

# Dr. Steven Worthington

## Director of Data Science Services

INSTITUTE FOR QUANTITATIVE SOCIAL SCIENCE  
HARVARD UNIVERSITY  
1737 Cambridge Street  
Cambridge, MA 02138

☎ (917) 680-2608  
✉ [sworthington@iq.harvard.edu](mailto:sworthington@iq.harvard.edu)

🏠 [scholar.harvard.edu/sworthington](https://scholar.harvard.edu/sworthington)  
🌐 [linkedin.com/in/worthingtonsteven](https://linkedin.com/in/worthingtonsteven)  
🔄 [github.com/stevenworthington](https://github.com/stevenworthington)  
🔍 [scholar.google.com](https://scholar.google.com)  
🆔 ORCID

## Areas of specialization

- Bayesian inference (Stan, pyMC3)
- Frequentist inference (statmodels)
- Deep learning (tensorflow)
- Machine learning (sci-kit learn, caret)
- Programming (R / Python)

## Professional appointments

- 2021–present **Harvard University**  
Director of Data Science Services & Lead Data Scientist  
*Institute for Quantitative Social Science*
- 2018–present **Harvard University**  
Manager of Data Science Services & Senior Data Scientist  
*Institute for Quantitative Social Science*
- 2015–2018 **Harvard University**  
Senior Data Scientist & Research Associate  
*Institute for Quantitative Social Science*
- 2012–2015 **Harvard University**  
Data Scientist & Postdoctoral Fellow  
ADVISOR: Prof. Gary King  
*Institute for Quantitative Social Science*
- 2011–2012 **Harvard University**  
Statistics & Programming Consultant  
*Institute for Quantitative Social Science*
- 2003–2010 **New York University**  
Teaching Fellow  
*Department of Anthropology*
- 2000–2003 **University of Durham**  
Teaching Fellow  
*Department of Anthropology*

## Education

2021–2024



**A.L.M.** (GPA: 4.0)

Data Science

DEAN'S LIST ACADEMIC ACHIEVEMENT AWARD

*Harvard University, U.S.A.*

2021–2022



**Graduate Certificate** (GPA: 4.0)

Data Science

*Harvard University, U.S.A.*

2008–2012



**Ph.D.**

Biological Anthropology

ADVISOR: Prof. Terry Harrison

*New York University, U.S.A.*

2003–2008



**M.Phil.** (GPA: 3.8)

Biological Anthropology

ADVISOR: Prof. Terry Harrison

*New York University, U.S.A.*

2002–2002



**CELTA**

Education

*University of Durham, U.K.*

2000–2002



**M.Sc. (research)**

Biological Anthropology

ADVISOR: Dr. Todd C. Rae

*University of Durham, U.K.*

1997–2000



**B.A. (honors)** (2:1)

Anthropology & Archaeology

*University of Durham, U.K.*

## Analytical skills

### Statistics & machine learning

Bayesian inference (Multilevel models, Stan, brms, PyMC3).

Frequentist inference (GLMs, Panel data, Time series, Bootstrap, Non-parametrics).

Deep learning (CNN, RNN, LSTM, MLP, Keras / Tensorflow, PyTorch).

Supervised learning (Random forest, Gradient boosting, CART, SVM, KNN, LDA).

Unsupervised learning (Hierarchical clustering, Kmeans, DBScan, PCA).

### Programming & software

Scientific computing (Python, R, Bash shell, SQL, SAS, SPSS).

Markup languages (HTML, CSS, XML, JSON, Markdown).

Social network analysis (Gephi).

Morphometric Analysis (MorphoJ, Morphologika, Morphueus).

Phylogenetic Analysis (Mesquite, MacClade, PAUP, PHYLIP, TNT, CAIC).

Revision control (Git, GitHub).

## Practical experience

{ [GitHub](#) }

2011–present

### Institute for Quantitative Social Science

Consultant and collaborator on over 2000 research projects involving a wide array of machine learning, deep learning, Bayesian and frequentist-based inference, in both the R and Python programming languages.

