Admissions Committee
2017-2018	Co-director, MA program in Human Skeletal Biology
2017-2018	Co-organizer and mentor, Anthropology in Color Symposium
2017	Albert Borgman Prize for Senior Honors Thesis Department Committee
2016-present	Department of Anthropology Diversity Initiatives Committee
2015-2018	Department Website and Media Committee
2014	Albert Borgman Prize for Senior Honors Thesis Department Committee
2014-2015	Faculty liaison for Anthropology Undergraduate Student Association
2012-present	Co-chair, Center for the Study of Human Origins Colloquium Committee
2011-present	Human Skeletal Biology MA Admissions Committee

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

2018-present	Society for the Study of Evolution
2014-present	Centre for Excellence in PalaeoSciences
2013-present	Paleoanthropology Society
2012-present	Society for Vertebrate Paleontology
2011-present	Center for the Study of Human Origins
2011-present	New York Consortium for Evolutionary Primatology
2010-2011	Member and co-founder, Evolutionary Morphology Reading Group
2009-present	American Association of Physical Anthropologists
2007-2008	President, Biological Anthropology Journal Club, University of Illinois

INVITED TALKS AND LECTURES

“New fossil discoveries in the Cradle of Humankind, South Africa” Invited public lecture, Evolutionary Studies Series, Binghamton University, SUNY, October 23, 2017. (<https://www.binghamton.edu/evos/seminar-series/2017fall/scottwilliams.html>)

“The strange case of *Homo naledi*” Invited public lecture, New York Academy of Sciences (Anthropology section), Wenner-Gren Foundation, January 25, 2016.

“*Homo naledi* and recent discoveries in human evolution” Invited public lecture, New York Atheists Brunch and Lecture Series, The Press Box Restaurant, February 14, 2016.

“New Hominin Fossils from the Cradle of Humankind, South Africa” Invited public lecture, Department of Anthropology, Northern Illinois University, Spring 2015.

“Bipedal Adaptations in Early Hominins: insights from the evolutionary development of the vertebral column” Invited talk, Department of Anthropology, Northern Illinois Univ., Spring 2015.

“Bipedal adaptations in early hominins: insights from the axial skeleton” Invited talk, Department of Anthropology, Washington University, St. Louis, Spring 2015.

“Bipedal adaptations in early hominins: insights from the vertebral column” Invited talk, Department of Anthropology, Stony Brook University, Spring 2014.

“A comparative framework for understanding hominin vertebral column morphology” Invited talk, Department of Anthropology, Yale University, Fall 2013.

“Evolutionary history of the bipedal backbone” Invited talk, Department of Anthropology, Hunter College, CUNY, Fall 2013.

“The evolution of hominin bipedalism” Invited talk, NYU Evening Evolution Group, Center for Genomics and Systems Biology, New York University, Spring, 2012.

“The evolution of orthogrady and bipedalism: perspectives from the vertebral column” Invited talk, New York Consortium for Evolutionary Primatology, CUNY Graduate Center, Fall, 2011.

“Morphological integration and evolution of the primate postcranium” Invited talk, Center for the Study of Human Origins, Department of Anthropology, New York University, Spring, 2011.

“The evolution of morphological integration in primates” Invited talk, Lifespan Health Research Center, Boonshoft School of Medicine, Wright State University, Fall, 2010.

COURSES TAUGHT AT NYU

ANTH-UA2. Human Evolution (90-160 students) (Sp13, Summer 2016, F16, Sp17, S18)

ANTH-GA 1520. Interpreting the Human Skeleton: Morphological & Statistical Methods (20) (Sp18, Sp 19)

ANTH-G14.3391. Integrative Paleoanthropology 1 (20) (F13, F15, F17)

ANTH-GA 3396. Quantitative Methods (20) (Fall 2016)

ANTH-G14.1520. Interpreting Human Skeletal Morphology (20) (Spring 2012, Sp13, Sp14, Sp16)

ANTH-UA 512. Seminar: Evolutionary Biology of Human Behavior (20) (F14)

ANTH-UA52. Evolution and Biology of Human Behavior (40) (Sp12)

