

#### ASSISTANT PROFESSOR

DEPARTMENT OF ANTHROPOLOGY, UNIVERSITY OF MISSOURI

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### **Positions**

University of Missouri

Assistant Professor, Department of Anthropology

2019-

University of California, Los Angeles

• Postdoctoral Scholar, Center for Behavior, Evolution, and Culture

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

- **Prall SP**, Scelza BA. In press. The dietary impacts of drought in a traditional pastoralist economy. *American Journal of Human Biology*.
- **Prall SP**, Scelza BA. 2022. The effect of mating market dynamics on partner preference and relationship quality among Himba pastoralists. *Science Advances* 8(18):eabm5629.
- Starkweather KE, Keith MH, **Prall SP**, Alam N, tuz Zohora F, Thompson ME. 2021. Are fathers a good substitute for mothers? Paternal care and growth rates in Shodagor children. *Developmental Psychobiology* 63(6):e22148.
- Scelza BA, **Prall SP**, Starkweather KE. 2021. The role of spousal separation on norms related to gender and sexuality among Himba pastoralists. *Social Sciences* 10(5):174.
- **Prall SP**, Scelza BA. 2020. Resource demands reduce partner discrimination in Himba women. *Evolutionary Human Sciences* 2:E45 1-29.
- Broesch T, Crittenden AN, Beheim BA, Blackwell AD, Bunce JA, Colleran H, Hagel K, Kline M, McElreath R, Nelson RG, Pisor AC, Prall SP, Pretelli I, Purzycki B, Quinn EA, Ross C, Scelza B, Starkweather K, Stieglitz J, Borgerhoff-Mulder M. 2020. Navigating cross-cultural research: methodological and ethical considerations. Proceedings of the Royal Society B 287(1935): 20201245.
- Scelza BA, Atkinson E, **Prall SP**, McElreath R, Sheehama J, Henn BM. 2020. The ethics and logistics of field-based paternity studies. *Evolutionary Human Sciences* 2:E22 1-19.
- **Prall SP**, Scelza BA. 2020. Why men invest in non-biological offspring: Paternal care and paternity confidence among Himba pastoralists. *Proceedings of the Royal Society B* 287(1922): 20192890.
- Scelza BA, **Prall SP**, Swinford N, Gopalan S, Atkinson E, McElreath R, Sheehama J, Henn BM. 2020. High rate of extra-pair paternity in a human population demonstrates diversity in human reproductive strategies. *Science Advances* 6(8):eaay6195.
- Scelza BA, **Prall SP**, Starkweather K. 2020. Paternity and social obligations explain men's allocations to romantic partners in an experimental giving game. *Evolution and Human Behavior* 41:96-103.

- 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. 2020. Patterns of paternal investment predict cross-cultural variation in jealous response. *Nature Human Behaviour* 4:20-26.
- Scelza BA, **Prall SP**, Levine N. 2019. The disequilibrium of double descent: changing inheritance norms among Himba pastoralists. *Philosophical Transactions of the Royal Society B* 374:20180072.
- **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. 2015. Dehydroepiandrosterone and multiple measures of functional immunity in young adults. *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, p. 125-144.
- **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.

#### PAPERS IN PREP

• Swinford NA, **Prall SP**, Williams CM, Sheehama, Scelza BA, Henn BM. In review. Increased homozygosity due to endogamy results in fitness consequences in a human population.

- Scelza BA, **Prall SP**. In review. Only death will separate us: the role of extramarital partnerships when concurrency is common.
- Gallagher B, Swinford NA, Sheehama J, **Prall SP**, Scelza BA, Henn BM. In review. No evidence of inbreeding depression on height within an endogamous Namibian population.