## Publications

### Citations

Metric	<i>n</i>
Total citations	2501
<i>h</i> index	19
i10 index	23

### Working papers

3. Sena, C.M.T., Kraft, T.S., **Worthington, S.**, Kraus, V.B., Huebner, J.L., Lim, Y.A.L., Huat, T.B., Tam, K.L., Kivell, T.L., Holowka, N.B., Fadzil, K.S, Nicholas, C., Sayed, I.M., Venkataraman, V.V., Lea, A.J., & Wallace, I.J. (in prep.) Influence of high physical activity levels on bone turnover and bone density among the Indigenous peoples of Peninsular Malaysia. [????](#) [\[DOI\]](#) [\[PDF\]](#)
2. Wallace, I.J., Lucero, M.L., **Worthington, S.**, Ayroles, J.F., Chow, S.K.W., Fadzil, K.S, Felson, D.T., Gurven, M., Hainline, B.W., Haugen, I.K., Holowka, N.B., Huebner, J.L., John, E., Kivell, T.L., Neogi, T., Nicholas, C., Kahumba, J.C., Kinyua, P., Kraus, V.B., Lim, Y.A.L., Lopurudoi, A., Lotukoi, F., Martins, D., Miano, C., Muhoya, B. Mukoma, B., Ng, K.S., Njeru, S.N., Sayed, I.M., Sena, C.M.T., Sibson, B.E., Tam, K.L., Huat, T.B., Watowich, M.M., Venkataraman, V.V., Kraft, T.S., & Lea, A.J. (in prep.) Risk of chronic low back pain among two traditionally small-scale subsistence societies. *Annals of the Rheumatic Diseases* [\[DOI\]](#) [\[PDF\]](#)
1. Suhay, E., Hochschild, J., & **Worthington, S.** (in prep.) Americans' Partisan Perspectives on Scientific Authority and Consensus. *Science* [\[DOI\]](#) [\[PDF\]](#)

### Papers in peer-review

1. Holowka, N.B., O'Neill, M.C., Bhandal, V., Lam, O., Apolito, Z.M., Massimi, C.A., Palmisano, K.G., **Worthington, S.**, Demes, B., & Thompson, N.E., (submitted) Heel-strike mechanics reveal evolutionary tradeoffs in hominin bipedalism. *Proceedings of the National Academy of Sciences of the United States of America* [\[DOI\]](#) [\[PDF\]](#)

## Published journal articles (peer-reviewed)

36. Weld, J., Day, R.T., Alizadeh, F., Blossom, J., Bailey, D., **Worthington, S.**, Lui, J., Ward, V.L., Teele, S., Newburger, J., Thiagarajan, R., Bucholz, E., & Moynihan, K.M. (2026) Geospatial Access to Pediatric Cardiac and Cardiac-surgical Services by Neighborhood-level Determinants of Health. *Journal of the American Heart Association* [DOI] [PDF]
35. Cohen, B., **Worthington, S.**, Sweeney, A., Concy, L., Daniel, O., & Kayser, G. (2026) Predictors of Water Point Sustainability and Water Quality in Gulu, Uganda. *Journal of Water Resources Planning and Management* [DOI] [PDF]
34. Wallace, I.J., Felson, D.T., Kraus, V.B., Neogi, T., Haugen, I.K., Huebner, J.L., Sena, C.M.T., Kivell, T.L., Holowka, N.B., **Worthington, S.**, Lim, Y.A.L., Venkataraman, V.V., Kraft, T.S., & Lea, A.J. (2026) Dampened inflammation and reduced risk of osteoarthritis among non-industrial societies. *Osteoarthritis & Cartilage* 34(1): 18–27. [DOI] [PDF]
33. Moynihan, K.M., Day, R.T., Alizadeh, F., Weld, J., Barbaro, R., Blossom, J., Bailey, D., **Worthington, S.**, Lui, J., Ward, V., Bucholz, E., & Thiagarajan, R. (2025) Access to Pediatric Extracorporeal Membrane Oxygenation according to Neighborhood-level Determinants of Health. *Intensive Care Medicine - Paediatric and Neonatal* 3: 21. [DOI] [PDF]
32. Bucholz, E., Day, R.T., Khazanchi, R., Alizadeh, F., Blossom, J., Bailey, D., **Worthington, S.**, Lui, J., Thiagarajan, R., Ward, V., & Moynihan, K.M. (2025) Geospatial Accessibility to Pediatric Resources according to Child Opportunity, Race/Ethnic Composition and Urbanicity. *Academic Pediatrics* 25(5): 102817. [DOI] [PDF]
31. Lauer, C., Holowka, N.B., **Worthington, S.**, Kraft, T.S., & Wallace, I.J. (2025) Foot arch height, arch stiffness, and intrinsic muscle size are not strongly associated with daily physical activity levels in a cross-sectional study of adults in the United States. *The Anatomical Record* 308(12): 3259–3270. [DOI] [PDF]
30. Wrangham, R.W., & **Worthington, S.** (2025) Apparent stasis of endocranial volume in two chimpanzee subspecies. *American Journal of Biological Anthropology* 186(1): 1–18. [DOI] [PDF]
29. Greifer, N., **Worthington, S.**, Iacus, S., & King, G. (2024) carify: Simulation-Based Inference for Regression Models. *R Journal* 16(2): 154–174. [DOI] [PDF]
28. Vasilijic, S., Atai, N.A., Hyakusoku, H., **Worthington, S.**, Ren, Y., Sagers, J.E., Sahin, M.I., Fujita, T., Landegger, L.D., Lewis, R., Welling, D.B., & Stankovic, K.M. (2023) Identification of immune-related candidate biomarkers in plasma of patients with sporadic vestibular schwannoma. *Science Advances* 9: eadf7295. [DOI] [PDF]
27. Lee, K.M.N., Rushovich, T., Gompers, A., Boulicault, M., **Worthington, S.**, Lockhart, J.W., & Richardson, S.S. (2023) A gender hypothesis of sex disparities in adverse drug events. *Social Science & Medicine* 339: 116385. [DOI] [PDF]
26. Lieberman, D.E., **Worthington, S.**, Schell, L.D., Parkent, C.M., Devinsky, O., & Carmody, R.N. (2023) Reply to RJ Klement. *American Journal of Clinical Nutrition* 118(6): 1241–1242. [DOI] [PDF]

