

CURRICULUM VITAE

Jennifer A. (Kedzie) Raff
Department of Anthropology
University of Kansas
614 Fraser Hall
1415 Jayhawk Blvd.
Lawrence, KS 66045-7556

Education

- 2008 Ph.D., Anthropology and Genetics (dual degree), Indiana University, Bloomington, IN.
Dissertation: *An Ancient DNA Perspective on the Prehistory of the Lower Illinois Valley*
- 2008 M.A., Anthropology, Indiana University, Bloomington, IN.
- 2001 B.A., Biology and Anthropology (double major): Indiana University, Bloomington, IN.

Professional Positions

- 2019-present Affiliate Faculty, Indigenous Studies Program, University of Kansas
- 2015-present Assistant Professor, Department of Anthropology, University of Kansas.
Assistant Director, Laboratory of Biological Anthropology, University of Kansas
- 2013-2015 Research Fellow: Department of Anthropology, University of Texas at Austin
- 2011-2013 Postdoctoral Fellow: Division of Endocrinology, Metabolism, and Molecular Medicine, Feinberg School of Medicine, Northwestern University at Chicago
- 2008-2011 Postdoctoral Associate: Department of Anthropology, University of Utah at Salt Lake City
- 2002-2008 Graduate Researcher: Departments of Biology and Anthropology, Indiana University at Bloomington
- 2001-2002 Research Assistant: Department of Biology, Indiana University at Bloomington
- 1997-2001 Undergraduate Research Assistant: Department of Biology, Indiana University at Bloomington

Honors and Awards

University of Kansas Docking Faculty Scholar (February 2019-present).

Professional Affiliations

American Association for the Advancement of Science
American Association of Physical Anthropology
American Society of Human Genetics
American Association of Anthropological Genetics
American Anthropological Association

Publications

Major publications

Journal Articles

Braje TJ, Erlandson JM, Torben C. Rick, Davis L, Dillehay T, Fedje DW, Froese D, Gusick A, Mackie Q, McLaren D, Pitblado B, **Raff J**, Reeder-Myers L, and Waters M. Fladmark + 40: What have we learned about a potential Pacific Coast colonization of the Americas? *American Antiquity* 85(1):1-21.

Flegentov P, Altınışık NE, Changmai P, Rohland N, Mallick S, Adamski N, Bolnick D, Broomandkoshbacht N, Candilio F, Culleton B, Flegontova O, Friesen TM, Jeong C, Harper T, Keating D, Kennett D, Kim A, Lamnidis T, Lawson A, Olalde I, Oppenheimer J, Potter B, **Raff J**, Sattler R, Skoglund P, Stewardson K, Vajda E, Vasilyev S, Veselovskaya E, Hayes MG, O'Rourke D, Krause J, Pinhasi R, Reich D. (2019). Paleo-Eskimo genetic legacy across North America. *Nature* 570: 236-240.

Reynolds AW, Mata-Míguez J, Miró-Herrans A, Briggs-Cloud M, Sylestine A, Olmos FMB, Ortiz HG, Rzhetskaya M, Orozco LS, **Raff JA**, Hayes MG, Bolnick DA. 2019. Comparing Signals of Natural Selection Between Three Indigenous North American Populations. *Proceedings of the National Academy of Sciences* DOI: <https://doi.org/10.1073/pnas.1819467116>

Claw KG, Anderson MZ, Begay RL, Tsosie KS, Garrison NA and the SING Consortium. (2018). A framework for enhancing ethical genomics research with Indigenous communities. *Nature Communications* 9: 2957. (Member of SING Consortium).

Bardill J, Bader AC, Garrison NA, Bolnick DA, **Raff JA**, Walker A, Malhi RS, and the SING Consortium. (2018). Advancing the Ethics of Paleogenomics: Shifting the Status Quo on Community Consultation. *Science* 360 (6387): 384-385

Raff J. (2017). Genetics: Ancient DNA clarifies population histories of the northeastern margin of North America. *Current Biology* 27, R1108-R1129.

Bolnick DA, **Raff JA**, Springs LC, Reynolds AW, Miro-Herrans AT. (2016). Native American genomics and population histories. *Annual Review of Anthropology* 45:319-340.

Tackney JC, Potter BA, **Raff JA**, Powers M, Watkins WS, Warner D, Reuther JD, Irish JD, O'Rourke DH. (2015). Two contemporaneous mitogenomes from Terminal Pleistocene burials in Eastern Beringia. *Proceedings of the National Academy of Sciences* 112 (45): 13833–13838, doi: 10.1073/pnas.1511903112

Raff JA and Bolnick DA. (2015). Does mitochondrial haplogroup X indicate

ancient trans-Atlantic migration to the Americas? A critical re-evaluation. *PaleoAmerica*. 1(4): 297-304 (Open Access).

Raff JA. (2015). Anthropological genetics and social media outreach. *American Anthropologist* 117 (4): 744-749

Raff JA, Rzhetskaya M, Tackney J, Hayes MG. (2015). Mitochondrial diversity of Inupiat people from the Alaskan North Slope provides evidence for the origins of the Paleo- and Neo-Eskimo Peoples. *American Journal of Physical Anthropology* 157 (4): 603-614

Reynolds, A.W.*, **Raff, J.A.***, Cook, D.C., Kaestle, F.A., and Bolnick, D.A. 2015. Ancient DNA from the Schild site in Illinois: Implications for the Mississippian transition in the Lower Illinois River Valley. *American Journal of Physical Anthropology* 156 (3): 434-448 DOI: 10.1002/ajpa.22668 ***Co-first authors**

Li, J., Quinque, D., Li, M., Horz, H., Rzhetskaya, M.R, **Raff, J.**, Hayes, M.G., and Stoneking, M. (2014). Comparative analysis of the human saliva microbiome from different climate zones: Alaska, Germany, and Africa. *PLOS Computational Biology*. doi:10.1186/s12866-014-0316-1

Raff J.A. and Bolnick D.A. (2014) Genetic roots of the first Americans. *Nature* 506:162-163.

