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Arizona State University
Center for Evolution and Medicine
School of Life Sciences

ACADEMIC APPOINTMENTS

2025-	Professor, School of Life Sciences, Arizona State University
2023-2025	Associate Professor, School of Life Sciences, Arizona State University
2020-	Core Faculty, Center for Evolution and Medicine, Arizona State University
2020-	Adjunct Faculty, School of Human Evolution and Social Change, Arizona State University
2021-	Affiliate Faculty, Neurodegenerative Disease Research Center, Arizona State University
2020-2022	Assistant Professor, School of Life Sciences, Arizona State University
2017-2019	Assistant Professor, Department of Psychology, University of Washington.
2019-2020	Adjunct Assistant Professor, Department of Biology, University of Washington.
2017-2019	Research Affiliate, Center for Studies in Demography & Ecology, University of Washington.
2017-2019	Research Affiliate, Washington National Primate Research Center, University of Washington.
2012-2017	Postdoctoral Fellow and Senior Research Scientist, Department of Evolutionary Anthropology, Duke University Population Research Institute, Duke Center for Aging.

EDUCATION

2012	Ph.D., Psychology, University of Pennsylvania
2008	M.A., Psychology, University of Pennsylvania
2007	B.A., Psychology, University of Pennsylvania

GRANT FUNDING

Current

Award	Years	Role	Total Costs to Snyder-Mackler
NIH “Causes, Consequences, and Modifiers of Heterogeneity in Aging in a Naturalistic Nonhuman Primate Model” (U19AG902410)	2026-2031	MPI (contact PI)	$15,851,186
NIH “The Dog Aging Project: Genetic and Environmental Determinants of Healthy Aging in Companion Dogs” (U19AG057377; renewal)	2026-2031	Co-I	$1,683,258
NIH “Social Modifiers of Primate Lifespan” (R01AG087902)	2024-2029	MPI	$1,858,753
Hevolution/AFAR New Investigator Awards in Aging Biology and Geroscience Research	2025-2027	PI	$375,000
NIH “Research Network on Animal Models to Understand Social Dimensions of Aging” (R24AG065172)	2024-2029	MPI	$348,219
NIH “Impacts of hurricanes and social buffering on biological aging in a free-ranging animal model” (R01AG084706)	2023-2028	MPI	$1,586,331
NIH “Neurogenomics of Vulnerability and Resilience to Mental Health Syndromes in Response to Extreme Life Events” (RF1MH118203)	2026-2029	MPI	$321,916
NIH “Functionally guided adult whole brain cell atlas in human and NHP” (UM1MH130981)	2022-2027	Co-I	$699,000

Completed

Award	Years	Role
NSF "Collaborative Research: An integrative approach to understanding variation in patterns of aging in primates" (SBE-2235565)	2023-2026	PI
NIH "Social Modifiers of the Pace of Aging" (R01AG060931)	2019-2025	MPI
NIH "The Dog Aging Project: Genetic and Environmental Determinants of Healthy Aging in Companion Dogs" (U19AG057377)	2018-2024	Co-I
NIH "Neurogenomics of Vulnerability and Resilience" (R01MH118203)	2019-2024	Co-I
NSF "Functional genomics of high-altitude adaptation in a nonhuman primate model" (SBE-2010309)	2019-2024	PI
NIH "Effects of a major natural disaster on the pace of aging in a nonhuman primate model" (R56AG071023)	2021-2022	MPI
NIH "Single cell transcriptional and epigenomic atlas of the macaque brain across the lifespan" (U01MH121260)	2019-2023	MPI
NIH "Gene regulatory analysis of social integration and resilience during aging" (R00AG051764)	2017-2022	PI
NSF "Collaborative Research: Physiological signatures of weaning in a wild primate" (SBE-1723228)	2017-2021	PI
UW Royal Research Fund	2018-2019	PI
UW Student Technology Fee resource grant	2018	PI

PUBLICATIONS

Key: **Snyder-Mackler lab members in bold**
*equal contribution
**corresponding
[P]Snyder-Mackler lab postdocs
[G]Snyder-Mackler lab graduate students
[U]Snyder-Mackler lab undergraduate students
[C]Students for whom I was a committee member

114. **Mariner BL[P]*, McCoy BM[G]*, Greenier A[G], Brassington L[G], Slikas E, Adjangba C**, Marye A, Harrison BR, Bamberger T, Algavi Y, Muller E, Harris A, Rout E, Dog Aging Project Consortium, Avery A, Borenstein E, Promislow D, **Snyder-Mackler N**** (in press) "Epigenetic Aging and Transposon Dysregulation Reflect Size-related Lifespan Compression in Dogs", *Science*.

113. Yang W*, **Watkins KL[G]***, DeCasien AR, O'Neill MB, Bohlen MO, O'Day DR, Duran M, Qiu C, Meleshko A, Vo A, **Menke M[U]**, Calderon D, Cayo Biobank Research Unit, Sallet J, Higham JP, Martínez MI, Trapnell C, Starita LM, Montague MJ, Platt ML**, Chiou KL**, Shendure J**, **Snyder-Mackler N**** (in press) "Single-cell, multi-region profiling of the macaque brain across the lifespan", *Cell*, preprint doi: 10.1101/2025.10.31.685880