ANTH-UA 511. Problems and Perspectives in Human Evolution (20) (F11)

ANTH -V14.09050. Honors Research I (25) (F13)

ANTH-UA 951. Honors Research II (25) (Sp17)

CORE-UA 305. Human Origins (120) (Sp14)

POPULAR AND SCIENTIFIC COVERAGE OF RESEARCH

- 2019 *Malapa at 10: Introduction to the special issue on Australopithecus sediba; The vertebrae, ribs, and sternum of Australopithecus sediba.* CNN.com, Telegraph, Inverse, ScienceDaily, EurekAlert!, iflscience.com
- 2017 *New fossil remains of Homo naledi from the Lesedi Chamber, South Africa.* Online coverage: National Geographic, Discover Magazine, New Scientist, WashingtonPost.com, Newsweek.com, theAtlantic.com, theGuardian.com, NBCNews.com, CBSNews.com, etc.
- 2017 *Primate brain size is predicted by diet but not sociality.* Print coverage: Nature. Radio coverage: BBC Radio 4. Online coverage: Science, Scientific American, BBC, NPR, New Scientist, The Guardian, Smithsonian Magazine, The Telegraph, Elmundo, etc.
- 2016 *Osteogenic tumor in Australopithecus sediba: earliest hominin evidence for neoplastic disease.* [Press release](#): University of the Witwatersrand. Online coverage: National Geographic, New Scientist, DailyMail.co.uk, Sci-News.com, NatureWorldNews.com, etc.
- 2015 *Giant pandas (Carnivora: Ailuropoda melanoleuca) and living hominoids converge on lumbar vertebral adaptations to orthograde trunk posture.* BBC.com.
- 2015 *Homo naledi, a new species of the genus Homo from the Dinaledi Chamber, South Africa.* 60 Minutes (upcoming), CBS News (live interview), National Geographic, NOVA ('Dawn of Humanity'), New York Times front page, other major newspapers, magazines, and broad online coverage. [Press release](#): University of the Witwatersrand.
- 2015 *Lucy's back: Reassessment of fossils associated with the A.L. 288-1 vertebral column.* Online coverage: Elsevier press release, New Scientist, Daily News, Tech Times.
- 2015 *Ecology, longevity, and naked mole-rats: confounding effects of sociality?* Online coverage: Motherboard (VICE), Smithsonian Magazine, Phys.org.
- 2013 *The vertebral column of Australopithecus sediba:* Press release, New York University. Online coverage: National Geographic News, AAAS.org, Nature World News, The Scientist Magazine, Sci-News, LiveScience, Phys.org, InNews, Why Evolution is True.
- 2010 *Arboreality has allowed for the evolution of increased longevity in mammals:* Press release: University of Illinois, Urbana-Champaign. Online coverage: New Scientist, Science Daily, DNAIndia, ScienceBlogs—Not Exactly Rocket Science.

OUTREACH

2017-present

American Association for the Advancement of Science SciLine faculty consultant. On call for media inquiries related to scientific discoveries in the area of human evolution.

- 2016-present
Applied Research Innovations in Science and Engineering STEM education summer mentorship program. Mentor 10th and 11th grade students on research projects.
- 2015 NOVA special: Dawn of Humanity. Brief appearances at Rising Star Cave and in the Phillip V. Tobias Fossil Primate and Hominid Laboratory at the University of the Witwatersrand.
- 2015 CBS News Online. Interview regarding the discovery of a new species, *Homo naledi*.
- 2015 Meet the Scientist program, Sackler Educational Lab, American Museum of Natural History. Teaching and interacting with public museum attendees about human fossils.
- 2014 Applied Research Innovations in Science and Engineering STEM education program 2014 Colloquium panel judge. Provided feedback to students and committee.
- 2014 Huffington Post coverage of the Bill Nye-Ken Ham evolution vs. creationism debate, “Is creation a viable model of origins?” Live blogging on the event with science editors (http://www.huffingtonpost.com/2014/02/04/bill-nye-debate-ken-ham-creationism-livestream-live-updates_n_4717896.html)

REFERENCES

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