25. Rushovich, T., Gompers, A., Lockhart, J.W., Omidiram, I., **Worthington, S.**, Richardson, S.S., & Lee, K.M.N. (2023) Adverse drug events by sex after adjusting for baseline rates of drug use. *JAMA Network Open* 6(8): e2329074. [\[DOI\]](#) [\[PDF\]](#)
24. Lieberman, D.E., **Worthington, S.\***, Schell, L.D., Parkent, C.M., Devinsky, O., & Carmody, R.N. (2023) Comparing measured dietary variation within and between tropical hunter-gatherer groups to the Paleo Diet. *American Journal of Clinical Nutrition* 118(3): 549–560. [\[DOI\]](#) [\[PDF\]](#) \* **co-first author**
23. Wallace, I.J., Felson, D.T., **Worthington, S.**, & Lieberman, D.E. (2022) Response to: ‘Is non-industrial society undergoing an energy balance transition predisposed to accumulate abdominal adipose tissue and susceptible to knee osteoarthritis?’ by Yu et al. *Annals of the Rheumatic Diseases* 81(4): 1–2. [\[DOI\]](#) [\[PDF\]](#)
22. Bailey, K.B., Horacek, D., **Worthington, S.**, & Schmitz, M. (2022) Professors prioritize increasing female retention in academic physics over advisees’ interests. *Frontiers in Sociology* 6: 1–9. [\[DOI\]](#) [\[PDF\]](#)
21. Holowka, N.B., Wallace, I.J., Mathiessen, A., Ojiambo, R.M., Okutoyi, P., **Worthington, S.**, & Lieberman, D.E. (2021) Urbanization and Knee Cartilage Growth Among Children and Adolescents in Western Kenya. *ACR Open Rheumatology* 3(11): 765–770. [\[DOI\]](#) [\[PDF\]](#)
20. Rodman, A.M., Bustamante, C.M.V., Dennison, M.J., Flournoy, J.C., Coppersmith, D.D.L., Nook, E.C., **Worthington, S.**, Mair, P., & McLaughlin, K.A. (2021) A year in the social life of a teenager: Fluctuations in stress, social communication, and anxiety and depression. *Clinical Psychological Science* 9(5): 791–809. [\[DOI\]](#) [\[PDF\]](#)
19. Yingying, L., Forsyth, A., **Worthington, S.** (2021) Built environment and self-rated health: comparing young, middle-aged, and older people in Chengdu, China. *Health Environments Research & Design Journal* 14(3): 229–246. [\[DOI\]](#) [\[PDF\]](#)
18. Kistner, T.M., Zink, K.D., **Worthington, S.**, & Lieberman, D.E. (2021) Geometric morphometric investigation of cranial morphological change during domestication of *Vulpes vulpes*. *Scientific Reports* 11: 2582. [\[DOI\]](#) [\[PDF\]](#)
17. Rodman, A., Powers, K., Insel, C., Kastman, E., Kabotyanski, K., Stark, A., **Worthington, S.** & Somerville, L. (2021) How adolescents and adults translate value to action: Age-related shifts in strategic physical effort exertion for monetary rewards. *Journal of Experimental Psychology: General* 150(1): 103–113. [\[DOI\]](#) [\[PDF\]](#)
16. Park, D.S., Willis C.G., Zhenxiang, X. Kartesz, J.T., Davis, C.C. & **Worthington, S.\*** (2020) Machine learning predicts large scale declines in native plant phylogenetic diversity. *New Phytologist* 227(5): 1544–1556. [\[DOI\]](#) [\[PDF\]](#) \* **co-first author**
15. Shave, R.E., Lieberman, D.E., Drane, A.L., Brown, M.G., Batterham, A.M., **Worthington, S.**, Atencia, R., Feltrer, Y., Neary, J., Weiner, R.B., Wasfy, M.M., & Baggish, A.L. (2019) Selection of endurance capabilities and the trade-off between pressure and volume in the evolution of the human heart. *Proceedings of the National Academy of Sciences of the United States of America* 116(40): 19905–19910. [\[DOI\]](#) [\[PDF\]](#)

