

Curriculum Vitae

Dietrich William Stout

6 August 2021

Contact Information

Dietrich Stout
Department of Anthropology
Emory University
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Atlanta, GA 30322
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<https://scholarblogs.emory.edu/stoutlab/>
404-712-1828

Current Positions

Associate Professor, *Department of Anthropology, Emory University*
Associate Director, *Emory University Center for Mind, Brain, and Culture*
Program Director, *Graduate Certificate in Mind, Brain, and Culture*

Professional Experience

Previous Positions:

Lecturer (equiv. US Asst. Prof.), 2005-2009
University College London
London, UK

Visiting Assistant Professor of Anthropology, 2004 -2005
The George Washington University
Washington D.C.

Research Associate, 2004 – 2006
Stone Age Institute and
Center for Research into the Anthropological Foundations of Technology (CRAFT)
Indiana University, Bloomington

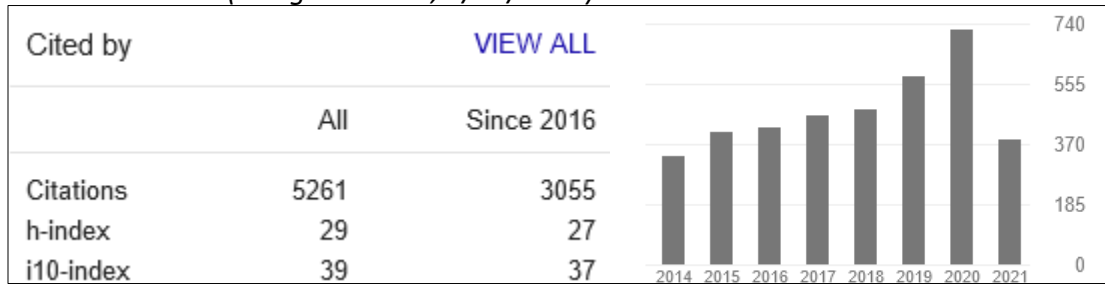
Education

Degrees:

Indiana University, Bloomington, IN	Major: Paleoanthropology Minors: Psychology, Bioanthropology	Ph.D., 2003
James Madison University, Harrisonburg, VA	Major: Anthropology	B.Sc., 1994

Research

Citation Metrics (Google Scholar, 7/21/2021)



Publications

*postdoctoral co-author, **student co-author (status at time of work)

For publications since 2015, my contributions are listed using the 14 item the [CRediT](#) taxonomy.

In Preparation (Additional analyses required for re-submission)

Stout, D., Li, Z., Khreisheh, N.*, Pargeter, J.*, Bryant, K.*, Pan, J., Shafti, A., Faisal, A. Shared neurocomputational foundations of language and tool making in peri-Sylvian cortex. *CRediT: Conceptualization, Data curation, Formal analysis, Funding acquisition, Investigation, Methodology, Project administration, Writing – original draft*

In Revision

Bayani, K. Y. T.*, Natraj, N.*, Khreisheh, N.*, Pargeter, J.*, **Stout, D.**, Wheaton, L.A. Perceptuomotor relationships during paleolithic stone toolmaking learning: intersections of observation and practice during technological skill development. *Communications Biology*. *CRediT: Conceptualization, Funding acquisition, Methodology, Project administration, Writing – original draft*

Peer-Reviewed Journals

Stout, D. (2021). The Cognitive Science of Technology. *Trends in Cognitive Science* <https://doi.org/10.1016/j.tics.2021.07.005>
CRediT: Conceptualization, Writing – original draft

Stout, D., Chaminade, T., Apel, J., Shafti, A., & Faisal, A. A. (2021). The measurement, evolution, and neural representation of action grammars of human behavior. *Scientific Reports*, 11(1), 1-13. *CRediT: Conceptualization, Data curation, Funding acquisition, Investigation, Methodology, Project administration, Writing – original draft*

Pargeter, J.*, Khreisheh, N.*, John Shea, **Stout, D.** (2020) Knowledge vs. Know-how? Dissecting the foundations of stone knapping skill. *Journal of Human Evolution* 145, 102807. *CRediT: Conceptualization, Data curation, Formal analysis, Funding acquisition, Investigation, Methodology, Project administration, Writing – original draft*

Semaw, S., M. J. Rogers, S. W. Simpson, N. E. Levin, J. Quade, N. Dunbar, W. C. McIntosh, I. Cáceres, G. E. Stinchcomb, R. L. Holloway, F. H. Brown, R. F. Butler, **D. Stout**, and M. Everett (2020). Co-occurrence of Acheulian and Oldowan artifacts with *Homo erectus* cranial fossils from Gona, Afar, Ethiopia. *Science Advances*, 6(10), eaaw4694. doi:10.1126/sciadv.aaw4694

CRedit: Investigation

Pargeter, J.*, Khreisheh, N.*, **Stout, D.** (2019) Understanding stone tool-making skill acquisition: experimental methods and evolutionary implications. *Journal of Human Evolution*. 133, 146-166.

Stout, D., Rogers, M.J., Jaeggi, A.V., Semaw, S. (2019) Archaeology and the origins of human cumulative culture: a case study from the earliest Oldowan at Gona, Ethiopia. *Current Anthropology*.60(3).

