

Casey J. Roulette

Assistant Professor of Anthropology
San Diego State University
Department of Anthropology
5500 Campanile Dr., San Diego, CA 92182

Tel. (619) 594-2271

Fax. (619) 594-1150

croulette@sdsu.edu

<http://bioanthlabsdsu.weebly.com/people.html>

<http://caseyroulette.weebly.com/>

Education

2015 – 2016 Post-Doctoral Research Fellowship, Paul Allen School of Global Animal Health, Washington State University
2015 Ph.D. in Anthropology, Washington State University
2010 M.A. in Anthropology, Washington State University
2008 B.A. in Anthropology, Washington State University Vancouver

Research Interests

Behavioral ecology and biology of human exploitation of plant secondary metabolites (drug use, food-medicines, self-medication)

Cultural transmission and Community health interventions

Professional Appointments/History

2016 Assistant Professor, Department of Anthropology, San Diego State University
2015 Research Fellow, Paul Allen School of Global Animal Health, Washington State University
2013-2015 Instructor. Department of Anthropology, Washington State University Vancouver
2011-2013 Instructor. Department of Anthropology, Washington State University
2008-2011 Teaching Assistant. Department of Anthropology. Washington State University

Peer Reviewed Publications

Roulette, J., Roulette CJ, Quinlan R., Call D., Hewlett B., Caudell M., and Quinlan M. (*in press*) Children's ethnobiological notions of contamination and contagions among Maasai agro-pastoralists of northern Tanzania. *Journal of Ethnobiology*. Accepted April, 2018.

Roulette CJ, Njau E-F A, Quinlan MB, Quinlan RJ, and Call DR (2018). Medicinal foods and medicines among Maasai agro-pastoralists in northern Tanzania. *Journal of Ethnopharmacology*, 216:191-202. <https://doi.org/10.1016/j.jep.2018.01.022>

Roulette CJ, Caudell MA, Roulette JW, Quinlan RJ, Quinlan MB, Subbiah M, and Call DR (2017). A two-month follow-up evaluation testing interventions to limit the emergence and spread of antimicrobial resistant bacteria among the Maasai of northern Tanzania. *BMC Infectious Diseases*, 17(1):770. <https://doi.org/10.1186/s12879-017-2857-z>

Caudell M, Quinlan M, Subbiah M, Call D, Roulette CJ, Roulette JW, Roth, A., Matthews L, and Quinlan RJ (2017). Antimicrobial Use and Veterinary Care among Agro-pastoralists in Northern Tanzania. *PLOS One*. <https://doi.org/10.1371/journal.pone.0170328>

Hewlett BS and Roulette CJ (2016). Teaching in Hunter-Gatherer Infancy. *Royal Society Open Science*, 3(1). [doi: 10.1098/rsos.150403](https://doi.org/10.1098/rsos.150403)

Roulette CJ, Hagen EH, Hewlett BS (2016). A Biocultural Investigation of Gender Differences in Tobacco Use in an Egalitarian Hunter-Gatherer Population. *Human Nature*, 27(2). <https://doi.org/10.1007/s12110-016-9255-x>

Roulette CJ, Kazanji M, Breurec S, and Hagen EH (2015). High prevalence of cannabis use among Aka foragers of the Congo Basin, and its possible relationship to helminthiasis. *American Journal of Human Biology*. <https://doi.org/10.1002/ajhb.22740>

Roulette, CJ, et al. (2014). Tobacco use vs. helminths in Congo basin hunter-gatherers: self-medication in humans? *Evolution and Human Behavior*. <http://dx.doi.org/10.1016/j.evolhumbehav.2014.05.005>

Hagen EH, Roulette CJ and Sullivan RJ (2013) Explaining human recreational use of 'pesticides': the neurotoxin regulation model of substance use vs. the hijack model and implications for age and sex differences in drug consumption. *Front. Psychiatry* 4:142. <https://doi.org/10.3389/fpsy.2013.00142>

Book Chapters

Hewlett BS, Berl REW, and Roulette CJ (2016). [Teaching and overimitation among Aka hunter-gatherers](#). In H Terashima and BS Hewlett (Eds), *Social Learning and Innovation among Contemporary Hunter-Gatherers*. Tokyo: Springer.

Invited Talks

- 2018 'Cultural practices and antimicrobial resistance in three Tanzanian populations'. Institute of Viromics, San Diego State University.
- 2017 'Plant neurotoxins, patterns of use, and parasites among Aka foragers of the Congo Basin'. Palomar College, San Diego, CA.
- 2017 'Plant neurotoxins, patterns of use, and parasites among Aka foragers of the Congo Basin'. Department of Anthropology Speaker Series, University of Nevada Las Vegas.
- 2012 'Tobacco, cannabis, parasites, and life history strategies in hunter-gatherers from the Central African Republic'. Invited Symposium Paper, 81st annual meeting of the American Association of Physical Anthropologists, Portland, OR. (with EH Hagen)
- 2010 'Cultural models and patterns of tobacco use among Aka forest foragers'. Special Workshop on Recent Research Among Congo Basin Hunter-Gatherers and Farmers. Albuquerque, NM.