14. Wallace, I.J., Felson, D.T., **Worthington, S.**, Duryea, J., Clancy, M., Aliabadi, P., Eick, G.N., Snodgrass, J.J., Hannan, M.T., Baggish, A.L., & Lieberman, D.E. (2019) Knee osteoarthritis risk in non-industrial societies undergoing an energy balance transition: evidence from the indigenous Tarahumara of Mexico. *Annals of the Rheumatic Diseases* 78(12): 1–6. [\[DOI\]](#) [\[PDF\]](#)
13. Cunningham, A.J., **Worthington, S.** Venkataraman, V., & Wrangham, R.W. (2019) Do modern hunter-gatherers live in marginal habitats? *Journal of Archaeological Sciences: Reports* 25: 584–599 [\[DOI\]](#) [\[PDF\]](#)
12. Bailey, K.A., Horacek, D., **Worthington, S.**, Nanthakumar, A., Preston, S., & Ilie C.C. (2019) STEM/non-STEM divide structures undergraduate beliefs about gender and talent in academia. *Frontiers in Sociology* 4: 1-26. [\[DOI\]](#) [\[PDF\]](#)
11. Park, D.S., **Worthington, S.**, & Zhenxiang X. (2018) Taxon sampling effects on the quantification and comparison of community phylogenetic diversity. *Molecular Ecology* 27(5): 1296–1308. [\[DOI\]](#) [\[PDF\]](#)
10. **Worthington, S.** (2017) Selection of character coding method is not phylogenetically neutral: a test case using hominoids. *Folia Primatologica* 88(5): 385–400. [\[DOI\]](#) [\[PDF\]](#)
9. Wallace, I. J., **Worthington, S.\***, Felson, D.T., Jurmain, R.D., Wren, K.T., Maijanen, H., Woods, R.J., & Lieberman, D.E. (2017) Knee osteoarthritis has doubled in prevalence since the mid-20<sup>th</sup> century. *Proceedings of the National Academy of Sciences of the United States of America* 114(35): 9332–9336. [\[DOI\]](#) [\[PDF\]](#) \* **co-first author**
8. Miller, C.L., Taylor, M.S., Qadan, M., Deshpande, V., **Worthington, S.**, Smalley, R., Collura, C., Ryan, D.P., Allen, J.N., Blaszkowsky, L.S., Clark, J.W., Murphy, J.E., Parikh, A.R., Berger, D., Tanabe, K.K., Lillemoe, K.D., & Ferrone, C.R. (2017) Prognostic significance of surgical margin size after neoadjuvant FOLFOX and/or FOLFIRI for colorectal liver metastases. *Journal of Gastrointestinal Surgery* 21(11): 1831–1840. [\[DOI\]](#) [\[PDF\]](#)
7. Sagers, J.E., Landegger, L.D., **Worthington, S.**, Nadol Jr., J.B., & Stankovic, K.M. (2017) Human cochlear histopathology reflects clinical signatures of primary neural degeneration. *Scientific Reports* 7(4884): 1–10. [\[DOI\]](#) [\[PDF\]](#)
6. Wrangham, R.W., **Worthington, S.\***, Bernard, A.B., Koops, K., Machanda, Z.P., & Muller, M.N. (2017) Response to: Chimpanzee culture extends beyond matrilineal family units. *Current Biology* 27: R590–R591. [\[DOI\]](#) [\[PDF\]](#) \* **co-first author**
5. Wrangham, R.W., Koops, K., Machanda, Z.P., **Worthington, S.**, Bernard, A.B., Brazeau, N.F., Donovan, R., Rosen, J., Wilke, C., Otali, E., & Muller, M. N. (2016) Distribution of a chimpanzee social custom is explained by matrilineal relationship rather than conformity. *Current Biology* 26(22): 3033–3037. [\[DOI\]](#) [\[PDF\]](#)
4. Carter, K.E. & **Worthington, S.\*** (2016) The evolution of anthropoid molar proportions. *BMC Evolutionary Biology* 16: 110. [\[DOI\]](#) [\[PDF\]](#) \* **co-first author**
3. Carter, K.E. & **Worthington, S.\*** (2016) Predictors of third molar impaction: a systematic review and meta-analysis. *Journal of Dental Research* 95(3): 267–276. [\[DOI\]](#) [\[PDF\]](#) \* **co-first author**

