Sean P. Prall

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Positions

University of Missouri

Assistant Professor, Department of Anthropology

2019-current

University of California, Los Angeles

Postdoctoral Scholar, Department of Anthropology

2016-2019

University of Washington

Research Scientist, Department of Biomedical Informatics & Medical Education 2015-2016

New Mexico State University

Visiting Assistant Professor, Department of Anthropology

2015

Education

Indiana University, Ph.D. Anthropology

2014

Boise State University, B.A. Anthropology

2008

Publications

Journal Articles

Scelza BA, **Prall SP**, Levine N. (in press) The disequilibrium of double descent: changing inheritance norms among Himba pastoralists. *Philosophical Transactions of the Royal Society B*.

Prall SP, Yetish G, Scelza BA, Siegel JM. 2018. The influence of age and sex specific labor demands on sleep in Namibian agro-pastoralists. *Sleep Health* 4(6):500-508

Scelza BA, **Prall SP**. 2018. Partner preferences in the context of concurrency: what Himba want in formal and informal partners. *Evolution and Human Behavior* 39:212-219.

Longman D, **Prall SP**, Shattuck EC, Stephen ID, Stock JT, Wells JCK, Muehlenbein MP. 2018. Short-term resource allocation during extensive athletic competition. *American Journal of Human Biology* 30: e23052.

Tieder JS, **Prall SP**, Beck J, Alberda E, Jensen D, Nair D, Carline JD. 2017. A survey of perceived effectiveness of Part 4 Maintenance of Certification. *Hospital Pediatrics*, 7(11): 642-648.

Prall SP, Scelza BA. 2017. Child fosterage and sex-biased nutritional outcomes among Namibian Pastoralists. *American Journal of Human Biology* 29(6): e23058.

Hodges-Simeon CR, **Prall SP**, Blackwell A, Gurven M, Gaulin SJC. 2017. Adrenal maturation, nutritional status and mucosal immunity in Bolivian youth. *American Journal of Human Biology* 29(5): e23025.

Prall SP, Larson EE, Muehlenbein MP. 2017. The role of dehydroepiandrosterone on functional innate immune responses to acute stress. *Stress and Health* 33:656-664.

Prall SP, Muehlenbein MP. Dehydroepiandrosterone and multiple measures of functional immunity in young adults. 2015. *American Journal of Human Biology* 27(6):877-880.

Georgiev AV, Muehlenbein M, **Prall SP**, Emery-Thompson M, Maestripieri D. 2015. Male quality, dominance rank and mating success in free-ranging rhesus macaques. *Behavioral Ecology* 26(3):763-772.

Prall SP, Ambu L, Nathan S, Alsisto S, Ramirez D, Muehlenbein MP. 2015. Androgens and innate immunity in rehabilitated semi-captive Orangutans (*Pongo pygmaeus morio*). *American Journal of Primatology* 77(6):642-650.

Muehlenbein MP, Pacheco MA, Taylor JE, **Prall SP**, Ambu L, Nathan S, Alsisto S, Ramirez D, Escalante AA. 2015. Accelerated diversification of non-human primate malarias in Southeast Asia: adaptive radiation or geographic speciation? *Molecular Biology and Evolution* 32(2):422-439.

Prall SP, Muehlenbein MP. 2014. Testosterone and immune function in primates: A brief summary with methodological considerations. *International Journal of Primatology* 35(3-4): 805-824.

Muehlenbein MP, Ancrenaz M, Sakong R, Ambu L, **Prall SP**, Fuller G, Raghanti MA. 2012. Ape conservation physiology: Fecal glucocorticoid responses in wild Pongo pygmaeus morio following human visitation. *PLoS ONE* 7(3): e33357.

Streeter M, **Prall SP**, Hill C. 2008. Paleohistological Study of Pleistocene Mammoth (*Mammuthus*) Bone. *Current Research in the Pleistocene* 25:189-191.

Book Chapters

Prall SP, Muehlenbein MP. 2018. DHEA modulates immune function: a review of the evidence. In: G Litwack (ed), *Dehydroepiandrosterone*. Elsevier Press.

Prall SP, Muehlenbein MP. 2017. Hormonal correlates of dominance. In: A Fuentes (ed), *International Encyclopedia of Primatology*, Wiley-Blackwell.

Muehlenbein MP, **Prall SP**, Peck HN. 2017. Immunity, hormones and life history trade-offs. In: Jasienska G, Sherry DS, Holmes DJ (eds). *The Arc of Life: Evolution and health over the life course*. Springer Press, p. 99-120.