CRedit: Conceptualization, Data curation, Formal analysis, Investigation, Methodology, Writing – original draft

Stout, D. (2018). Archaeology and the evolutionary neuroscience of language: The technological pedagogy hypothesis. *Interaction Studies*, 19(1-2), 256-271

CRedit: Writing – original draft

Arbib, M. A., F. Aboitiz, J. M. Burkart, M. Corballis, G. Coudé, E. Hecht, K. Liebal, M. Myowa-Yamakoshi, J. Pustejovsky, S. Putt, F. Rossano, A. E. Russon, P. T. Schoenemann, U. Seifert, K. Semendeferi, C. Sinha, **D. Stout**, V. Volterra, S. Waciewicz and B. Wilson (2018). "The comparative neuroprimatology 2018 (CNP-2018) road map for research on How the Brain Got Language." *Interaction Studies* 19(1-2): 370-387.

CRedit: Writing – review & editing

Stout, D., Hecht, E.E. (2017) The evolutionary neuroscience of cumulative culture. *Proceedings of the National Academy of Sciences (US)*. 114(30), 7861-7868.

CRedit: Writing – original draft

Stout, D., & Khreisheh, N.* (2015). Skill Learning and Human Brain Evolution: An Experimental Approach. *Cambridge Archaeological Journal*, 25(04), 867-875.

CRedit: Conceptualization, Data curation, Formal analysis, Funding acquisition, Investigation, Methodology, Project administration, Writing – original draft

Stout, D., Hecht, E.E.*, Khreisheh, N.*, Bradley, B., Chaminade, T. (2015) Cognitive demands of Lower Paleolithic toolmaking. *PLoS ONE*. 10(4): e0121804. doi:10.1371/journal.pone.0121804

CRedit: Conceptualization, Data curation, Formal analysis, Funding acquisition, Investigation, Methodology, Project administration, Writing – original draft

Hecht, E.E.*, Gutman, D.A., Bradley, B.A., Preuss, T.M., **Stout, D.** (2015) Virtual dissection and comparative connectivity of the superior longitudinal fasciculus in chimpanzees and humans. *NeuroImage*. 108, 124-137.

CRedit: Conceptualization, Writing – original draft

Hecht E.E.*, Gutman D.A., Khreisheh N., Taylor S.V., Kilner J., Faisal A.A., Bradley B.A., Chaminade T., **Stout, D.** (2015) Acquisition of Paleolithic toolmaking abilities involves structural remodeling to inferior frontoparietal regions. *Brain Structure and Function*: 1-17.

CRedit: Conceptualization, Data curation, Formal analysis, Funding acquisition, Investigation, Methodology, Project administration, Writing – original draft

Stout, D., Apel, J., Commander, J.***, Roberts, M. (2014) Late Acheulean technology and cognition at Boxgrove, UK. *Journal of Archaeological Science*.41: 576-590.

Hecht E.E.*, Muphy L.E., Gutman D.A., Votaw, J.R., Schuster, D.M., Preuss, T.M., Orban, G.A., **Stout, D.**, Parr, L.A. (2013) Differences in Neural Activation for Object-Directed Grasping in Chimpanzees and Humans. *The Journal of Neuroscience*. 33(35): 14117-14134.

- Stout, D.**, Chaminade, T. (2012) Stone tools, language and the brain in human evolution. *Philosophical Transactions of the Royal Society of London B*, 367, 75-87.
- Kristian J. Carlson, **Dietrich Stout**, Tea Jashashvili, Darryl J. de Ruiter, Paul Tafforeau, Keely Carlson, Lee R. Berger. (2011) The endocast of MH 1, *Australopithecus sediba*. *Science*. 333(6048): 1402-1407
- Stout, D.**, Passingham, R., Frith, C., Apel, J., Chaminade, T. (2011) Technology, expertise, and social cognition in human evolution. *European Journal of Neuroscience*. 33: 1328-1338
- Stout, D.** (2011) Stone toolmaking and the evolution of human culture and cognition. *Philosophical Transactions of the Royal Society of London B*, 366, 1050-1059
- Faisal, A., **Stout, D.**, Apel, J, Bradley, B. (2010) The manipulative complexity of Lower Paleolithic stone tool-making. *PLoS ONE* 5(11): e13718. doi:10.1371/journal.pone.0013718 (cited by 46)
- Stout, D.**, Semaw, S., Rogers, M., Cauche, D. (2010) Technological variation in the earliest Oldowan from Gona, Afar, Ethiopia. *Journal of Human Evolution*. 58(6):474-91.
- Stout, D.** (2010) The evolution of cognitive control. *Topics in Cognitive Science*. 2(4): 614-630.
- Stout, D.** & Chaminade, T. (2009) Making tools and making sense: complex intentional behaviour in human evolution. *Cambridge Archaeological Journal*. 19(1) 85-96.
- Stout, D.** (2008) Technology and human brain evolution. *General Anthropology*.15(2): 1-5.
- Stout, D.**, Toth, N., Schick, K. D. & Chaminade, T. (2008) Neural correlates of Early Stone Age tool-making: technology, language and cognition in human evolution. *Philosophical Transactions of the Royal Society of London B*, 363:1939-1949
- Stout, D.**, Chaminade, T. (2007) The evolutionary neuroscience of tool making. *Neuropsychologia*. 45, 1091-1100.
- Stout, D.**, Quade, J., Semaw, S., Rogers, M., Levin, N. (2005) Raw material selectivity of the earliest stone toolmakers at Gona, Afar, Ethiopia. *Journal of Human Evolution* 48 (4): 365-380.
- Quade, J., Levin, N., Semaw, S., **Stout, D.**, Renne, P., Rogers, M., Simpson, S. (2004) Paleoenvironments of the earliest stone toolmakers, Gona, Ethiopia. *Geological Society of America Bulletin* 116 (11/12): 1529-1544.
- Semaw, S., Rogers, M., Quade, J., Renne, P., Butler, R., Dominguez-Rodrigo, M., **Stout, D.**, Hart, W., Pickering, T., Simpson, S. (2003) 2.6-Million-year-old stone tools and associated bones from OGS-6 and OGS-7, Gona, Afar, Ethiopia. *Journal of Human Evolution* 45 (2): 169-177.
- Stout, D.** (2002) Skill and cognition in stone tool production: An ethnographic case study from Irian Jaya. *Current Anthropology* 45 (3): 693-722.
- Stout, D.**, Toth, N., Schick, K., Stout, J.C., Hutchins, G. (2000) Stone tool-making and brain activation: Positron Emission Tomography (PET) studies. *Journal of Archaeological Science* 27: 1215-1223