2. Carter, K.E. & **Worthington, S.\*** (2015) Morphologic and demographic predictors of third molar agenesis: a systematic review and meta-analysis. *Journal of Dental Research* 94(7): 886–894. [\[DOI\]](#) [\[PDF\]](#) \* **co-first author**
1. Carter, K.E., **Worthington, S.\***, & Smith, T.M. (2014) News and views: non-metric dental traits and hominin phylogeny. *Journal of Human Evolution* 69: 123–128. [\[DOI\]](#) [\[PDF\]](#) \* **co-first author**

#### Published conference papers (peer-reviewed)

14. Lucero, M.L., Watowich, M., **Worthington, S.**, Echwa, J., Kahumbu, J., Kinyua, P., Lopurudoi, A., Lotukoi, F., Mwai, C., Muhoya, B., Mukoma, B., Gurven, M.D., Martins, D., Ayroles, J.F., Lea, A., & Wallace, I.J. (2025) Chronic musculoskeletal pain among the Turkana of northern Kenya. *American Journal of Biological Anthropology* [\[DOI\]](#) [\[PDF\]](#)
13. Wrangham, R. & **Worthington, S.** (2024) Endocranial volume in eastern chimpanzees (*Pan troglodytes schweinfurthii*) and western chimpanzees (*P. t. verus*). *American Journal of Biological Anthropology* 183(S77): 199. [\[DOI\]](#) [\[PDF\]](#)
12. Moynihan, K.M., Alizadeh, F., Day, T., Blossom, J., Bailey, D., **Worthington, S.**, Lui, J., Ward, V., McManus, M., Thiagarajan, R., & Hegland, T. (2024) Distribution of Pediatric intensive care units according to social drivers of health. *Critical Care Medicine* 52(1): S26. [\[DOI\]](#) [\[PDF\]](#)
11. Wallace, I. J., Felson, D.T., **Worthington, S.**, Duryea, J., Clancy, M., Aliabadi, P., Eick, G.N., Snodgrass, J., Baggish, A.L., & Lieberman, D.E. (2020) Knee osteoarthritis susceptibility among non-industrial societies undergoing rapid lifestyle changes. *American Journal of Physical Anthropology* 171: 299. [\[DOI\]](#) [\[PDF\]](#)
10. Wallace, I. J., **Worthington, S.\***, Felson, D.T., Jurmain, R.D., Wren, K.T., Maijanen, H., Woods, R.J., & Lieberman, D.E. (2017) Osteoarthritis as an evolutionary mismatch disease. *American Journal of Physical Anthropology* 162: 400. [\[DOI\]](#) [\[PDF\]](#) \* **equal contributor**
9. Tang, N., Jeffery, N., Graham, P., **Worthington, S.**, Kato, A., Sirianni, J., Lieberman, D., Tafforeau, P., & Smith, T.M. (2014) The ontogeny of human and macaque prenatal brain and tooth growth. *American Journal of Physical Anthropology* Supplement 58: 251–252. [\[DOI\]](#) [\[PDF\]](#)
8. Carter, K.E., **Worthington, S.\***, & Smith, T.M. (2013) The evolution of third molar agenesis in humans. *American Journal of Physical Anthropology* Supplement 56: 95. [\[DOI\]](#) [\[PDF\]](#) \* **equal contributor**
7. **Worthington, S.** (2011) Phylogenetic signals in the hominoid carpus. *American Journal of Physical Anthropology* Supplement 52: 314–315. [\[DOI\]](#) [\[PDF\]](#)
6. **Worthington, S.** (2010) Character winnowing: a new character selection protocol based on phylogenetic signal. *Society of Vertebrate Paleontology* 190A–191A. [\[DOI\]](#) [\[PDF\]](#)
5. **Worthington, S.** (2010) Ranking morphological characters by phylogenetic signal: an approach using null models. *American Journal of Physical Anthropology* Supplement 50: 247. [\[DOI\]](#) [\[PDF\]](#)

4. **Worthington, S.** (2010) Endo- and ectocranial covariation in *Pongo*: implications for fossil hominoid cranial integration. *PaleoAnthropology* 2010: A38–39. [\[DOI\]](#) [\[PDF\]](#)
3. Carter, K.E. & **Worthington, S.\*** (2010) Mixed signals in the dentition: assessing the contribution of phylogeny, taxonomy and allometry in determining molar shape. *PaleoAnthropology* 2010: A7. [\[DOI\]](#) [\[PDF\]](#) \* **equal contributor**
2. **Worthington, S.** (2004) Character analysis of hominoid trunk and forelimb morphology: synapomorphy or homoplasy? *American Journal of Physical Anthropology Supplement* 38: 211. [\[DOI\]](#) [\[PDF\]](#)
1. **Worthington, S.** (2003) The extent of homoplasy in the trunk and forelimb of the Hominoidea. *Primate Eye* 79: 7. [\[DOI\]](#) [\[PDF\]](#)