112. **Sadoughi B[P]***, Petersen R*, Patterson SK, **Slikas E, Adjangba C**, Ryan N, **Costa CE[G], Newman LE[G], Watowich MM[G], Kelsey CR[G], Greenier A[G],** Goldman EA, **Negrón-Del Valle JE, Phillips D,** Thompson I, Surratt SEB, González O, Compo N, Burgos A, Cayo Biobank Research Unit, DeCasien AR, Chiou KL, Walker CS, Lambides AVR, Martínez MI, Sterner KN, Brent LJN, Higham JP, Montague MJ, Platt ML, **Snyder-Mackler N**,** Lea AJ** (2026) "Age and early life adversity shape heterogeneity of the epigenome across tissues in macaques", *Science*, doi: 10.1126/science.aea4922

111. Gnanadesikan GE, Bray EE, Levy KM, Horschler DJ, Hargrave S, Douglas LE, Kennedy BS, Watowich MM, **Snyder-Mackler N**, MacLean EL (2026) "Characterizing the heritability of cognitive and behavioural traits across development in domestic dogs", Royal Society Open Science, doi: 10.1098/rsos.241918

110. Feder JA, Alberts SC, Archie EA, Arlet ME, Baniel A, Beehner JC, Bergman TJ, Carter AJ, Charpentier MJ, Chiou KL, Crockford C, Cowlishaw G, Dal Pesco F, Fernandez D, Fischer J, Higham JP, Huchard

E, Le Floch A, Lehmann J, Lu A, McCabe G, Mielke A, Mubemba B, Petersdorf M, Ross C, Schneider-Crease IA, Seyfarth RM, **Snyder-Mackler N**, Swedell L, Trede F, Tung J, Weyher AH, Wittig R, Kamilar JM, Silk JB (2026) "Disparate social structures are underpinned by distinct social rules across a primate radiation", PNAS, doi: 10.1073/pnas.2520774123

109. Saroff MJ, Kraberger S, Olivo D, Lemma A, Ayele F, **Abebe B[G]**, Kebede F, Chiou KL, **Snyder-Mackler N**, Schneider-Crease IA, Varsani A (2026)"Diverse anelloviruses identified in wild geladas (Theropithecus gelada)", *Archives of Virology*, doi: 10.1007/s00705-026-06651-z

108. Petersen RM, Patterson SK, Widdig A, Turcotte CM, Antón SC, Williams SA, Romero AN, Bauman Surratt SE, Ruiz Lambides AV, Cayo Biobank Research Unit, Montague MJ, **Snyder-Mackler N,** Brent LJN, Higham JP, Lea AJ (2026) "Early life adversity shapes life history trade-offs between growth and reproduction in free-ranging rhesus macaques", *PNAS*, doi: 10.1073/pnas.2524909123

107. **Scott BR[G]**, Ayele F, Lemma A, Moges A, Abebe B, **Greenier A, Slikas E,** Blackwell M, Becker K, Stoltzmann M, **Sadoughi B[P]**, Johann A, Brüning N, Haile AA, Kebede F, Joka FR, Guarracino A, Mekonnen A, Hindle A, Beehner JC, Schneider-Crease IA, Lu A, Bergman TJ, Chiou KL, **Snyder-Mackler N**** (2026) "Genomic and cytogenetic evidence for divergence and speciation in geladas", *Genome Biology*, doi: 10.1186/s13059-026-04143-6

106. Metcalf CJE**, Anderson RM, Hochberg ME, Masel J, Moorad J, Promislow DEL, Tuljapurkar S, **Snyder-Mackler N**** (2026) "How and why does aging occur? Updating evolutionary theory to meet a new era of data", *Evolution, Medicine, and Public Health*, 2026, doi: 10.1093/emph/eoaf040

105. Bamberger T, Muller E, Algavi YM, **Greenier A[G], Adjangba C, Slikas E**, **Brassington L, Mariner B[P], McCoy B[G]**, Harrison BR, Partida-Aguilar M, Marye A, Harris A, Rout E, DAP Consortium, Avery A, Promislow DE, **Snyder-Mackler N**, Borenstein E (2026) "Mapping the canine microbiome: Insights from the Dog Aging Project", *Nature Communications*. doi: 10.1038/s41467-026-73193-y

104. Abusheikha AJ, Johnson CSC, **Snyder-Mackler N**, Zimmerman KD, Frye BM, Shively CA, Register TC (2026) "Mediterranean versus western diet effects on obesity phenotypes and adipose tissue transcriptional profiles in female monkeys", *Obesity*, doi: 10.1002/oby.70121

103. **Sadoughi B[P]**, Hernández-Rojas R, Hamou H, Lopez R, Mah M, **Slikas E**, Simmons S, Orkin JD, Higham JP, Brosnan SF, Jack KM, Campos FA, **Snyder-Mackler N****, Melin AD** (2026) "Non-invasive measures of DNA methylation capture molecular aging in wild capuchin monkeys", *Molecular Ecology*, doi: 10.1111/mec.70468

102. Patterson SK, Godoy I, **Snyder-Mackler N**, Higham JP, Brent LJN (2026) "Primate Aging, Health, and Social Relationships", *Annual Review of Anthropology*, doi: 10.1146/annurev-anthro-041224-025204

101. Harrison BR, Partida-Aguilar M, Marye A, Djukovic D, Kauffman M, Dunbar MD, **Mariner BL[P]**, **McCoy BM[G]**, Algavi YM, Muller E, Baum S, Bamberger T, Raftery D, Creevy KE, Dog Aging Project Consortium, Avery A, Borenstein E, Snyder-Mackler N, Promislow DEL (2025). “Protein Catabolites as Blood-Based Biomarkers of Aging Physiology: Findings From the Dog Aging Project.” *Aging Cell*. doi: 10.1111/acel.70226