Other Periodicals:

Stout, D. (2016) Tales of a Stone Age neuroscientist. *Scientific American* 314 (4): 28-35. (reprinted in a special collector's edition, *The Story of Us*, Autumn 2016).

CRedit: Writing – original draft

Peer-Reviewed Edited Volumes:

Stout, D. (2019) *Homo artifex*: an extended evolutionary perspective on the origins of the human mind, brain and culture. In *Squeezing Minds from Stones: Cognitive Archaeology and the Evolution of the Human Mind* (ed. Frederick L. Coolidge and Karenleigh A. Overmann) Oxford University Press.

CRedit: Writing – original draft

Semaw S, Rogers MJ, Cáceres I, **Stout D**, Leiss AC. 2018. The Early Acheulean~ 1.6–1.2 Ma from Gona, Ethiopia: Issues related to the Emergence of the Acheulean in Africa. In *The Emergence of the Acheulean in East Africa and Beyond*, pp. 115-28: Springer

CRedit: Writing – original draft

Stout, D. (2018) Human brain evolution: history or science? In *Rethinking Human Evolution* (ed. Jeffrey Schwartz) Konrad Lorenz Institute, Vienna Series in Theoretical Biology: MIT Press. pp. 297-318.

CRedit: Writing – original draft

Stout, D., Hecht, E.E.* (2015) Neuroarchaeology. In *Human Paleoneurology* (ed. Emiliano Bruner) Springer Series in Bioinformatics, vol. 3, N. Kasabov, series ed. pp. 145-175. New York: Springer

CRedit: Writing – original draft

Hecht, E.E.*, **Stout, D.** (2015) Techniques for studying brain structure and function. In *Human Paleoneurology* (ed. Emiliano Bruner) Springer Series in Bioinformatics, vol. 3, N. Kasabov, series ed. pp. 209-224. New York: Springer

CRedit: Writing – review & editing

Stout, D. (2013) The neuroscience of technology. In *Cultural Evolution: society, technology, language and religion* (ed. Peter J. Richerson and Morten H. Christiansen) Strüngmann Forum Reports, vol. 11, J. Lupp, series ed. pp. 157-174. Cambridge, MA: MIT Press

Mesoudi, A., Laland, K., Boyd, R., Buchanan, B., Flynn, E., McCauley, R., Renn, J., Reyes-Garcia, V., Shennan, S., **Stout, D.**, Tennie, C. (2013) The cultural evolution of technology and science. In *Cultural Evolution: society, technology, language and religion* (ed. Peter J. Richerson and Morten H. Christiansen) Strüngmann Forum Reports, vol. 11, J. Lupp, series ed. pp. 193-218. Cambridge, MA: MIT Press

Cross, I.W., Fitch, T., Aboitiz, F., Iriki, A., Jarvis, E.D., Lewis, J., Liebal, K., Merker, B., **Stout, D.**, and Trehub, S.E. (2013) Culture and Evolution. In *Language, Music, and the Brain* (ed. Michael A. Arbib) Strüngmann Forum Reports, vol. 10, J. Lupp, series ed. pp. 541-562. Cambridge, MA: MIT Press

Stout, D. (2010) Possible relations between tools and language in human evolution. In *Stone tools and the evolution of human cognition*. (Ed. A. Nowell & I. Davidson), pp. 159-184. Boulder, CO: Colorado University Press.

Semaw, S., Rogers, M., & **Stout, D.** (2009). The Oldowan-Acheulian Transition: Is there a “Developed Oldowan” Artifact Tradition? In M. Camps & P. Chauhan (Eds.), *Sourcebook of Paleolithic Transitions: Methods, Theories, and Interpretations* (pp. 173-193). New York: Springer. (cited by 22)

Other Edited Volumes:

Stout, D. (2020). Culture, Mind, and Brain in Human Evolution: An Extended Evolutionary Perspective on Paleolithic Toolmaking as Embodied Practice. In L. J. Kirmayer, C. M. Worthman, S. Kitayama, R. Lemelson, & C. Cummings (Eds.), *Culture, Mind, and Brain: Emerging Concepts, Models, and Applications*. Cambridge: Cambridge University Press.

CRedit: Writing – original draft

Rilling, J.K., **Stout, D.** Evolution of the Neural Bases of Higher Cognitive Function in Humans. (2014) In Michael Gazzaniga and George R. Mangun (Eds.), *The Cognitive Neurosciences*, 5th edition, pp. 41-49. Cambridge: MIT Press

Stout, D., Schick, K., Toth, N. (2009) Understanding Oldowan knapping skill: an experimental study of skill acquisition in modern humans. In *The Cutting Edge: New Approaches in the Archaeology of Human Origins* (ed. N. Toth & K. Schick). pp. 247-266. Gosport, IN: Stone Age Institute Press.