### Dissertations & theses

4. Brown, R., McNeil, S., Milliman, J., Wan, E., & **Worthington, S.** (2024) Sports Predictive Analytics and Modeling. M.L.A. Capstone Thesis. Harvard University. [\[DOI\]](#) [\[PDF\]](#)
3. **Worthington, S.** (2012) New Approaches to Late Miocene Hominoid Systematics: Ranking Morphological characters by Phylogenetic Signal. Ph.D. Dissertation. CSHO, New York University. [\[DOI\]](#) [\[PDF\]](#)
2. **Worthington, S.** (2002) The Extent of Homoplasy in the Trunk and Forelimb of the Hominoidea. M.Sc. thesis. University of Durham. [\[DOI\]](#) [\[PDF\]](#)
1. **Worthington, S.** (2000) A Technological and Typological Analysis of the Lithic Artifacts from Foxhall Road, Ipswich. B.A. thesis. University of Durham. [\[DOI\]](#) [\[PDF\]](#)

### Editorials

1. **Worthington, S.** & Read, C. (2003) Primate evolution and adaptation. *Evolutionary Anthropology* 12(4): 164. [\[DOI\]](#) [\[PDF\]](#)

### Software

1. Greifer, N., **Worthington, S.**, Iacus, S., & King, G. (2023) clarify: Simulation-Based Inference for Regression Models. R package version 0.2.0. [\[DOI\]](#) [\[PDF\]](#)

### Press

- 2019 [What apes can teach us about our heart health, \*The New York Times\*](#)
- 2018 [The New Rub on Knee Pain, \*Harvard Magazine\*](#)
- 2017 [Knee osteoarthritis prevalence, 139 news outlets, 159 tweets, 35 Facebook pages, 10 blogs](#)
- 2017 [Can Exercise Prevent Knee Osteoarthritis?, \*Journal of the American Medical Association \(JAMA\)\*](#)
- 2017 [Aging and weight cannot explain drastic rise in knee arthritis since since 1950, \*Newsweek\*](#)
- 2017 [Knee arthritis in Americans has doubled since 1940, \*Science\*](#)

- 2016 [Maternal inheritance in chimpanzees](#), *Wall Street Journal*  
 2015 [Wisdom teeth impaction prevalence](#), *National Elf Service*

## Communications & presentations

- 2024 American Association of Physical Anthropologists, *Los Angeles*, March 2024.  
 2020 American Association of Physical Anthropologists, *Los Angeles*, April 2020.  
 2017 American Association of Physical Anthropologists, *New Orleans*, April 2017.  
 2014 American Association of Physical Anthropologists, *St. Louis*, April 2014.  
 2013 American Association of Physical Anthropologists, *Knoxville*, April 2013.  
 2012 Department of Biology, invited lecture, *Yale University*, March 2012.  
 2011 American Association of Physical Anthropologists, *Minneapolis*, March 2011.  
 2011 Department of Geosciences & Geography, invited lecture, *University of Helsinki*, February 2011.  
 2010 Society of Vertebrate Paleontologists, *Pittsburgh*, October 2010.  
 2010 American Association of Physical Anthropologists, *Albuquerque*, April 2010.  
 2010 Paleanthropology Society, *St. Louis*, April 2010.  
 2009 New York Consortium in Evolutionary Primatology, *New York*, May 2009.  
 2009 Darwin's Legacy, *American Museum of Natural History*, *New York*, April 2009.  
 2008 Morse Academic Plan, invited lecture, *New York University*, March 2008.  
 2007 Center for the Study of Human Origins, *New York University*, September 2007.  
 2006 Department of Anthropology, invited lecture, *New York University*, October 2006.  
 2004 American Association of Physical Anthropologists, *Tampa*, April, 2004.  
 2003 New York Consortium in Evolutionary Primatology, *New York*, December 2003.  
 2002 Primate Society of Great Britain. *Royal Zoological Society*, *London*, December 2002.

## Grants, honors & awards

- 2003–2017 **Total funds awarded: \$203,130**  
 2009,2011,2016 The Linnean Society of London & The Systematics Association  
 \$1,300, \$1,425, \$1,150 [Systematics Research Fund](#)  
 2010–2011 New York University, Graduate School of Arts & Science  
 \$23,000 [James Arthur Fellowship](#)  
 2010–2011 American Philosophical Society  
 \$1,700 [Lewis and Clark Fund for Exploration and Field Research](#)  
 2010 Paleanthropology Society  
 \$250 [Presentation Grant](#)  
 2009–2010 L.S.B. Leakey Foundation  
 \$9,835 [General Research Grant](#)  
 2008–2009 National Science Foundation  
 \$14,970 [Doctoral Dissertation Research Improvement Grant](#)  
 2008 National Science Foundation  
 \$5,000 [IGERT Summer Research Fellowship](#)