Conference Papers and Posters

- 2018 'Patterns of Cannabis Use Among Congo Basin Foragers'. Paper presented at 47th Annual Meeting of the Society for Cross-Cultural Research. Las Vegas, NV. (with BS Hewlett).
- 2017 'Ethnobiology of East African Livestock Medication & Antibiotic Resistance among Maasai, Arusha & Chagga People and Animals'. Paper presented at Society of Ethnobiology 40th Annual Conference, Montreal, Quebec. (with M Quinlan, R Quinlan, M Caudell, J Roulette, and DR Call)
- 2017 'Cultural Transmission of Knowledge and Innovations to Limit the Emergence and Spread of Antimicrobial Resistance among Semi-Nomadic Maasai of Northern Tanzania'. Paper presented at 46th Annual Meeting of the Society for Cross-Cultural Research. New Orleans, LA. (with J Roulette, R Quinlan, M Caudell, and DR Call)

- 2017 'Recreational drug use among hunter-gatherers in the ethnographic record: Preliminary results'. Paper presented at 46th Annual Meeting of the Society for Cross-Cultural Research. New Orleans, LA. (with E Ringen)
- 2017 'Antimicrobial use and veterinary care among ago-pastoralists in Northern Tanzania'. Paper presented at 46th Annual Meeting of the Society for Cross-Cultural Research. New Orleans, LA. (with M Caudell, M Quinlan, M Subbiah, DR Call, J Roulette, A Roth, L Matthews, and R Quinlan)
- 2017 'Conversation Hour: Fieldwork and Family'. The 46th Annual Meeting of the Society for Cross-Cultural Research. New Orleans, LA. (with A Crittenden, B Hewlett, A Takada, J Roulette, and C Meehan).
- 2016 'Maasai dietary additives in Tanzania: Ethnomedical beliefs, ethnopharmacology, and gender differences in use'. Paper presented at 45th Annual Meeting of the Society for Cross-Cultural Research. Portland, OR. (with E-F Njau, M Quinlan, R Quinlan, and DR Call)
- 2016 'Teaching and overimitation in hunter-gatherers'. Paper presented at 45th Annual Meeting of the Society for Cross-Cultural Research. Portland, OR. (with BS Hewlett and REW Berl)
- 2015 'Cannabis use vs helminthiasis among Congo Basin Foragers: Evidence of self-medication?' Paper presented at the 27th annual Human Behavior and Evolution Society Conference, Columbia, MO. (with EH Hagen)
- 2015 'Recreational drug use versus intestinal helminth infection among Congo Basin foragers'. Paper presented at The International Society for Evolution, Medicine, & Public Health the Evolutionary Medicine and Public Health Inaugural Meeting, Tempe, AZ.
- 2015 'Cannabis vs helminth infection: Cannabis use as chemoprophylaxis against intestinal helminth infection among Aka forest foragers of the Central African Republic'. Paper presented at the 84th Annual Meeting of the American Association of Physical Anthropologists, St. Louis, MO. (with EH Hagen)
- 2015 'Cannabis vs Helminth Infection: Cannabis Use as Chemoprophylaxis Against Intestinal Helminth Infection Among Aka Forest Foragers of the Central African Republic'. Poster presented at the 84th annual meeting of the American Association of Physical Anthropology, Session on Nutrition, Health and Disease. St. Louis, MO.
- 2014 'Drug toxicity, not reward, explains large age and sex differences in substance use'. Paper presented at the 83rd annual meeting of the American Association of Physical Anthropologists, Calgary, Alberta, Canada. (with EH Hagen and RJ Sullivan)
- 2013 'Sugar and ice and everything nice: an evolutionary approach to age and sex differences in substance use'. Paper presented at the 25th annual Human Behavior and Evolution Society Conference, Miami, FL. (with EH Hagen and RJ Sullivan)
- 2013 'Avoidance and regulation of nicotine among Central African foragers: An evolutionary and life history perspective'. Paper presented at the 1st Annual Symposium of the Northwest Evolution Ecology and Human Behavior, Boise, ID. (with EH Hagen)
- 2012 'Drugs are bad... for pathogens: Tobacco and cannabis vs. helminths in Central African foragers'. Paper presented at the 24th Annual Human Behavior and Evolution Society Conference, Albuquerque, NM. (with EH Hagen, R Sullivan, H Mann, B Kemp, D Monchey, F Thomas, J Wilcox, and M Remiker)
- 2011 'Does treating intestinal helminth infections reduce smoking behavior? Results of a double-blind, placebo-controlled, randomized control trial among Central African foragers'. Paper presented at the 80th annual meeting of the American Association of Physical Anthropologists, Minneapolis, MN. (with EH Hagen, M Remiker, J Wilcox, BS Hewlett, RJ Sullivan and D Monchy)
- 2010 'Cultural models and Patterns of Tobacco Use among Aka Forest Foragers'. Paper presented at the 38th Annual Meeting of Society for Cross Cultural Research, Albuquerque, NM.
- 2010 'Cultural models and gender differences in tobacco use among Congo Basin hunter-gatherers'. Paper presented at the International Conference on Congo Basin hunter-gatherers. Montpellier, France.
- 2010 'Recreational drug use as potential protection against pathogens: smokers among Central African foragers have fewer worms than non-smokers'. Paper presented at the International Conference on Congo Basin hunter-gatherers. Montpellier, France. (with EH Hagen, BS Hewlett, RJ Sullivan, and R Laganier)
- 2010 'Recreational drug use as potential protection against pathogens: Smokers among Central African foragers have fewer worms than non-smokers'. Paper presented at the 79th annual