Stout, D. (2006) Oldowan toolmaking and hominin brain evolution: theory and research using Positron Emission Tomography (PET). In *The Oldowan: case studies into the earliest Stone Age* (ed. N. Toth & K. Schick), pp. 267-306. Gosport, IN: Stone Age Institute Press.

Stout, D. & Semaw, S. (2006) Knapping skill of the earliest stone toolmakers: insights from the study of modern human novices. In *The Oldowan: case studies into the earliest Stone Age* (ed. N. Toth & K. Schick). pp. 307-320. Gosport, IN: Stone Age Institute Press.

Stout, D., Toth, N. & Schick, K. (2006) Acheulean toolmaking and hominin brain evolution: a pilot study using Positron Emission Tomography. In *The Oldowan: case studies into the earliest Stone Age* (ed. N. Toth & K. Schick), pp. 321-331. Gosport, IN: Stone Age Institute Press.

Stout, D. (2005) The social and cultural context of stone knapping skill acquisition. *Stone Knapping : the necessary conditions for a uniquely hominin behaviour*. Edited by V. Roux and B. Bril. McDonald Institute Monograph. Oxford: Oxbow Books. (Actes du workshop de Pont-à-Mousson, 21-24 novembre 2001)

Stout, D. (2005) Neural foundations of perception and action in stone knapping. *Stone Knapping : the necessary conditions for a uniquely hominin behaviour*. Edited by V. Roux and B. Bril. McDonald Institute Monograph. Oxford: Oxbow Books. (Actes du workshop de Pont-à-Mousson, 21-24 novembre 2001)

Comments and Reviews:

Stout, D. What is “cumulative” evolution? Comment on “Is human culture cumulative?” by Krist Vaesen and Wybo Houkes, *Current Anthropology*. 62(2), 230.

CRedit: Writing – original draft

Stout, D. (2017) Comment on “Early Stone Tools and Cultural Transmission Resetting the Null Hypothesis” by Claudio Tennie, L. S. Premo, David R. Braun, and Shannon P. McPherron. *Current Anthropology*. 58(5)

Stout, D. (2016) The modern era of research on language evolution: Moving forward: Comment on “Towards a computational comparative neuroprimatology: Framing the language-ready brain” by Michael A. Arbib. *Physics of Life Reviews*, 16, 99-100.

Stout, D. (2006) Book review: “From monkey brain to human brain: a Fyssen Foundation symposium.” *Journal of Human Evolution* 51: 111-112.

Stout, D. (2004) Comment on "The invention of technology" by S. de Beaune. *Current Anthropology* 45 (2): 155.

Stout, D. (2002) Thinking and doing in Cognitive Archaeology: Giving skill its due. *Behavioral and Brain Sciences* 25 (3): 421-422.

Stout, D. (2001) Constraint and adaptation in primate brain evolution. *Behavioral and Brain Sciences* 24 (2): 295-296.

Grants and Funding:

Not Funded (6/25/21):

James S. McDonnell Foundation Opportunity Award: Understanding Human Cognition, 2021-2023
"Understanding cross-cultural and individual variation in skill learning: neural, behavioral, and hormonal mechanisms in U.S. (Atlanta, GA) and BaYaka forager (Congo Basin) children"
PI (with 3 co-investigators)
Budget: \$250,000

Under Review:

NSF Integrative Strategies for Understanding Neural and Cognitive Systems (21-517), 2021-2026
"Foundations of learning: individual variation, plasticity, and evolution"
PI for Emory thread of collaborative proposal
Emory Budget: \$974,304

Current:

NSF BCS Archaeology DDRI (15-554) Doctoral Dissertation Research, 2020-2022
"Developmental and Individual Differences in Learning Stone Knapping"
PI (as faculty advisor for Megan Beney Kilgore)
Budget: \$16,458

Halle Institute for Global Research, 2020-2021 (delayed to 2021-2022)
Emory University – Tel Aviv University Collaborative Research Grant: "Skilled practice, culture and cognition in the Paleolithic"
Co-PI with Ran Barkai (TAU)
Emory Budget: \$10,000

Completed:

NSF Integrative Strategies for Understanding Neural and Cognitive Systems (16-508), 2016-2020.
"Individual variation, plasticity, and learning in human brain evolution"
Co-Investigator (PI: Erin Hecht, Harvard)
Total award: \$970,704
Emory sub-contract: \$701,647

NSF Interdisciplinary Behavioral and Social Science Research (12-614), 2014-2018
"The interrelated development of language and technology"
PI (with 5 co-investigators)
\$349,352

John Templeton Foundation, 2014-2016
"Homo faber: The language of technology"

PI (with 4 co-investigators)
\$198,784

Emory University Research Committee, 2015-2016
“The Language of Technology: Neural Substrates of Tool-making and Language”
PI (with 1 co-investigator)
\$33,520

Emory Conference Center Hotel Subvention Fund, 2016
Workshop: “From tools and gestures to the language-ready brain”
Co-organizer
Amount: \$18,100

Leverhulme Trust Research Grant, 2010-2013
Learning to be Human: Skill acquisition and the development of the human brain
Co-I
Amount: £231,237

Leakey Foundation General Research Grant, 2012
Understanding Late Acheulean Knapping Skill and its Cognitive Implications
PI
Requested: \$13,825, Awarded \$9,400

Wenner-Gren Foundation Post-Ph.D. Research Grant, 2012
Understanding Late Acheulean Knapping Skill and its Cognitive Implications
PI
Requested: \$11,993; Awarded \$11,993; Accepted \$4,628

Emory University Center for Systems Imaging Pilot Study Grant, 2012
The Neural Foundations of Human Tool Use
PI
Amount: Waiver of imaging fees (\$12,500)