100. Pavez-Fox MA, Siracusa ER, Ellis S, Kimock CA, Rivera-Barreto N, Negron-Del Valle JE, Phillips D, Ruiz-Lambides A, **Snyder-Mackler N,** Higham JP, De Moor D, Brent LJN (2025). “Socioecological drivers of injuries and aggression in female and male rhesus macaques (Macaca mulatta).” *Behavioral Ecology and Sociobiology* 79, 47. doi: 10.1007/s00265-025-03587-3

99. Prescott J, Keyser AJ, Litwin P, Dunbar MD, McClelland R, Ruple A, Ernst H, Butler BL, Kauffman M, Avery A, Harrison BR, Partida-Aguilar M, **McCoy BM[G], Slikas E, Greenier AK,** Muller E, Algavi YM, Bamberger T, Creevy KE, DAP Consortium, Borenstein E, **Snyder-Mackler N**, Promislow DEL (2025) “Rationale and design of the Dog Aging Project precision cohort: a multi-omic resource for longitudinal research in geroscience.” *GeroScience*. doi: 10.1007/s11357-025-01571-3

98. Crist RC, Chehimi SN, Divakaran SS, Montague MJ, Tremblay S, **Snyder-Mackler N**, Bohlen MO, Chiou KL, Zintel TM, Cayo Biobank Research Unit, Platt ML, Juul H, Silvestri G, Hayes MR, Kolson DL, Reiner BC (2025). “SIV infection induces alterations in gene expression and loss of interneurons in Rhesus Macaque frontal cortex during early systemic infection.” *Translational Psychiatry* 15, 38. doi: 10.1038/s41398-025-03261-2

97. Feder J, Schneider-Crease IA, Beehner JC, Bergman TJ, Seyfarth RM, Silk JB, **Snyder-Mackler N**, Lu A (2025) “Female reproductive ageing persists despite high infanticide risk in chacma baboons and geladas.” *Royal Society Open Science*. doi: 10.1098/rsos.241210

96. Freudiger A, Jovanovic VM, Huang Y, **Snyder-Mackler N**, Conrad DF, Miller B, Montague MJ, Westphal H, Stadler PF, Bley S, Horvath JE, Brent LJN, Platt ML, Ruiz-Lambides A, Tung J, Nowick K, Ringbauer H, Widdig A (2025). “Taking identity-by-descent analysis into the wild: Estimating realized relatedness in free-ranging macaques” *Proceedings of the National Academy of Sciences*. preprint: 10.1101/2024.01.09.574911 doi: 10.1073/pnas.2401106122

95. Patterson, SK, Andonov E, Arre AM, Martínez MI, Negron-Del Valle JE, Petersen RM, Phillips D, Rahman A, Ruiz-Lambides A, Villaneuva I, Lea AJ, **Snyder-Mackler N**, Brent LJN, Higham JP (2024). “Early life adversity has sex-dependent effects on survival across the lifespan in rhesus macaques”. *Philosophical Transactions of the Royal Society B,* 379:1916, doi: 10.1098/rstb.2022.0456

94. Siracusa ER, Pavez-Fox MA, Negron-Del Valle JE, Phillips D, Platt ML, **Snyder-Mackler N**, Higham JP, Brent LJN, Silk MJ (2024). “Social ageing can protect against infectious disease in a group-living primate”. *Philosophical Transactions of the Royal Society B,* 379:1916, doi: 10.1098/rstb.2022.0462

93. Campos FA, Wikberg EC, Orkin JD, Park Y, **Snyder-Mackler N**, Cheves Hernandez S, Lopez Navarro R, Fedigan LM, Gurven M, Higham JP, Jack KM, Melin AD (2024). “Wild capuchin monkeys as a model system for investigating the social and ecological determinants of ageing”. *Philosophical Transactions of the Royal Society B,* 379:1916, doi: 10.1098/rstb.2023.0482

92. Bartolomucci A, Kane AE, Gaydosh L, Razzoli M, **McCoy BM[G]**, Ehninger D, Chen BH, Howlett SE, **Snyder-Mackler N** (2024). “Animal Models Relevant for Geroscience: Current Trends and Future Perspectives in Biomarkers, and Measures of Biological Aging.” *The Journals of Gerontology: Series A*, 79:9, glae135, doi: 10.1093/gerona/glae135

91. Cooper EB, Brent LJN, **Snyder-Mackler N**, Higham JP (2024). “Demography and climate influence sex-specific survival costs of reproduction over 60 years in a free ranging primate population.” *Oikos* doi: 10.1111/oik.10624

90. **Watowich MM[G],** Costa CE[C], **Chiou KL[P]**, Petersen RM; Patterson SK, Martinez MI, Sterner KN Horvath JE, Montague MJ, Platt ML, Brent LJN, Higham JP, Lea AJ**, **Snyder-Mackler N**** (2024). “Immune gene regulation is associated with age and environmental adversity in a nonhuman primate.” *Molecular Ecology* doi: 10.1111/mec.17445

89. Costa CE[C], **Watowich MM[G]**, Goldman EA, Sterner KN, Negrón-Del Valle JE, Phillips D; Cayo Biobank Research Unit, Platt ML, Montague MJ, Brent LJN, Higham JP, **Snyder-Mackler N****, Lea AL** (2024). “Genetic architecture of immune cell DNA methylation in the rhesus macaque.” *Molecular Ecology* doi: 10.1111/mec.17576.

