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ACADEMIC EXPERIENCE & EDUCATION

Duke University, Durham, NC, USA

- Postdoctoral Fellow, Department of Evolutionary Anthropology, Duke University Population Research Institute, Duke Center for Aging, 06/2012-present
 - Focus 1: Social stress, social relationships, and gene regulation in rhesus macaques.
 - Focus 2: Methods for genomic-scale sequencing from low-quality, fecal-derived samples.
 - Advisor: Jenny Tung

University of Pennsylvania, Philadelphia, PA, USA

- Ph.D., Department of Psychology, 05/2012
 - Dissertation: Kinship and cooperation in the multi-level society of geladas
 - Advisors: Robert Seyfarth, Dorothy Cheney, Thore Bergman, Susan Alberts
- M.A., Department of Psychology, 05/2008
 - Thesis: Developmental ecology of acoustic sensitivities in juvenile cowbirds
 - Advisors: Robert Seyfarth & David J. White
- B.A., Department of Psychology, 05/2007
 - Thesis: Innate recognition of conspecific vocalizations in brood-parasitic cowbirds
 - Advisors: Robert Seyfarth & David J. White

AWARDS, FELLOWSHIPS, & GRANTS

- **NIH** Pathway to Independence Award (K99AG051764), \$236,450 direct costs; 2016-
- **NIH** Postdoctoral Fellowship Duke Center for Study of Aging (T32AG000029); 2015
- **NSF** Office of Multidisciplinary Studies Postdoctoral Fellowship (SMA-1306134), \$199,449 direct costs; 2013-2015
- **NIH** NRSA Postdoctoral Fellowship (F32) – 7th percentile – declined for NSF fellowship; 2013
- **NIH** Postdoctoral Fellowship, Duke University Population Research Institute (T32); 2012-2013
- Animal Behavior Society Warner Clyde Allee Competition for best dissertation, Runner-up, 2012
- **NSF** Graduate Research Fellowship; 2008-2012
- **NSF** Doctoral Dissertation Improvement Grant in Physical Anthropology, \$19,500 (BCS-0962118); 2010
- **L.S.B. Leakey** Foundation General Grant, \$11,024; 2010
- Teece Family Foundation Award, \$5,000; 2009
- Norman Anderson Graduate Student Fund Award, \$2,500; 2008
- Milstein Family Undergraduate Research Grant, \$1,000; 2007