European Commission Sixth Framework Programme, 2006-9
Hand to Mouth: A Framework for Understanding the Archaeological and Fossil Records of Human
Cognitive Evolution
PI (Work Package 8)
Amount: £81,374

British Academy Small Grant, 2006-7
Gona Palaeoanthropological Research Project, excavations at early Acheulean locality BSN17
PI
Amount: £1,705

CRAFT Research Grant, 2005
Handaxe Making and Brain Activation: A Pilot Study Using Positron Emitted Tomography
PI
Amount: \$8,000

National Science Foundation Dissertation Enhancement Grant, 2001
Stone Tools and the Brain: A Positron Emitted Tomographic Study.
Amount: \$12,000

L.S.B. Leakey Foundation General Grant, 2000
Stone Tools and the Brain: A Positron Emitted Tomographic Study.
PI
Amount: \$11,970

Research Grant: Centro Studi Ligabue, 1999
Stone-Adze Makers of Langda Village, Irian Jaya, Indonesia
PI
Amount: \$3,000

CRAFT Research Grant, 1999
Stone-Adze Makers of Langda Village, Irian Jaya, Indonesia
PI
Amount: \$4,000

International Enhancement Grant 1997
Amount: \$1,000
Office of International Studies
Indiana University - Bloomington, IN

CRAFT Research Fellowships, 1998, 1999, 2000, 2001, 2002, 2003
Center for Research into the Anthropological Foundations of Technology (CRAFT)

Research Assistant, 1997
Center for Research into the Anthropological Foundations of Technology (CRAFT)

Associate Instructorship 1996 - 1998
Indiana University - Bloomington, IN

Skomp Fellow, 1995
Indiana University - Bloomington, IN

Teaching Support:

Martin-Masse Theory Practice Learning Equipment Grant, 2011
\$90

Center for Faculty Development and Excellence (CFDE) Classroom Mini Grants, 2011
\$150

Professional Presentations

Organized workshops and symposia:

“From Tools and Gestures to the Language-Ready Brain”: Emory Conference Center Hotel (April 10-12, 2016). 27 participants. Co-organized with Michael Arbib, Erin Hecht, and Todd Preuss.

“Hands, Brains, and Tools: Integrating concepts in human evolution” Invited podium symposium, 85th annual meeting of the American Association of Physical Anthropologists: Atlanta. GA (April 13 - 16, 2016)

Invited papers and workshops (selected):

Stout, D. “Culture, Mind, and Brain in Human Evolution” Online presentation for Division of Social & Transcultural Psychiatry, McGill University. 7 January 2021.

Stout, D. “Stone tools and human evolution: life in the technological niche” Online presentation for Sharma Centre for Heritage Education, India. 23 November 2020.

Stout, D. “Neurocognitive foundations of stone tool-making skill learning: an individual differences approach” Unravelling Past Cognition: Approaches Across Disciplines, symposium of the 42nd Annual (Virtual) Meeting of the Cognitive Science Society, July 29- August 1, 2020.

Stout, D. “The archaeology of skill acquisition” *Material evidence and cognitive evolution*. Centre for Philosophy of the Sciences, School of Philosophy, Australian National University. Canberra, Australia, 15-17 July, 2019.

Stout, D. “The syntax of action: language and technology in human evolution” Institut de Neurosciences de la Timone seminar series. Marseille, France. 26 April 2019.

Stout, D. “Human Evolutionary Neuroscience: Life in the Technological Niche” McGill University *Culture, Mind & Brain Program* and *Healthy Brains Healthy Lives Initiative Seminar Series*. Montreal, Quebec. 14 March 2019.

Stout, D. “Language and Technology in Human Evolution” Cornell Cognitive Science Program Colloquium Series. Ithaca, NY. 26 October, 2018.

Stout, D. “Early Hominin Stone Tools” Center for Academic Research and Training in Anthropogeny (CARTA) Public Symposium *Impact of tool-use and technology on the evolution of the human mind*. Salk Institute, La Jolla, CA, 12 October 2018.

Stout, D. “Technology and Language in Human Evolution” Center for Academic Research and Training in Anthropogeny (CARTA) Private Symposium *Impact of tool-use and technology on the evolution of the human mind*. Salk Institute, La Jolla, CA, 13 October 2018.

Stout, D. “Tool-making & Language: neuro-computational models of action syntax in human evolution.” Invited Symposium, Kyoto Conference on Evolving Linguistics 2018, Kyoto, Japan, 6 August 2018.

Stout, D. “Stone tools and language evolution: the technological pedagogy hypothesis.” Invited lecture, Brain Science Institute, Tamagawa University, Tokyo, Japan, 4 August 2018

Stout, D. “Stone tools and language evolution: the technological pedagogy hypothesis.” Invited Symposium, Japanese Society for Language Sciences 20th Annual International Conference, Fujimino Campus, Bunkyo Gakuin University, Tokyo, Japan, 3 August 2018.

Stout, D. Pargeter, J.* Khreisheh, N.*, Bryant, K.*, Hecht, E.E. “The “molecular genetics” of social learning: skill acquisition and individual differences in learning.” *Social Learning in the Paleolithic: Experimental Approaches*. Session of the Society for American Archaeology annual meetings, Washington DC, 13 April 2018

Beney, M.** , Putt, S., **Stout, D.** “Pedagogy in the Paleolithic? The Influence of Verbal Teaching on Stone Knapping Skill Acquisition” *Social Learning in the Paleolithic: Experimental Approaches*. Session of the Society for American Archaeology annual meetings, Washington DC, 13 April 2018

Stout, D. Keynote presentation “*Homo artifex*: tool-making and human brain evolution” at the Clayton State University 2017 Student Academic Conference on April 28, 2017.