88. DeCasien AR*,[C]**, Chiou KL*,[P],** Testard C, **Mercer A[U]**, Negrón-Del Valle JE, Bauman Surratt SE, González O, Stock MK, Ruiz-Lambides AV, Martínez MI, Cayo Biobank Research Unit, Antón SC, Walker CS, Sallet J, Wilson MA, Brent LJN, Montague MJ, Sherwood CC, Platt ML, Higham JP**, **Snyder-Mackler N**.** “Evolutionary and biomedical implications of sex differences in the primate brain transcriptome” *Cell Genomics* doi: 10.1016/j.xgen.2024.100589

87. Testard C, Shergold C, Acevedo-Ithier A, Hart J, Bernau A, Negrón-Del Valle JE, Phillips D, **Watowich MM[G],** Sanguinette-Scheck JI, Montague MJ, **Snyder-Mackler N**, Higham JP, Platt ML, Brent LJN (2024). “Rapid environmental change alters the adaptive benefits of sociality in a primate.” *Science*, doi: 10.1126/science.adk0606.

86. Frye BM*, Negrey JD*, **Johnson CSC[G]**, Kim J, Barcus RA, Lockhart SN, Whitlow CT, **Chiou KL[P]**, **Snyder-Mackler N**, Montine TJ, Craft S, Shively CA, Register TC (2024). “Mediterranean diet protects against a neuroinflammatory cortical transcriptome: Associations with brain volumetrics, peripheral inflammation, social isolation, and anxiety in nonhuman primates (Macaca fascicularis).” *Brain, Behavior, and Immunity.* doi: 10.1016/j.bbi.2024.04.016

85. Pavez-Fox MA, Escabi-Ruiz CM, Hard JDA, Negron-Del Valle JE, Phillips D, Ruiz-Lambides A, Bauman SE, Martinez MI, Montague MJ, Platt ML, Higham JP, **Snyder-Mackler N**, Brent LJN (2024). “Trade-offs between sociality and gastrointestinal parasite infection in the context of a natural disaster” *Animal Behaviour*. doi: 10.1016/j.anbehav.2024.03.002.

84. Turcotte CM, Choi AM, Spear JK, Hernandez-Janer EM, Dickinson E, Taboada HG, Stock MK, Villamil CI, Bauman SI, Cayo Biobank Research Unit, Martinez MI, Brent LJN, **Snyder-Mackler N,** Montague MJ, Platt ML, Williams SA, Antón SC, Higham JP (2024). "Mechanical and morphometric approaches to body mass estimation in rhesus macaques: A test of skeletal variables*." American Journal of Biological Anthropology, e24901*. doi: 10.1002/ajpa.24901

83. Turcotte CM, Choi AM, Spear JK, Hernandez-Janer EM, Taboada HG, Stock MK, Villamil CI, Bauman SI, Cayo Biobank Research Unit, Martinez MI, Brent LJN, **Snyder-Mackler N,** Montague MJ, Platt ML, Williams SA, Higham JP, Antón SC (2024). "Quantifying the relationship between bone and soft tissue measures within the rhesus macaques of Cayo Santiago." *American Journal of Biological Anthropology*, e24920. doi: 10.1002/ajpa.24920

82. Painter MC, Gustiston ML, **Snyder-Mackler N,** Tinsley Johnson E[C], Le Roux A, Bergman TJ (2024). "Acoustic variation and group level convergence of gelada, Theropithecus gelada, contact calls." *Animal Behaviour*, 207. doi: 10.1016/j.anbehav.2023.10.002

81. Jin K[C], **McCoy BM[G]**, Goldman EA, Usova V, Tkachev V, Chitsazan AD, Kakebeen A, Jeffery U, Creevy KE, Wills A, **Snyder-Mackler N****, Promislow DEL** (2024). "DNA methylation and chromatin accessibility predict age in the domestic dog." *Aging Cell,* e14079. doi: 10.1111/acel.14079

80. **Chiou KL[*,P]**, Huang X*, Bohlen MO, Tremblay S, DeCasien AR[C], O'Day DR, Spurrell CH, Gogate AA, **Zintel TM[P]**, Cayo Biobank Research Unit, Andrews MG, Martínez MI, Starita LM, Montague MJ, Platt ML**, Shendure J**, **Snyder-Mackler N**** (2023). "A single-cell multi-omic atlas spanning the adult rhesus macaque brain" *Science Advances*. preprint: 10.1101/2022.09.30.510346v1 doi: 10.1126/sciadv.adh1914

79. **Sanchez Rosado MR[G]**, Marzan-Rivera N, **Watowich MM[G]**, Negron-Del Valle AD, Pantoja P, Pavez-Fox MA, Siracusa ER, Cooper EB, Negron-Del Valle JE, Phillips D, Ruiz-Lambides A, Cayo Biobank Research Unit, Martinez MI, Montague MJ, Platt ML, Higham JP, Brent LJN, Sariol CA, **Snyder-Mackler N* (**2023). "Immune cell composition varies by age, sex and exposure to social adversity in free-ranging Rhesus Macaques." *GeroScience* preprint: 10.1101/2021.12.06.471383 doi: 10.1007/s11357-023-00962-8

78. Newman LE[*,C], Testard C*, DeCasien AR[C], **Chiou KL[P], Watowich MM[G]**, Janiak MC, Pavez-Fox MA, **Sanchez Rosado MR[G]**, Cooper EB, Costa CE[C], Petersen RM, Montague MM, Platt ML**, Brent LJN**, **Snyder-Mackler N****, Higham JP** (2023). "The biology of aging in a social world: insights from free-ranging rhesus macaques" *Neuroscience & Biobehavioral Reviews.* preprint: 10.1101/2023.01.28.525893v1, doi: 10.1016/j.neubiorev.2023.105424

77. Jarvey JC, Low BS, Haile AA, **Chiou KL[P]**, **Snyder-Mackler N**, Lu A, Bergman TJ, Beehner JC, Schneider-Crease IS (2023). "Aggression rates increase around seasonally exploited resources in a primarily grass-eating primate." *Behavioral Ecology*, arad079, doi: 10.1093/beheco/arad079