Manuscripts under consideration

Scelza BA, **Prall SP**, Blumenfeld T, Crittenden AN, Gurven M, Kline M, Koster J, Kuschnik G, Mattison SM, Pillsworth E, Shenk MK, Starkweather K, Stieglitz J, Sum CY, Yamaguchi K, McElreath R. (in revision) Patterns of paternal investment predict cross-cultural variation in jealous response. *Nature Human Behaviour*.

Muehlenbein MP, Shattuck EC, **Prall SP**. (in revision) A meta-analysis on androgen supplementation and immune function in humans. *Scientific Reports*.

Presentations

Conference presentations and published abstracts

Prall S, Yetish G, Scelza B, Siegel J. 2019. Activity, labor demands, and sex shape sleep patterns among Himba pastoralists. *American Journal of Physical Anthropology* 168(S68):194.

Scelza B, **Prall S**, Swinford N, Gopalan S, Atkinson A, McElreath R, Sheehama J, Henn B. 2019. Husband, lover, pater, genitor: concurrency and paternity in Himba pastoralists. *American Journal of Physical Anthropology* 168(S68):218.

Prall S, Scelza B. 2018. Bad for boys, worse for girls: the sex-biased effects of fosterage on nutritional status in Himba children. *American Journal of Human Biology* 30: e23111.

Prall S, Scelza B. 2018. Effects of resource scarcity and food insecurity on partner preference. *American Anthropological Association Annual Meeting*. San Jose, CA. (Winner of the EAS New Investigator Award)

Prall S, Scelza B. 2017. Fosterage on adult strength and body fat in Himba women. *American Journal of Physical Anthropology* 162(S64): 320.

Muehlenbein MP, **Prall SP**, Shattuck EC, Sparks CS, Baker KC. 2017. Is primate sexual coloration an accurate indicator of immune functions? *American Journal of Physical Anthropology* 162(S64): 294.

Prall S, Scelza B. 2017. Characterizing perceptions of food insecurity in Himba women. *American Anthropological Association Annual Meeting*. Washington DC.

Prall S, Scelza B. 2017. Cross-cultural perceptions of jealousy. *Human Behavior and Evolution Society Annual Meeting*. Boise, ID.

Prall S, Scelza B. 2017. Fosterage and paternity uncertainty on childhood health and growth in Himba pastoralists. *California Workshop on Evolutionary Social Sciences*. San Luis Obispo, CA.

Prall SP, Muehlenbein MP. 2016. Adrenal development and androgen-immune interactions in orangutans (*Pongo pygmaeus morio*). *American Journal of Physical Anthropology* 156(S60):257.

Prall S, Scelza B. 2016. Effects of paternity confidence on child health. *American Anthropological Association Annual Meeting*. Minneapolis, MN.

Georgiev AV, Muehlenbein MP, **Prall SP**, Emery Thompson M, Maestripieri D. 2015. Innate immune function and oxidative stress as measures of male quality in Cayo Santiago rhesus macaques. *American Journal of Physical Anthropology* 156(S60):143.

Prall SP, Muehlenbein MP. 2014. The roles of dehydroepiandrosterone and testosterone in innate immunity in college-aged adults. *American Journal of Human Biology* 26(2):277-8.

Prall SP. 2014. The role of dehydroepiandrosterone in human immune function. *Anthropology Graduate Student Association Symposium,* Indiana University Bloomington.

Prall SP, Muehlenbein MP. 2013. Androgens and immune function in human and nonhuman primates. *American Journal of Physical Anthropology* 150(S56):224.

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Becker LL, **Prall SP**, Shattuck EC, Muehlenbein MP. 2013. The impact of testosterone fluctuations on competition in women. *American Journal of Physical Anthropology* 150(S₅₆):77.

Muehlenbein MP, Ancrenaz M, Sakong R, Ambu L, **Prall S**, Fuller G, Raghanti MA. 2012. Fecal glucocorticoid responses in wild orangutans following human visitation. *American Journal of Physical Anthropology* 147(S54):219.

Prall S, Muehlenbein M. 2011. The ratio of salivary testosterone to dehydroepiandrosterone changes throughout recover from respiratory tract infections in men: implications for understanding hormone-mediated immunity. *American Journal of Human Biology* 23:273.