Stout, D. "The evolutionary neuroscience of cumulative culture" George H. Odell Seminar Series, University of Tulsa, OK, February 16, 2017.

Stout, D. "Skill learning, neuroplasticity and exaptation in the evolution of human tool-making and language" Extension of Biology through Culture: Arthur M. Sackler Colloquium of the National Academy of Sciences. Beckman Center, Irvine, CA, November 15-17, 2016.

Stout, D. "Stone tools and human brain evolution" *Evolution du cerveau et des capacités cognitives des hominides fossils depuis Sahelanthropus tchadensis, il y a sept millions d'annes, jusqu'à l'homme moderne*. International Colloquium, Centre Européen de Recherches Préhistoriques de Tautavel, France, October 27-30, 2016.

Stout, D. "Homo artifex: skill and human brain evolution." *Stone Age Institute conference series*, Indiana University, Bloomington, IN, October 10, 2016.

Stout, D. Attendee: Foundation for Psychocultural Research, Culture, Mind and Brain book-writing workshop. Santa Monica, CA, October 7-8, 2016.

Stout, D. Attendee: *Turkana Basin Institute Human Evolution Workshop XIII "Rethinking tool-making."* TBI-Turkwel, Kenya, August 2-6, 2016.

Stout, D. "Tools, Language, and Archaeology" ABLE Workshop "From Tools and Gestures to the Language-Ready Brain": Emory Conference Center Hotel (April 10-12, 2016).

Stout, D., Khreisheh, N., Hecht, E.E., Li, Z., Hu, X. "Neural basis of tool-making skill learning: structure, function and evolution", 85th annual meeting of the American Association of Physical Anthropologists: Atlanta. GA (April 13 -16, 2016)

Stout, D. "Homo artifex: tools, skill and human brain evolution" *Evolutionary Anthropology 2015-2016 Seminar Series*, Duke University, Durham, North Carolina. 6 November, 2015.

Stout, D. "Empirical Evolutionary Anthropology" *ABLE Workshop: Vision and Language in the Context of Brain, Evolution and Computation*. Michael Arbib, organizer. Chicago, IL, 13-14 October 2015.

Stout, D. "Human Brain Evolution: History or Science?" *32nd Altenberg Workshop in Theoretical Biology: Is Paleoanthropology an Evolutionary Science?* Konrad Lorenz Institute, Klosterneuburg, Austria, 17-20 September, 2015.

Stout, D. "Stone tool-making and the right cerebral hemisphere" *Cognitive Archaeology*. Session of the Society for American Archaeology annual meetings, San Francisco, CA, 16 April 2015.

Stout, D. "Naturalistic fracture mechanics: technology, skill, and debitage morphology" *Lithics, evolution, science*. Session of the International Union of the Prehistoric and Protohistoric Sciences World Congress in Burgos, Spain, 2 September 2014.

Stout, D. "Experimental Neuroarchaeology" *Duke Institute for Brain Sciences Workshop: Reading the Past: Mind, Brain, and Archaeology*. Duke University, Durham, North Carolina, 10 April, 2014.

Stout, D. "Skill learning and human brain evolution" *Homo docens: The evolution of education*. Workshop held at the Stellenbosch Institute for Advanced Study, Stellenbosch, South Africa, 18-20 November, 2013. P. Gardenfors and A. Hogberg, chairs.

Stout, D. “*Homo faber: stone tools and human brain evolution*” *Issues in Cognitive Science series*, Rensselaer Polytechnic Institute, Cognitive Science Department, Troy, New York, 23 October, 2013.

Stout, D. “Neuroarchaeology” *On the cutting-edge: new methods and theory for analyzing stone tools*. A joint Amerind Museum / Simon Fraser University / University of Missouri symposium, Dragoon, Arizona, 20-23 September, 2013

Stout, D. “Social Neuroscience of Stone Tool-Making Skill Acquisition” *Replacement of Neanderthals by Modern Humans 2012 International Conference*. Tokyo, Japan, 18-24 November, 2012.

Stout, D. Discussant. *Ernst Strüngmann Forum: Cultural Evolution*. Peter J. Richerson and Morten H. Christiansen, Chairpersons. Frankfurt, Germany, 27 May - 1 June, 2012.

Stout, D. “Evolution of dorsal and ventral streams” *Processing along dorsal and ventral streams in the brain: A multidisciplinary discussion on current questions in language, attention, music, memory, calculation and the motor system*. Discussion meeting hosted by the Freiburg Institute for Advanced Studies and Department of Neurology, Freiburg, Germany, 13-14 October, 2011.

Stout, D. Discussant. *Ernst Strüngmann Forum: Language, music and the brain a mysterious relationship*. Michael Arbib, Chairman. Frankfurt, Germany, 8-13 May, 2011.

Stout, D. “*Homo artifex: object manipulation in human evolution*” *Object manipulation as a window on the mind*. Session of the 23rd Congress of the International Primatology Society, Kyoto, Japan, 12-18 September, 2010.

Stout, D. “Stone tools and the evolution of human culture and cognition” *Culture Evolves*. Joint Royal Society and British Academy discussion meeting in honor of the 350th anniversary of the Royal Society. Queen Elizabeth Hall, Southbank Centre, London, 28 – 30 June 2010.

Stout, D. “Stone tools and human brain evolution” *Twenty-Seventh European Workshop on Cognitive Neuropsychology*, Bressanone, Italy, 25-30 January, 2009

Stout, D. “The neural correlates of Early Stone Age tool-making” *The Sapient Mind: Archaeology meets Neuroscience*, McDonald Institute for Archaeological Research, Cambridge, 14-16 September 2007.