PUBLICATIONS

- Snyder-Mackler N***, Sanz J*, Kohn JN, Brinkworth JF, Morrow S, Shaver AO, Grenier J-C, Pique-Regi R, Johnson ZP, Wilson ME, Barreiro LB, Tung J. (2016) "Social status alters immune regulation and response to infection in macaques" *Science*, 354:6315, 1041-1045, doi: 10.1126/science.aah3580. *co-first author
- Kohn JN, **Snyder-Mackler N**, Barreiro LB, Johnson ZP, Tung J, Wilson ME (2016) "Dominance rank causally affects personality and glucocorticoid regulation in female rhesus macaques" *Psychoneuroendocrinology*, 74, 179-188, doi: 10.1016/j.psyneuen.2016.09.005
- Wall JD, Schlebusch SA, Alberts SC, Cox L, **Snyder-Mackler N**, Nevenon K, Carbone L, Tung J (2016) "Genome-wide ancestry and divergence patterns from low-coverage sequencing data reveal a complex history of admixture in wild baboons" *Molecular Ecology*, 25:14, 3469-3483, doi: 10.1111/mec.13684.
- Snyder-Mackler N**, Majoros B, Yuan ML, Shaver AO, Gordon JB, Kopp GH, Schlebusch SA, Wall JD, Alberts SC, Mukherjee S, Zhou S, Tung J (2016) "Efficient genome-wide sequencing and low coverage pedigree analysis from non-invasively collected samples." *Genetics*, 203:2, 699-714, doi: 10.1534/genetics.116.187492.
- Charruau P, Johnston R, Stahler DR, Lea AJ, **Snyder-Mackler N**, Smith DW, vonHoldt BM, Cole SW, Tung J, Wayne RK (2016) "Pervasive effects of aging on gene expression in wild wolves" *Molecular Biology and Evolution*, 33:8, 1967-1978, doi: 10.1093/molbev/msw072.
- Snyder-Mackler N**, Kohn JN, Barreiro LB, Johnson ZP, Wilson ME & Tung J (2016) "Social status drives social relationships in groups of unrelated female rhesus macaques" *Animal Behaviour*, 111, 307-317, doi: 10.1016/j.anbehav.2015.10.033.
- Snyder-Mackler N**, Alberts, SC & Bergman TJ (2014) "The socio-genetics of a complex society: Female gelada monkey relatedness patterns mirror association patterns in a multi-level society" *Molecular Ecology*, 23:24, 6179-6191, doi: 10.1111/mec.12987.
- Snyder-Mackler N**, Somel M & Tung J (2014) – "Shared signatures of social stress and aging in PBMC gene expression profiles." *Aging Cell*, 13:5, 954-957, doi: 10.1111/accel.12239.
- Tinsley Johnson E*, **Snyder-Mackler N***, Beehner JC & Bergman TJ (2014) "Kinship and dominance rank influence the strength of social bonds in female geladas" *International Journal of Primatology*, 35:1, 288-304, doi: 10.1007/s10764-013-9733-5. *co-first author
- Scheider-Crease I*, **Snyder-Mackler N***, Jarvey JC & Bergman TJ (2013) "Molecular identification of *Taenia serialis* coenurosis in a wild Ethiopian gelada (*Theropithecus gelada*)" *Veterinary Parasitology*, 198:1-2, 240-243, doi: 10.1016/j.vetpar.2013.08.015. *co-first author
- Le Roux A, **Snyder-Mackler N**, Roberts EK, Beehner JC & Bergman TJ (2013) "Evidence for tactical concealment in a wild primate" *Nature Communications*, 4:1462, doi: 10.1038/ncomms2468. PMID: 23403563
- Snyder-Mackler N**, Alberts SC & Bergman TJ (2012) "Concessions of an alpha male: Cooperative reproductive transactions in a polygynous primate" *Proceedings of the Royal Society B: Biological Sciences*, 279:1743, 3788-3795. doi: 10.1098/rspb.2012.0842. PMID: 22764162

Pappano DJ*, **Snyder-Mackler N***, Bergman TJ & Beehner JC (2012) “Social predators in a multi-level society” *Animal Behaviour*, 84:3, 653-658, doi: 10.1016/j.anbehav.2012.06.021.

*co-first author

Snyder-Mackler N, Beehner JC & Bergman TJ (2012) “Defining higher levels in the multilevel societies of geladas (*Theropithecus gelada*)” *International Journal of Primatology* – 33:5, 1054:1068. doi: 10.1007/s10764-012-9584-5

Gersick AS, **Snyder-Mackler N** & White DJ (2012) “Ontogeny of social skills: social complexity improves mating and competitive strategies in male brown-headed cowbirds” *Animal Behaviour*, 83:5, 1171–1177. doi: 10.1016/j.anbehav.2012.02.005.

White DJ, Gersick AS & **Snyder-Mackler N** (2012) “Social networks and the development of social skills in cowbirds.” *Philosophical Transactions of the Royal Society of London B: Biological Sciences*, 367:1597, 1892-1900. doi: 10.1098/rstb.2011.0223. PMID: 22641827

Snyder-Mackler N & White DJ (2011). “The developmental ecology of acoustic sensitivities: reactions to song playbacks by male cowbirds change across their first year of life.” *Behaviour*, 148:7, 747-764. doi: 10.1163/000579511X575951

White DJ, Gersick AS, Freed-Brown SG & **Snyder-Mackler N** (2010). “The ontogeny of social skills: experimental increases in social complexity enhance reproductive success in adult cowbirds.” *Animal Behavior*, 79:2, 385-390. doi: 10.1016/j.anbehav.2009.11.014