Prall S, Blanchard S, Hurst D, Ireland E, Lewis C, Martinez L, Rich A, Singh E, Taboas C, Muehlenbein M. 2011. Salivary measures of testosterone and functional innate immunity are directly associated in a sample of healthy young adults. *American Journal of Physical Anthropology* S52:243.

Muehlenbein M, **Prall S**, and Chester E. 2011. Development of a noninvasive salivary measure of functional immunity in humans. *American Journal of Human Biology* 23:267.

Invited Presentations

- 2019. Spring Speaker Series, Department of Anthropology, University of Nevada, Las Vegas.
- 2019. Department of Anthropology, New Mexico State University.
- 2019. Department of Anthropology, University of Missouri.
- 2016. BEC Speaker Series, University of California, Los Angeles.
- 2016. BASS Seminar Series, Department of Anthropology, University of Washington.
- 2015. Anthropology Undergraduate Organization, New Mexico State University.
- 2014. Animal Behavior Brownbag Seminar Series, Institute for Mind and Biology, University of Chicago.

Grants and Fellowships

- 2013. Testing the stress-linked immunocompetence handicap hypothesis in human males. David C. Skomp Award, Department of Anthropology, Indiana University, Bloomington.
- 2012. The role of dehydroepiandrosterone in immunocompetence and immunoredistribution in humans. Indiana Academy of Science Senior Research Grant.
- 2011. The role of dehydroepiandrosterone in immunoredistribution in humans. David C. Skomp Award, Department of Anthropology, Indiana University, Bloomington.

Field Experience

2016-2016 - Kunene Rural Health and Demography Project, Kuenene Region, Namibia Three seasons of fieldwork with Himba pastoralists. Collection of demographic, anthropometric, behavioral, reproductive, and social network data. Collection of salivary samples, DNA samples, and actigraphic data.

2015 - Primate Ecotourism Survey, Kurland Township, South Africa

One field season as associate instructor in an undergraduate field school focused on primate ecotourism. Student management and oversight, and collection of survey data.

2009 & 20011 - Sabah Ecohealth Project, Sandakan, Malaysia

Two field seasons of data collection focused on ecotourism and the human-primate interface. Collection and processing of biological samples for virus extraction and identification from humans. Collection and processing of biological samples from orangutans and macaques.

2005 - Belize Valley Archaeological Reconnaissance Project, Cayo District, Belize One field season of bio-archaeology field school.

Teaching Experience

New Mexico State University - Visiting Assistant Professor - 2015

- Human's Place in Nature
- Human Osteology
- Reproductive Ecology

Indiana University, Bloomington - Associate Instructor - 2009-2014

- Introduction to Bioanthropology grader capicity, 2x
- Introduction to Bioanthropology instructor of record, 1x
- Human Anatomy Lab 3x
- Human Physiology Lab 3x
- Biology Laboratory 3x

Skills

Phlebotomy training from the Indiana University School of Medicine
Anthropometric assessment of body composition
Immunological Assays: hemolytic complement assay, serum and salivary bacteria killing assay, lymphocyte proliferation assay, dexamethasone suppression test, flow cytometry, EIA
Enzyme immunoassay for assessment of hormone concentrations
Bloodborne Pathogen, Chemical, and Biosafety Level II Training
R statistical software, Bayesian statistics, Filemaker database software
Intermediate Spanish, basic Otjiherero

Awards

New Investigator Award, Evolutionary Anthropology Society, 2018 William S. Pollitzer Student Travel Award, AAPA 2012, 2013, & 2014 Departmental Nominee for the Wells Graduate Fellowship Award, IU, 2012 Liljeblad Cultural Anthropology Book Award, BSU, 2007 Eagle Scout Award, Boy Scouts of America, 2003

Workshops

Field-site Management. Max Planck Institute for Evolutionary Anthropology, Department of Human Behavior, Ecology and Culture. Leipzig, Germany. June 2018.

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Professional Affiliations

American Anthropological Association - Evolutionary Anthropology Society*
American Association of Physical Anthropologists
Cultural Evolution Society*
Human Behavior and Evolution Society
Human Biology Association
European Human Behaviour and Evolution Association
*current membership

Service

AAPA Program Committee, 2019 AAPA Program Committee, 2018 HBA Student Awards Committee, 2018

Ad-hoc Refereeing

Adaptive Human Behavior and Physiology, American Journal of Human Biology, Annals of Human Biology, Biological Reviews, Evolutionary Human Sciences, Hormones and Behavior, Human Nature, International Journal of Primatology, Psychoneuroendocrinology, Scientific Reports

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