- 2007 New York University, Department of Anthropology  
\$500 *Summer Research Fellowship*
- 2004 New York Consortium in Evolutionary Primatology  
\$500 *IGERT Presentation Grant*
- 2004 New York University, Graduate School of Arts & Science  
\$500 *Dean's Supplementary Presentation Grant*
- 2003–2009 New York University, Graduate School of Arts & Science  
\$23,000 (per annum) *Henry M. McCracken Doctoral Fellowship*

## Service to the profession

### Referee & judge

Peer reviewer (27):

- 2021–present [Scientific Reports](#) (2).
- 2021–present [Health Environments Research & Design Journal](#) (1).
- 2019–present [Archives of Oral Biology](#) (5).
- 2017–present [JDR Clinical & Translational Research](#) (6).
- 2017–present [Journal of Dental Research](#) (11).
- 2009–present [Journal of Human Evolution](#) (2).

### Academic search committees:

- 2025 Senior data scientist (HDSI, Harvard University), member.
- 2023 Social science researcher (IQSS, Harvard University), member.
- 2023 Data science specialist (IQSS, Harvard University), chair.
- 2022 Data science project management specialist (IQSS, Harvard University), chair.
- 2021 Data science specialist (IQSS, Harvard University), chair.
- 2019 Data science specialist (IQSS, Harvard University), chair.
- 2018 Data science specialist (IQSS, Harvard University), chair.
- 2017 Data visualization specialist (Lamont Library, Harvard University), member.
- 2016 Post-doctoral researcher (Government dept., Harvard University), member.
- 2015 Mathematics preceptor (Government dept., Harvard University), member.
- 2014 Data science specialist (IQSS, Harvard University), member.
- 2010 Assistant professor (Anthropology dept., New York University), chair.

### Software UI/UX tester:

- 2017–present [Consilience](#) (IQSS, Harvard University).
- 2017 [Research Data Management](#) (HURT, Harvard University).
- 2016 [Dataverse](#) (IQSS, Harvard University).

### Advisory & consulting

Advisor:

- 2011–present [Harvard University](#) — *Statistics and research advisor to over 20 faculty, postdoctoral fellows, and graduate students*

*from several departments.*

2008–2010 [New York University](#) — *Statistics and research advisor to 3 undergraduate biological anthropology students.*

Consultant:

2018–present [Consilience](#) (Harvard University) — *Statistical and visualization consultant to the team developing Consilience — a text analysis application.*

2015–present [Data Science Services](#) (Harvard University) — *Statistical and programming consultant to over 1000 faculty, post-doctoral fellows, and graduate students.*

2011–2015 Research Technology Consulting (Harvard University) — *Statistical and technological consultant to over 700 faculty, postdoctoral fellows, and graduate students.*

## Organization of scientific events

2021 [DataFest 2021](#)  
Harvard University, Cambridge MA  
19–22 January (Chair of organizing committee).

2020 [DataFest 2020](#)  
Harvard University, Cambridge MA  
21–22 January (Chair of organizing committee).

2019 [DataFest 2019](#)  
Harvard University, Cambridge MA  
22–23 January (Chair of organizing committee).

2018–2019 [IQSS Technical Talks](#)  
Harvard University, Cambridge MA  
Year-round (Chair of organizing committee).

2018 [DataFest 2018](#)  
Harvard University, Cambridge MA  
17–18 January (Co-organizer).

2017 [DataFest 2017](#)  
Harvard University, Cambridge MA  
17–18 January (Co-organizer and panel participant).

2009 [Darwin's Legacy: Early Human Evolution in Africa](#)  
American Museum of Natural History, New York, NY  
18–19 April (Co-organizer and presenter).

2009 Anthropology Undergraduate Research Association (AURA) conference  
New York University, New York, NY  
17 March (Co-organizer and programme creator).

2007 [Evolutionary Anthropology at the Interface](#)  
New York University, New York, NY  
8–9 October (Co-organizer & photographer).

2004 [Miocene Hominoid Postcrania](#)  
New York University, New York, NY  
22–24 May (Co-organizer and workshop participant).

## Participation in scientific consortia

- 2012–2018 [ComputeFest](#)  
Harvard University, Cambridge MA  
3<sup>rd</sup> week in January (Assistant for statistical programming workshops).
- 2012–2017 [IT Summit](#)  
Harvard University, Cambridge MA  
1<sup>st</sup> week in June (Invited participant).
- 2017 [Privacy Tools for Data Sharing](#)  
Harvard University, Cambridge MA  
11 December (Invited participant).
- 2016–2017 [Dataverse Community Meeting](#)  
Harvard University, Cambridge MA  
June/July (Invited participant).
- 2013 [Connected Insight Summit](#)  
Charles Hotel, Cambridge MA  
9 October (Invited participant in social network methods conference).
- 2010 [AnthroTree](#)  
University of Amherst, Amherst MA  
20 June (Invited participant in comparative methods workshop).