76. **Watowich MM[G], Chiou KL[P],** Graves B, Montague MJ, Brent LJN, Higham JP, Horvath JE, Lu A, Martinez MI, Platt ML, Schneider-Crease I, Lea AJ, **Snyder-Mackler N**** (2023). "Best practices for genotype imputation from low-coverage sequencing data in natural populations." *Molecular Ecology Resources*. doi: 10.1111/1755-0998.13854

75. Petersen SM, **Watowich MM[G],** Renner LM, Martin S, **Offenberg E[U],** Lea AJ, Montague MJ, Higham JP, **Snyder-Mackler N**, Neuringer M, Ferguson B (2023). "Genetic variants in melanogenesis proteins TYRP1 and TYR are associated with the golden rhesus macaque phenotype." *G3: Genes, Genomes, Genetics*. doi: 10.1093/g3journal/jkad168

74. Patterson SK*, Petersen RM, Brent LJN, **Snyder-Mackler N**, Lea AJ, Higham JP (2023). "Natural animal populations as models for understanding early life adversity effects on aging." *Integrative and Comparative Biology*, 63:3, doi: 10.1093/icb/icad058.

73. Shively CA, Frye BM, Negrey JD, **Johnson CSC[G]**, Sutphen CL, Molina AJA, Yadav H, **Snyder-Mackler N**, Register TC (2023). "The Interactive Effects of Psychosocial Stress and Diet Composition on Health in Primates." Neuroscience & Biobehavioral Reviews doi: 10.1016/j.neubiorev.2023.105320

72. Fernandes AG, Alexopoulos P, Burgos-Rodriguez A, Martinez MI, Cayo Biobank Research Unit, Ghassibi M, Leskov I, Brent LJN, **Snyder-Mackler N**, Danias J, Wollstein G, Higham JP, Melin AD (2023). "Age-related differences in ocular features of a naturalistic free-ranging population of rhesus macaques." *Investigative Ophthalmology and Visual Science*, 64:7 doi: 10.1167/iovs.64.7.3

71. Prater KE, Green KJ, Mamde S, Sun W, Cochois A, Smith CL, **Chiou KL[P]**, Heath L, Rose SE, Wiley J, Keene CD, Kwon RY, **Snyder-Mackler N**, Blue E, Logsdon B, Young JE, Shojaie A, Garden GA, Jayadev S (2023). "Human microglia show unique transcriptional changes in Alzheimer's disease." Nature Aging. doi: 10.1038/s43587-023-00424-y

70. **McCoy BM[G], Brassington L[G]**, Jin K[C], Dobly GA, Shrager S, Collins D, Dunbar M, Dog Aging Project Consortium, **Snyder-Mackler N**** (2023). "Social determinants of health and disease in companion dogs: A cohort study from the Dog Aging Project" Evolution, Medicine, and Public Health. preprint: 10.1101/2022.04.08.487645 doi: 10.1093/emph/eoad011
69. DeLacey PM[C], Sen S[C], Schneider-Crease I, **Chiou KL[P]**, Lemma A, Ayele F, Haile A, Lu A, Bergman TJ, Beehner JC, **Snyder-Mackler N**** (2023). "Vascularization underlies differences in sexually selected skin coloration in a wild primate." Molecular Ecology. preprint: 10.22541/au.167359516.63326414/v1, doi: 10.1111/mec.17026
68. Siracusa ER, Pereira AS, Bohr Brask J, Negron-Del Valle JE, Phillips D, Cayo Biobank Research Unit, Platt ML, Higham JP, **Snyder-Mackler N**, Brent LJN (2023). "Ageing in a collective: The impact of ageing individuals on social network structure." Philosophical Transactions of the Royal Society B, 78:20220061. preprint: 10.1101/2022.08.10.503309; doi: 10.1098/rstb.2022.0061
67. **Chiou KL[P]**, DeCasien AR[C], Rees KP, Testard C, Spurrell CH, Gogate AA, Pliner HA, Tremblay S, **Mercer A[U]**, Whalen CJ, Negron-Del Valle JE, Janiak MC, Bauman Surratt S, González O, Compo NR, Stock MK, Ruiz-Lambides AV, Martínez MI, Cayo Biobank Research Unit, Wilson MA, Melin AD, Antòn SC, Walker CS, Sallet J, Newbern JM, Starita LM, Shendure J, Higham JP, Brent LJN, Montague MJ, Platt ML, **Snyder-Mackler N**** (2022). "Multiregion transcriptomic profiling of the primate brain reveals signatures of aging and the social environment." Nature Neuroscience. doi: 10.1038/s41593-022-01197-0
66. **Schneider-Crease I[P]**, Feder JA, **Baniel A[P]**, McCann C, Haile AA, Abebe B, Fitzgerald L, Gomery MA, Simberloff RA, Petrie ZL, Gabriel P, Dorny P, Fashing PJ, Nguyen N, Bergman TJ, Beehner JC, **Snyder-Mackler N**, Lu A (2022). "Urinary neopterin reflects immunological variation associated with age, helminth parasitism, and the microbiome in a wild primate." Scientific Reports. doi: 10.1038/s41598-022-25298-9
65. Pavez-Fox MA, Kimock CM, Rivera-Barreto N, Negron-Del Valle JE, Phillips D, Ruiz-Lambides A, **Snyder-Mackler N**, Higham JP, Siracusa ER, Brent LJN (2022). "Reduced injury risk links sociality to survival in a group-living primate" *iScience*. doi: 10.1016/j.isci.2022.105454.
64. Siracusa ER, Negron-Del Valle JE, Phillips D, Platt ML, Higham JP, **Snyder-Mackler N**, Brent LJN (2022). "Within-individual changes reveal increasing social selectivity with age in rhesus macaques." *Proceedings of the National Academy of Sciences*. preprint: 10.1101/2022.05.31.494118; doi: 10.1073/pnas.2209180119
63. Cooper EB, **Watowich MM[G],** Beeby N, Whalen C, Montague MJ, Brent LJN, **Snyder-Mackler N**, Higham JP (2022). "Concentrations of urinary neopterin, but not suPAR, positively correlate with age in rhesus macaques." Frontiers in Ecology and Evolution, doi: 10.3389/fevo.2022.1007052.
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5. **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.
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INVITED COMMENTARIES