## **Presentations**

#### CONFERENCE PRESENTATIONS AND PUBLISHED ABSTRACTS

- **Prall SP**, Scelza B. 2022. Mating market dynamics on partner preference and relationship quality among Namibian agro-pastoralists. *European Human Behavior and Evolution Association Conference*.
- **Prall SP**, Scelza B. 2022. The causes and consequences of women's status in Himba pastoralists. *American Journal of Biological Anthropology* 177(S73):147.
- Scelza B, **Prall SP**. 2022. Hidden Kin: the role of extramarital partners in the lives of Himba women. *American Journal of Biological Anthropology* 177(S73):161.
- Swinford N, **Prall SP**, Scelza B, Henn B. 2022. Increased homozygosity due to endogamy results in fitness consequences in a human population. *American Journal of Biological Anthropology* 177(S73):177.
- **Prall SP**, Scelza B. 2021. Effects of paternity and concurrency on the length of interbirth intervals in Himba women. *American Anthropological Association Annual Meeting*. Baltimore, MD.
- Starkweather K, Keith M, **Prall SP**, Alam N, Thompson ME. 2021. Paternal care and growth rates in Shodagor children. *American Journal of Human Biology* 33(S1):42.
- **Prall SP**, Scelza B, Trumble B. 2020. Androgen dynamics and reproductive socioecology in Himba Pastoralists. *American Journal of Human Biology* 32(S1):45.
- Scelza B, **Prall SP**. 2020. The value of concurrency: the multimodal effects of romantic partnerships on women's health and well-being. *American Journal of Human Biology* 32(S1):51.
- **Prall SP**, Scelza B. 2019. The reputational benefits of social fatherhood. *American Anthropological Association Annual Meeting*. Vancouver, BC.
- **Prall SP**, 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 SP**, 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 SP**, 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 SP**, 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 SP**, 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 SP**, Scelza B. 2017. Characterizing perceptions of food insecurity in Himba women. *American Anthropological Association Annual Meeting*. Washington DC.
- **Prall SP**, Scelza B. 2017. Cross-cultural perceptions of jealousy. *Human Behavior and Evolution Society Annual Meeting*. Boise, ID.
- **Prall SP**, Scelza B. 2017. Fosterage and paternity uncertainty on childhood health and growth in Himba pastoralists. *California Workshop on Evolutionary Social Science*. 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 SP**, 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.
- 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 SP**, Fuller G, Raghanti MA. 2012. Fecal glucocorticoid responses in wild orangutans following human visitation. *American Journal of Physical Anthropology* 147(S54):219.
- **Prall SP**, 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 SP**, 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 SP**, and Chester E. 2011. Development of a noninvasive salivary measure of functional immunity in humans. *American Journal of Human Biology* 23:267.

#### **INVITED PRESENTATIONS**

- •2022. University of Namibia, Oshakati, Namibia.
- •2022. Department of Anthropology, University of California, Santa Barbara.
- •2022. Evolutionary Anthropology Spring Colloquium Series, University of California, Davis.
- •2022. Anthropology Department Colloquium Series, University of Missouri.
- •2020. Focus on Africa Series, MU African Interdisciplinary Studies Hub, University of Missouri.
- •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-current - Kunene Rural Health and Demography Project, Kuenene Region, Namibia

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

2009 & 2011 - Sabah Ecohealth Project, Sandakan, Malaysia

Two 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 season of bio-archaeology field school at Cave's Branch Rockshelter.

## **Teaching Experience**

### University of Missouri

- Introduction to Anthropology
- Outbreaks and the Anthropology of Emerging Disease
- Evolution of Human Sexuality
- Evolutionary Medicine
- Comparative Social Organization

#### New Mexico State University

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

### Indiana University, Bloomington

- Introduction to Bioanthropology
- Human Anatomy Lab
- Human Physiology Lab
- Biology Laboratory

## 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
- Blood borne Pathogen, Chemical, and Bio safety Level II Training
- R statistical software, Bayesian statistics, Filemaker database software
- Intermediate Spanish, basic Otjiherero

#### Awards

- Early Career Fellowship. Energetics in Anthropology Workshop, Duke University. 2022.
- 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\_

- Energetics in Anthropology Workshop, Duke University. May 2022.
- Professional Grant Development Workshop. Grant Training Center. April 2021.
- Economic Network Dynamics of Wealth and Inequality. Santa Fe Institute. February 2020.
- Field-site Management. Max Planck Institute for Evolutionary Anthropology, Department of Human Behavior, Ecology and Culture. Leipzig, Germany. June 2018.

## Professional Affiliations \_\_\_\_\_

- American Anthropological Association Evolutionary Anthropology Society
- American Association of Biological Anthropologists\*
- Cultural Evolution Society
- Human Behavior and Evolution Society
- Human Biology Association
- European Human Behaviour and Evolution Association\*

\*current membership

### Service

#### EXTRAMURAL SERVICE

- AAPA Program Committee, 2018, 2019, 2020, 2022
- HBA Student Awards Committee, 2018

#### INTRAMURAL SERVICE

- Member of the Department of Anthropology Committee for Undergraduate Studies, Curriculum, Development, Communications, and Space. 2019 current
- Anthropology Undergraduate Association Faculty Liaison. 2020-current
- Committee Member for Cole Tobin (MA, in progress) & Kyle Clark (PhD 2021).

#### **AD-HOC REFEREEING**

Adaptive Human Behavior and Physiology, American Journal of Human Biology, Annals of Human Biology, Biological Reviews, Evolutionary Anthropology, Evolutionary Human Sciences, Evolution and Human Behavior, Hormones and Behavior, Human Nature, Impact in Agricultural and Life Sciences, International Journal of Primatology, Nature Human Behaviour, Oxford University Press, Psychoneuroendocrinology, Routledge Anthropology, Scientific Reports, Social Sciences, Social Science & Medicine