## Teaching

- 2020–2021 Instructor for R series of software workshops, *Harvard University, USA*.
- 2019–2020 Teaching assistant for R, Python, and Stata series of software workshops, *Harvard University, USA*.
- 2012 Instructor for Introduction to SAS software workshop, *Harvard University, USA*.
- 2008 Instructor for Primates in Motion, *New York University, USA*.
- 2008,2010 Teaching assistant for Human Origins, *New York University, USA*.
- 2007 Instructor for Human Evolution, *New York University, USA*.
- 2006–2009 Team leader for Primate Cadaver Processing Lab, *New York University, USA*.
- 2006–2007 Instructor for Primate Skeletal Casting Lab, *New York University, USA*.
- 2004,2009 Teaching assistant for Human Evolution, *New York University, USA*.
- 2002 Teaching assistant for Teaching English as a Foreign Language, *University of Durham, UK*.
- 2000–2003 Teaching assistant for Human Origins & Diversity, *University of Durham, UK*.

## Other affiliations

- 2008–2017 [The Systematics Association](#).
- 2008–2012 [Society of Vertebrate Paleontologists](#).
- 2008–2012 [Society of Systematic Biologists](#).
- 2008–2012 [The Willi Hennig Society](#).
- 2008–2012 [Paleoanthropology Society](#).
- 2003–2012 [American Museum of Natural History](#).
- 2003–2012 [New York Consortium in Evolutionary Primatology](#).
- 2003–2012 [Center for the Study of Human Origins](#).
- 2003–2012 [American Association of Physical Anthropologists](#).

- 2000–2003 [Primate Society of Great Britain.](#)  
2000–2003 [Evolutionary Anthropology Research Group.](#)

## Biological fieldwork

### Paleontological

- 2009 [National Museums of Kenya, Nairobi, Kenya.](#)  
2009 Hungarian National Museum, *Budapest, Hungary.*  
2009 Geological Institute of Hungary, *Budapest, Hungary.*  
2009 Naturhistorisches Museum, *Vienna, Austria.*  
2009 Naturhistorisches Museum, *Basel, Switzerland.*  
2009 Peabody Museum, *Harvard University, USA.*  
2004 [Eyasi Plateau Paleontological Research Project, Laetoli, Tanzania](#), PI: PROF. TERRY HARRISON.

### Neontological

- 2001–2010 [American Museum of Natural History, New York, USA.](#)  
2001–2010 [National Museum of Natural History, Washington D.C., USA.](#)  
2008–2010 [Powell-Cotton Museum, Kent, UK.](#)  
2008–2009 [Natural History Museum, London, UK.](#)  
2008–2009 Musée Royal de l’Afrique Centrale, *Tervuren, Belgium.*  
2008–2009 Museum of Comparative Zoology, *Harvard University, USA.*  
2008 Museum für Naturkunde at Humboldt University, *Berlin, Germany.*

## References

**Daniel E. Lieberman**  
Department of Human  
Evolutionary Biology  
Harvard University  
11 Divinity Avenue  
Cambridge, MA 02138 USA  
☎ (617) 495-5479  
✉ [danlieb@fas.harvard.edu](mailto:danlieb@fas.harvard.edu)

Department chair of [Human Evolutionary Biology](#) &  
Edwin M. Lerner II Professor of Biological Sciences at  
Harvard University.

**Stefano Iacus**  
Institute for Quantitative  
Social Science  
Harvard University  
1737 Cambridge Street, K329  
Cambridge, MA 02138 USA  
☎ (617) 496-1274  
✉ [siacus@iq.harvard.edu](mailto:siacus@iq.harvard.edu)

[Director of Data Science and Product Research](#) at The  
Institute for [Quantitative Social Science](#).

**Len Wisniewski**  
Institute for Quantitative  
Social Science  
Harvard University  
1737 Cambridge Street, K316  
Cambridge, MA 02138 USA  
☎ (617) 496-7971  
✉ [lwisniewski@iq.harvard.edu](mailto:lwisniewski@iq.harvard.edu)

[Director of Engineering](#) at The Institute for [Quantita-](#)  
[tive Social Science](#).

**Gary King**  
Department of Government  
Harvard University  
1737 Cambridge Street  
Cambridge, MA 02138 USA  
☎ (617) 500-7570  
✉ [king@harvard.edu](mailto:king@harvard.edu)

Albert J. Weatherhead III University Professor at [Har-](#)  
[vard University](#) and Director of the [Institute for Quan-](#)  
[titative Social Science](#) at Harvard University. Post-  
doctoral advisor (2012-2015).