Chiou KL[P] and **Snyder-Mackler N** (2024). "Genetic Chimerism: Marmosets contain multitudes." *eLife* doi: 10.7554/eLife.97866

Belsky D and **Snyder-Mackler N** (2017). "Integrating Genomics and Social Epidemiology—Analysis of Late-Life Low Socioeconomic Status and the Conserved Transcriptional Response to Adversity." *American Journal of Epidemiology*, doi: 10.1093/aje/kwx145.

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Google Scholar Profile
NCBI My Bibliography

MENTORING

Postdoctoral Researchers

Past:

- Kenny Chiou: T32 fellow in the Shock Center for the Biology of Aging; NIH/NIA K99/R00 awardee (2017-2024)
    - Current position: Tenure Track Assistant Professor at U Alabama Birmingham
- India Schneider-Crease: NSF SBE postdoctoral fellow (2017-2023)
    - Current position: Tenure Track Assistant Professor at ASU
- Alice Baniel: (2018-2022)
    - Current position: Research Scientist (permanent position) in the Institut de Recherche pour le Développement: Institut Des Sciences De L'evolution De Montpellier
- Trisha Zintel: (2020-2022)
    - Current position: Biostatistician/Data Engineer at Sage Bionetworks (Seattle, WA)

Current:

- Baptiste Sadoughi (2024-present)
- Blaise Mariner (2024-present)
- Elliot Smith (2025-present)

PhD Students (primary or co-primary mentor)

Past:

- Corbin Johnson (University of Washington; 2017-2022)
    - Current position: T32 Postdoc at University of Washington (Jayadev Lab)
- Marina Watowich (University of Washington; 2017-2022)
    - Awards: NIH F31/NRSA Fellow (2022); Diana Jacobs Kalman/AFAR Scholarships for Research in the Biology of Aging (2022)
    - Current position: T32 Postdoc at Vanderbilt University (Lea Lab)
- Mitchell Sanchez Rosado (University of Puerto Rico; 2019-2024)
    - Awards: NIH Diversity Supplement (2020-2022); NIH R36 (2023-2024)
    - Current position: Researcher, Eli Lilly, Puerto Rico
- Brianah McCoy (Arizona State University; 2021-2025)
    - Awards: NSF GRFP Fellow (2021-); Achievement Rewards for College Scientists (ARCS) Scholar; NIH/NIA F99/K00 Award
    - Current position: K00 Postdoctoral Fellow; Carolina Population Research Center
- Christina Costa (New York University, PhD, 2020-2025)
    - Awards: NSF Doctoral Dissertation Improvement Grant
    - Current position: Doctoral lecturer; Anthropology Department; City University of New York
- Laura Newman (New York University, PhD, 2019-2024)

- Awards: NSF Doctoral Dissertation Improvement Grant
- Current position: Project Management Specialist, Center for Data Analytics, Child Mind Institute

Current:

- Kelsi Watkins (Arizona State University; 2022-present)
  - Awards: NIH Trainee to enhance diversity in the biomedical research workforce (2024); NIH T32 trainee (2025-)
- Brooklynn Scott (Arizona State University; 2023-present)
  - Awards: NSF GRFP Fellow (2023-)
- Cameron Kelsey (Arizona State University; 2023-present)
- Belayneh Abebe (Arizona State University; 2025-present)
  - Awards: ASU Presidential Graduate Scholar (2025-2027)

MS Students

Past:

- Kate Nelson (Arizona State University, MSc, 2024-2025)
- Layla Brassington (Arizona State University, MSc, 2021-2022)
  - Current position: PhD student at Vanderbilt University (Lea Lab)

Graduate Committees (University, degree, graduation year)

- Rachel Eder (Arizona State University, PhD, in progress)
- Parker Crossland (Arizona State University, PhD, in progress)
- Aaron Cromar (Arizona State University, PhD, in progress)
- Medhavi Verma (Arizona State University, PhD, in progress)
- Dominic Saiz (Arizona State University, PhD, in progress)
- Glenda Ramirez (Arizona State University, PhD, in progress)
- Kelly Jin (University of Washington, PhD, 2020)
- Lauren Petrullo (Stony Brook University, PhD, 2020)
- Alexandra DeCasien (New York University, PhD, 2021)
- Joey Orton (Arizona State University, MSc, 2022)
- Peter Zambetti (University of Washington, PhD, 2022)
- Sharmi Sen (University of Michigan, PhD, 2023)
- Patricia DeLacey (University of Michigan, PhD, 2023)
- Mollie Peters (Arizona State University, PhD, 2025)

Undergraduate students (University, years in lab)