- meeting of the American Association of Physical Anthropologists, Albuquerque, NM. (with EH Hagen, BS Hewlett, RJ Sullivan, and R Laganier)
- 2009 'Drug use as potential protection against pathogens: Tobacco consumption vs. helminth load in Aka foragers'. Paper presented at the 21st Annual Human Behavior and Evolution Society Conference, Fullerton, CA. (with EH Hagen, BS Hewlett and RJ Sullivan)
- 2009 'Ndako: Cultural models and patterns of tobacco smoking among Aka foragers'. Paper presented at the 62nd Annual Northwest Anthropological Conference, Newport, OR.

Internal Research Grants

2017	San Diego State University (SDSU), University Grants Program (UGP)	\$10,000
2015	WSU Vancouver Graduate Student Travel Grant	\$750
2012	WSU's ADARP Graduate Student Award	\$10,699
2010	WSU's ADARP Graduate Student Fellowship	\$19,764
2008	Washington State University's (WSU) Alcohol and Drug Abuse Research Program (ADARP) Undergraduate Research Award	\$5,000

Scholarships, Awards, and Prizes

2017	Leigh Minturn Memorial Award for Early Career Cross-Cultural Research. Society for Cross-Cultural Research.	\$300
2015	Margo Wilson Award, Human Behavior and Evolution Society. Best research paper 2015: Roulette CJ, Mann H, Kemp BM, Remiker M, Roulette JW, Hewlett BS, Kazanji M, Breuruc S, Monchy D, Sullivan RJ, Hagen EH (2014). Tobacco use vs. helminths in Congo basin hunter-gatherers: self-medication in humans? <i>Evolution and Human Behavior</i> , 35(5):397-407.	\$1,500
2011	Phyllis and Richard Daugherty Scholarship for Graduate Student Excellence	\$500
2009	Elaine Burgess Graduate Fellowship Award	\$500
2002	National Americorps Grant Recipient.	

Courses Taught

Human Biocultural Origins (SDSU)
 Evolution and Human Behavior (SDSU)
 Human Adaptability (SDSU)
 Principles of Physical Anthropology (SDSU)
 Graduate Seminar in Physical Anthropology (SDSU)
 Peoples of the World (Washington State University Vancouver)
 Sex, Evolution and Human Nature (Washington State University)

Professional Service

- 2018 47th Annual Meeting of the Society for Cross-Cultural Research, Las Vegas, NV. (Program Committee Chair, Abstract Reviewer, Poster Session Judge, and Paper Session Chair).
- 2017 – present Society for Cross-Cultural Research Newsletter (editor)
- 2017 *Journal of Diabetes Research and Therapy* (reviewer)
- 2017 *Proceedings of the National Academy of Sciences* (reviewer)
- 2016 *Journal of Ethnobiology* (reviewer)

In the news and media

- 2017 Podcast Interview, "'The Next Level' (Performance Enhancers)." Episode 4 of the podcast series, *The Mist: Drugs, Cults, and Cultures*, by Nate John.
<https://www.podomatic.com/podcasts/mistpodcast>

- 2015 "Medical marijuana: Hunter-gatherer users have fewer worms". *WSU News*. By Eric Sorensen, WSU science writer. Article on Roulette et al. (2015) *American Journal of Human Biology*. <https://news.wsu.edu/2015/06/01/medical-marijuana-hunter-gatherer-users-have-fewer-parasites/#.VfMrtly503Y>
- 2015 "Pot for parasites? Pygmy men smoke out worms". *National Public Radio*. By Michaeleen Doucleff. Article on Roulette et al. (2015) *American Journal of Human Biology*. <http://www.npr.org/sections/goatsandsoda/2015/06/23/411471559/pot-for-parasites-pygmy-men-smoke-out-intestinal-worms>
- 2015 "New look at pot-smoking pygmies suggest marijuana helps deter parasites". *Huffington Post*. By Macrina Cooper-White. Article on Roulette et al. (2015) *American Journal of Human Biology*. http://www.huffingtonpost.com/2015/06/05/marijuana-parasites-deworming_n_7497222.html