Stout, D. “The neural correlates of Early Stone Age tool-making” *The Human Brain Evolving: Papers in Honor of Ralph L. Holloway*, Indiana University, Bloomington, 27-28 April 2007.

Stout, D. “A quantitative assessment of Mode I knapping skill” *Interdisciplinary Approaches to the Oldowan*, Session of the Society for American Archaeology meetings in San Juan, Puerto Rico, 27 April 2006.

Stout, D. “Tools, language and the brain in human evolution” *Stone Tools and the Evolution of Human Cognition*, Session of the Society for American Archaeology meetings in San Juan, Puerto Rico, 27 April 2006.

Stout, D. “Technology, context and meaning in human evolution: the contribution of ethnoarchaeology” *Linking the Past to the Present: Recent Studies in Forager and Farmer Ethnoarchaeology*, Session of the Society for American Archaeology meetings in Salt Lake City, 30 March – 3 April, 2005.

Stout, D. "Raw material selectivity and technological sophistication of the earliest stone toolmakers" *Applied Actualism: Experimental Studies of Hominid Activity Traces*, Session of the Society for American Archaeology meetings in Montreal, 31 March – 4 April, 2004.

Stout, D. "An interactionist approach to skilled production in human evolution", *Skilled production and social reproduction: Aspects of traditional stone tool technologies*. Uppsala, Sweden, 20-24 August, 2003.

Stout, D. "Psychological dimensions of stone tool production: the stone adze makers of West Papua (Irian Jaya)", *Skilled production and social reproduction: Aspects of traditional stone tool technologies*. Uppsala, Sweden, August 20-24, 2003.

Stout, D. "Ethnographic and neuroscientific approaches to understanding stone knapping skill", *Knapping stone: a uniquely hominid behavior?* International Workshop, Pont-À-Mousson, France; 21-24 November, 2001.

General Sessions:

Pargeter, J*, Khreisheh, N.*, Shea, J., **Stout, D.** "Knowledge vs. Know-How? Dissecting the foundations of stone knapping skill." *Paleoanthropology Society* meeting, Albuquerque, NM (April 9-10, 2019) Presented by postdoctoral researcher Justin Pargeter.

Khreisheh, N.*, Coolidge, F., **Stout, D.** "Individual differences in stone tool making aptitude and executive function: implications for cognitive evolution," *Paleoanthropology Society* meeting, Atlanta. GA (April 12-13, 2016) Presented by postdoctoral researcher Nada Khreisheh.

Stout, D. "Technological variation in the earliest Oldowan from Gona, Ethiopia" *Paleoanthropology Society* meeting, Vancouver, 2008.

Stout, D. "Stone tools and the brain: the neural substrates of Mode I knapping skill as revealed by Positron Emission Tomography (PET)", *Paleoanthropology Society* meeting, Tempe, 2003.

Stout, D. "Stone tools and cognition in social context: an ethnoarchaeological study from New Guinea", *Paleoanthropology Society* meetings, Kansas City, 2001.

Teaching

Emory

Instructor, MBC 600: *Research Group Seminar in Mind, Brain, and Culture*, Spring 2018 -

Instructor, MBC 501: *MBC Certificate Core Course*, Spring 2019 -

Instructor, Anth 503: *Evolutionary Processes*, Spring 2014 -

Instructor, Anth 585: *Anthropology of Technology*, Spring 2013

Instructor, Anth 585: *Evolution, Brain, and Mind*, Fall 2009 –

Instructor, Anth 385: *Paleolithic Archaeology*, Fall 2012 -

Instructor, Anth 316: *Evolution of the Human Brain and Mind*, Spring 2010 -

Instructor, Anth 304W: *Paleolithic Archaeology*, Fall 2017

Instructor, Anth 204: *Introduction to Archaeology*, Spring 2010 -

Coordinator, Anth 555: *Biological Anthropology Seminar*, 2011 - 2013

Contributor, Psyc 730: *fMRI Research Group*, 2010 - 2012

UCL

Instructor, Arch G183: *Evolution of Human Cognition (Masters seminar)*, 2009

Instructor, Arch G120: *Approaches to Artefact studies (MA core course)*, 2007-2008
Instructor, Arch 3070: *Ethnoarchaeology and Experimental Archaeology*, 2007
Instructor, Arch 3067: *Cognitive Evolution and Early Technology*, 2006-2007
Instructor, Arch G168: *Ethnoarchaeology (Masters seminar)*, 2006-2008
Instructor: *Flintknapping*, Experimental Archaeology Field Course, 2005-2008
Contributing lecturer, Arch C598: *Lithic Technology*, 2007
Contributing lecturer, Arch 1003: *Past Societies (1st year core course)*, 2005-2007

GWU

Instructor, Anth 149: *The Evolution of Human Intelligence*, Spring 2005
Instructor, Anth 003: *Introduction to Archaeology*, Fall 2004, Spring 2005
Instructor, Anth 183: *Human Cultural Beginnings (Paleolithic Archaeology)*, Fall 2004

IU

Faculty Research Mentor: *McNair Scholars Summer Research Program*, 2004
(*The McNair Scholars Program helps to prepare low-income, first-generation and minority students for graduate work by supporting them through a 10-week, faculty-guided independent research project*)
Instructor, A105: *Human Origins and Prehistory*, Fall 1997, Spring 1997, Summer Session 1998
Teaching Assistant, A105: *Human Origins and Prehistory*, Fall 1996, Spring 1998
A521: *Internship in Teaching Anthropology*, Fall 1996