- Kate Leinenweber (Arizona State University, 2024-)
  - SOLUR scholar (2025-2026)
- Tisya Panchal (Arizona State University, Barrett Honors, 2024-)
- Teresa Joseph (Arizona State University, Barrett Honors, 2025-)
- Ananya Ayer (Arizona State University, Barrett Honors, 2025-)
- Melia Menke (Arizona State University, Barrett Honors, 2023-2024)
- Isabella Ford (Arizona State University, Barrett Honors, 2021-2024)
- Ritika Anand (Arizona State University, Barrett Honors, 2021-2024)
- Kate Nelson (Arizona State University, 2021-2024)
- Spencer Green (Arizona State University, Barrett Honors, 2020-2023)
  - TGen Helios Scholar (2021)
- Jalen Nix (Arizona State University, 2021)
- Isabella Moya (Arizona State University, Barrett Honors, 2021-2024)
  - SOLS Medical Microbiology Student of the Year (2022)
  - Dr. Harry Gilbert and Doris Lorraine Crecelius Scholarship (2022)
- Aliya Kammerer (Arizona State University, Barrett Honors, 2021)
- Yasmine Salehi (Arizona State University, Barrett Honors, 2021-2023)
- Faiyaj Murshed (Arizona State University, 2021-2022)
- Garett Maag (Arizona State University, 2020-2021)
  - SOLUR program Scholar

- Layla Brassington (Arizona State University, 2020-2021)
- Emma Offenberg (Stanford University, 2020-2021)
- Matthew Harrington (University of Washington, Honors, 2017-2018)
- Abigail Lam (University of Washington, Honors, 2018)
- Lia Koklic (University of Washington, Honors, 2018-2019)
- Grace De Castro (University of Washington, 2018-2019)
    - Beacon Lab & Field Award (2019)

NSF Research Experience for Undergraduates (2021-2025)

My lab ran a 10-week NSF-funded Research Experience for Undergraduates (REU) for 5 years. We recruited, trained, and paid students from underrepresented backgrounds in the sciences (URM, disabled, LBGTQIA+) to gain research experience in genomics and bioinformatics.

- 2021 cohort: Jazmine Harvey (Sacramento State University); Taliana Tudryn (Durham Community College/ NC State); Brian Graves (UC Davis); Nat Finnegan (UC Davis); Gabi Dugan (Virginia Tech)
- 2022 cohort: Andrea Negron (U Puerto Rico- Humacao); Amy Longtin (George Washington University); Alice Mongane (Carleton College)
- 2023 cohort: Claire Cheng (U Georgia); Jess Neumaier (ASU); Melia Menke (ASU); Elizabeth Wright (U Florida)

ASU DEPARTMENTAL AND UNIVERSITY SERVICE

2026-	Associate Director for Research Initiatives, SOLS
2025-	College of Liberal Arts and Sciences, College Research Council
2025-	SOLS Mentoring Committee
2024-2026	Co-director, Computational Life Sciences Graduate Program
2024	School of Life Sciences: “Reimagining SOLS” faculty group working group
2023-	SOLS Charter Initiatives Committee member
2022	Bioethics of direct-to-consumer genomics. ASU Bioethics Breakfast Club.
2022-	Center for Evolution and Medicine Seminar (CEMinar) organizer
2022-2024	Molecular and Cellular Biology Seminar organizer
2021-2025	Molecular and Cellular Biology Executive Committee
2020-2025	Molecular and Cellular Biology graduate admissions committee
2021-	School of Life Sciences, CEM, & NDRC Tenure Track and Career Track Faculty Search committees
2021	NIH Diversity Supplements Opportunity Kick-off (invited speaker)
2020	School of Life Sciences JEDI (Justice, Equity, Diversity, and Inclusion) founding member and advisory board member

NATIONAL SERVICE

Scientific Advisory Boards/Committees

2024-	Animal Models for the Social Dimensions of Health and Aging Research Network, co-PI
2024-	California National Primate Research Center, National Scientific Advisory Board
2023-	National Institute on Aging: Aging Cell Repository, Scientific Advisory Committee

Workshops

2026	Networking the Networks: Animal Models for the Social Dimensions of Health and Aging, Arizona State University
2024	Santa Fe Institute Follow-up Working Group: "The Causes and Limits of Lifespan Extension" (invited participant that led to a publication)
2024	Earth Biogenomes Project Workshop, Arizona State University

2024	NIH, Understanding the Biological Mechanisms Underlying the Health Consequences of Racism, Marginalization, and Discrimination. (invited speaker)
2024	NIH BRAIN Initiative Workshop “From Single-cell Genomics to Brain Function and Disorders - Data Integration and Annotation" (invited speaker)
2023	Research Summit 6 on Precision Rehabilitation Research, Bethesda, MD (invited speaker/panelist)
2023	Diverse Intelligences Summer Institute (DISI) Faculty, Edinburgh, Scotland (invited faculty member)
2023	NIA Midlife Stress and Hallmarks of Aging Workshop (invited speaker)
2023	NIH/NIA Geroscience Summit (invited panelist)
2023	Santa Fe Institute Working Group: "The Causes and Limits of Lifespan Extension" (invited participant)
2022	Meharry Medical School Conference: *The Invisible Laws and Policies That Create Illness, Inequality, Disenfranchisement and Discontent In America - How Our Laws and Policies Affect the Health, Wellness and Thriving of a Nation – and What We Can Do About it.* Nashville, TN (invited speaker)
2022	NIH/NIA Advisory Council on Aging (Highlight speaker)
2021	NIH, BRAIN Initiative, Tissue Quality and Pipeline for the Human Brain Census workshop (invited speaker)
2021	Evolutionary Mismatch in the Genomics Era Workshop, Princeton, NJ (invited speaker)
2019	Social Determinants of Health Working Group, Durham, NC (member)
2018	Connectome Research Workshop, Mexico City, Mexico (invited speaker)

Grant review panels

2025-	Standing Member of BPSF NIH Study section (formerly BRLE)
2024	NIH/NIA AGCD-1 (NIA K99 charted panel), Reviewer
2023	NIH/NIA, Alzheimer’s-Related Resource Centers for Minority Aging Research (AD/ADRD RCMAR), Reviewer
2020	NIH, ZRG1 BBBP-Y (50) Special Emphasis Panel, Reviewer
2020	NSF, Rules of Life, ad hoc Reviewer
2017	NIH Biobehavioral Regulation, Learning, and Ethology, ad hoc Reviewer
2017	NSF SBE Postdoctoral Research Fellowship, Panel Reviewer
2014-	The Leakey Foundation, Ad Hoc Reviewer
2019-	Animal Behavior Society Student Grant, ad hoc Reviewer

INVITED TALKS (since 2017)

2026	Arizona State University	Center for Evolution and Medicine Seminar
2026	Arizona State University	School of Life Sciences Seminar
2026	Alliance for Longevity Initiative	H-SPAN Arizona Event
2025	Arizona State University	Center for Health Through Microbiomes Seminar
2025	Oregon National Primate Research Center	Division of Genetics Seminar
2025	American Aging Association	Annual Meeting
2025	NIH/NIA	Division of Aging Biology Extramural Seminar
2025	University of Alabama at Birmingham	IISAGE Online Seminar Series
2025	University of North Carolina	Animal Models of Social Determinants of Health and Aging Network Keynote
2022	Princeton University	Lewis-Siegler Institute Quantitative & Computational Biology Seminar

2022	Brown University	Ecology, Evolution and Organismal Biology Seminar
2022	Arizona State University	Neurodegenerative Disease Research Center
2022	University of Washington	Biology of Aging Seminar Series
2022	Johns Hopkins University School of Medicine	One Medicine Seminar Series
2021	Arizona State University	Psychology Department; Behavioral Neuroscience Seminar
2021	Arizona State University	Center for Evolution and Medicine Seminar
2021	Columbia University	Aging Center Seminar
2021	New York University	New York Consortium in Evolutionary Primatology
2021	Arizona State University	Biomedical Engineering Seminar, Arizona State University
2020	Arizona State University	MCB/Neuroscience joint Colloquium
2020	Triangle Center for Evolutionary Medicine, North Carolina	Club EvMed Seminar
2020	Addis Ababa University, Ethiopia	Zoology Department Seminar
2019	Chicago, IL	Brain Initiative Cell Census Network semi-annual meeting
2019	Michigan State University	Ecology Evolutionary Biology and Behavior Program Seminar
2019	University of Washington	Biological Anthropology Seminar Series
2019	University of Washington	Genome Sciences Pop Bio Seminar
2018	University of Washington	Biology Department Seminar
2018	University of Washington	Nathan Shock Center for the Biology of Aging Seminar
2018	Arizona State University	Center for Evolution and Medicine Seminar
2018	Fred Hutchinson Cancer Research Center	Annual Retreat, Plenary Speaker

AWARDS

2025	Arizona Behavior Society Fellow
2025	ASU Outstanding Graduate Student Mentor, nominee
2022	ASU nominee for Blavatnik Award for Young Scientists
2016	NIA Butler-Williams Scholar
2012	Animal Behavior Society Allee Competition, runner-up

GRANTS & FELLOWSHIPS (PhD & Postdoc)

2016-2017	NIH Pathway to Independence Award (K99AG051764)
2015	NIH Postdoctoral Fellowship Duke Center for Study of Aging (T32AG000029)
2013-2015	NSF Office of Multidisciplinary Studies Postdoctoral Fellowship (SMA-1306134)
2012-2013	NIH Postdoctoral Fellowship, Duke University Population Research Institute (T32)
2008-2012	NSF Graduate Research Fellowship
2010	NSF Doctoral Dissertation Improvement Grant in Physical Anthropology, (BCS-0962118)
2010	L.S.B. Leakey Foundation General Grant

PROFESSIONAL DEVELOPMENT & TRAINING

Inclusive training, leadership, and professional development: *Yale Ciencia Academy Advisor Academy (2021-2022); National Research Mentoring Network, Culturally Aware Mentorship workshop (2022); AdvanceGEO workplace climate and bystander intervention (2022); School of Life Sciences Leadership Academy (2021-2022*)

Manuscript peer reviewer: *Science, Cell, Nature Neuroscience, eLife, Proceedings of the National Academy of Sciences, Cell Reports, GeroScience, Nature Communications, Molecular Biology & Evolution, Scientific Reports, Aging Cell, Proceedings of the National Academy of Sciences, Journal of Animal Ecology, Animal Behavior, Philosophical Transactions of the Royal Society B: Biological Sciences, Proceedings of the Royal Society B: Biological Sciences, Behavioral Ecology and Sociobiology, Journal of Human Evolution, American Journal of Primatology, Primate Biology, International Journal of Primatology, Zoo Biology, Functional Ecology, Cognitive Science, Molecular Ecology, Molecular Ecology Resources, Behavioral Ecology, Behaviour, Animal Cognition*.

Society Membership: *International Society for Evolution, Medicine, and Public Health; Society for Molecular Biology and Evolution; American Society of Naturalists; Animal Behavior Society; International Primatological Society; American Association of Biological Anthropologists; American Association for the Advancement of Sciences; American Aging Association; Society for Neuroscience*

Journal Editor: *Philosophical Transactions of the Royal Society of London B: Biological Sciences,* Special issue: “Evolution of the primate ageing process”, Guest Editor (2020)