Advising

Post-Doctoral

Dr. Justin Pargeter, Paleolithic Technology Lab, Emory University Dept. of Anthropology, 2017-19
Dr. Katherine Bryant, Paleolithic Technology Lab, Emory University Dept. of Anthropology, 2016-17
Dr. Nada Khreisheh, Paleolithic Technology Lab, Emory University Dept. of Anthropology, 2014-16
Dr. Erin Hecht, Paleolithic Technology Lab, Emory University Dept. of Anthropology, 2013
Dr. Jan Apel, Institute of Archaeology, UCL, 2007-8

Doctoral

Principle Supervisor: Daniel Coppeto (ANT), 2019-20; Cheng Liu (ANT) 2019-; Grace Veatch (ANT) 2018-;
Megan Beney (ANT) 2016- ; Matthew Duval (ANT), 2010-2012; Joshua Robinson (ANT), 2010-2014
Secondary Supervisor: Katherine Bryant (Neurosci), 2011-15, Daniel Coppeto (ANT), 2012-16, Christina
Tzeng (PSY), 2013 –16, Christina Rogers, 2015 - 2019, Ryan James Brady (PSY) 2017-2020
External Dissertation Committee Member: Erin Williams, George Washington University, 2011

Other Graduate

Faculty Advisory Committee: Sam Hunley (PSY), 2013

Undergraduate Honors Theses

Committee Member: Katherine Marklein, 2010; Daniel Brubaker, 2010; Amanda Winburn, 2011; Wes
Smith, 2012; Julia Commander, 2013; Nadine Juwita Jacquez, 2014; William Snyder, 2015; Jana
Muschinski, 2015; Hannah Smagh, 2015; Nicholas Singletary, 2016; Aditi Majoe 2019

SIRE/RPP Undergraduate Research Faculty Mentor

Julia Commander, 2011-2012
Aditi Majoe, 2017-2018
Taylor Robinson, 2018-2019

Professional Service

University, College, & Departmental:

Associate Director, Emory University Center for Mind, Brain, and Culture, 2016 -

Director of Graduate Studies, Department of Anthropology, 2017 -

Program Director, Graduate Certificate in Mind, Brain, and Culture

Faculty Search Committee, open hire, Department of Anthropology, Emory University, 2019 - 20

Woodruff Fellowship Selection Committee, 2018, 2019

CFDE Emory Conference Center Subvention Fund review committee, 2016 -

Graduate Admissions Committee, Department of Anthropology, Emory University, 2016, 17, 20

Graduate Concerns Committee, Department of Anthropology, Emory University, 2016 –

Emory Scholars Program Reading Retreat, January 22-23, 2016

Dean's Teaching Fellowship Selection Committee, 2015-16

Center for Mind, Brain and Culture Advisory Committee, 2014-2016

SIRE Program for Undergraduate Research, Grants Review Committee, Emory University, 2009 –

Colloquium Committee, Department of Anthropology, Emory University, 2016 – 17

Faculty Search Committee, Primatologist hire, Department of Anthropology, Emory University, 2014 – 15

Graduate Admissions Committee, Department of Anthropology, Emory University, 2011 - 2015

Undergraduate Concerns Committee, Department of Anthropology, Emory University, 2012 - 2015

Faculty Search Committee, Paleoanthropologist hire, Department of Anthropology, Emory University, 2013 – 14

Faculty Search Committee, Behavioral Ecology hire, Department of Anthropology, Emory University, 2012 - 13

University Research Council, social science and behavioral science subcommittee, Emory University, 2012 - 2014

Undergraduate Admissions Tutor, Institute of Archaeology, University College London, 2008 – 2009

Degree Tutor, MA in Artifact Studies, Institute of Archaeology, University College London, 2007 – 2008

Affiliate (Study Abroad) Student Tutor, Institute of Archaeology, University College London, 2005 – 2009

Deputy Undergraduate Admissions Tutor, Institute of Archaeology, University College London, 2005 – 2008

Personal Tutor, Institute of Archaeology, University College London, 2005 – 2009

Graduate Research Student Supervision Sub-Committee, Institute of Archaeology, University College London, 2005 – 2009

Archaeology representative, 2004 Cotlow Research Awards Committee, Department of Anthropology, George Washington University. (*The Lewis B. Cotlow Field Research Fund is an endowment that provides field research grants to GWU undergraduate students on a competitive basis*)

Disciplinary:

Associate Editor: *Journal of Human Evolution* 2017-2020

Associate Editor: *Evolutionary Human Sciences* 2018-

Program Committee for the 39th Annual Meeting of the Cognitive Science Society

Editorial Advisory Board: *Azania: Archaeological Research in Africa* 2009-21

Ad hoc Reviewer: *Proceedings of the National Academy of Sciences*, *Nature Communications*, *Philosophical Transactions of the Royal Society B*, *Evolutionary Anthropology*, *PLoS One*, *Current Anthropology*, *American Journal of Physical Anthropology*, *Journal of Human Evolution*, *Journal of Archaeological Science*, *Topics in Cognitive Science*, *Journal of Paleolithic Archaeology*, *Journal of Language Evolution*, *Interaction Studies Laterality*, *Cambridge Archaeological Journal*, *PaleoAnthropology Journal*, *Ethnoarchaeology*, *Journal of Archaeological Method and Theory*

Grant Reviewer: NSF, Leakey Foundation, Human Frontier Science Program, Templeton Foundation

Book Reviewer: MIT Press, Left Coast Press

Associate (Peer Commentator): *Behavioral and Brain Sciences*, *Current Anthropology*