Raff, J.A., Bolnick, D.A., Tackney, J.C., and O'Rourke, D.H. (2011) Ancient DNA perspectives on American colonization and population history. *American Journal of Physical Anthropology** 146:503-514. ***One of the five most accessed articles in the American Journal of Physical Anthropology in 2011.**

Raff, J.A., Tackney, J.C., and O'Rourke, D.H. (2010) South from Alaska: A pilot aDNA study of genetic history on the Alaskan Peninsula and Eastern Aleutians. *Human Biology* 82(5-6): 677-693.

O'Rourke, D.H., and **Raff, J.A.** (2010) The final frontier: Genetic perspectives on American colonization. *Current Biology* 20:R202-R207.

Raff, J.A., Cook, D.C., and Kaestle, F.A. (2006) Tuberculosis in the New World: a study of ribs from the Schild Mississippian population, West-Central Illinois. *Memórias do Instituto Oswaldo Cruz*, 101(Suppl. II): 25-27. Rio de Janeiro.

Lee, S., Carlson, T., Christian, N., Lea, K., **Kedzie, J.**, Reilly, J.P., Bonner, J.J. (2000). The yeast heat shock transcription factor changes conformation in response to superoxide and temperature. *Molecular Biology of the Cell* 11:1753-1764.

Books and books under contract

Raff JA. (In progress) *Origins: A genetic history of the Western Hemisphere*. Under contract to Twelve Books. Anticipated publication date: February 2021.

Raff, JA. (2016). *Handbook on Science Literacy*. Kendall/Hunt Publishing Company. ISBN 9781524907358

Invited Book Chapters

Raff JA. 2018. Ancient DNA and Bioarchaeology. In Companion to Anthropological Genetics, Dennis O'Rourke, Editor. Wiley-Blackwell.

Tackney, J.C., Coltrain, J.B., **Raff JA**, and O'Rourke, D.H. (2016) Ancient DNA and stable isotopes: Windows on Arctic prehistory. In: Oxford Handbook of the Prehistoric Arctic, Max Friesen and Owen Mason, Editors. Oxford University Press.

Meier, R. J. and **Raff, J.A.** (2010) Genetics in Human Biology. In: Human Evolutionary Biology, Michael P. Muehlenbein, Editor. Cambridge University Press.

Powell, M.L., Cook, D.C., Langley, M.M., Spencer, S.D., **Raff, J.A.**, and Kaestle, F.A. (2012) The 'African Queen', a Portuguese mystery. In: The Bioarchaeology of Individuals: Bioarchaeological Interpretations of the Past: Local, Regional, and Global, Ann Lucy Stodder and Ann M. Palkovich, Editors. University Press of Florida.

Book Reviews

Raff, JA. May 31, 2018. In an Age of Gene Editing and Surrogacy, What Does Heredity Mean? Review of Carl Zimmer's *She Has Her Mothers Laugh*. The New York Times Book Review.

Raff, JA. 2014. Review of Nicholas Wade's *A Troublesome Inheritance*. *Human Biology* Volume 86(3).

Public scholarship

(most significant articles listed for each publication; total number is higher than listed here. All pieces single-authored, not formally peer-reviewed)

Forbes

- *What does DNA tell us about race?* April 26, 2019.
- *Genetic astrology: When ancient DNA meets ancestry testing.* April 9, 2019.
- *New dates reveal which ancient hominins were living in Denisova cave, and when.* February 2, 2019.
- *Five amazing things we learned about history from ancient DNA in 2018.* December 27, 2018.
- *Genetic study of Latin Americans reveals history of Converso migration.* December 23, 2018.

- *Ancient DNA reveals yet more complicated histories in the Americas.* November 13, 2018.
- *What do Elizabeth Warren's DNA test results actually mean?* October 15, 2018.

The Guardian

- *Have we really found Amelia Earhart's bones?* March 16, 2018.
- *Rejecting the Solutrean hypothesis: the first peoples in the Americas were not from Europe.* February 21, 2018.
- *What the ancient DNA discovery tells us about Native American ancestry.* January 3, 2018.
- *No 'lost tribes' or aliens: what ancient DNA reveals about American prehistory.* November 15, 2017.
- *The secret about human evolution found in spit.* September 5, 2017
- *If Mary Beard is right, what's happened to the DNA of Africans from Roman Britain?* August 9, 2017.
- *Did human women contribute to Neanderthal genomes over 200,000 years ago?* July 18, 2017.
- *Homo naledi genome: Will we ever find this elusive key to human evolution?* May 23, 2017.
- *Food for thought: reconstructing the diet of Napoleon's Grand Army.* April 18, 2017.
- *Ancient DNA reveals genetic legacy of pandemics in the Americas.* December 19, 2016.

The London School of Economics and Political Science Impact Blog

- *How to read and understand a scientific paper: a guide for non-scientists.* May 9, 2016.

Evolution Institute Social Evolution Forum

- *How admixture with Neanderthals may have affected human populations.* November 3, 2015.
- *And then there were three: New Denisovan genomes tell us more about the evolution of Archaic hominins.* November 24, 2015.
- *Why there still are monkeys: Lessons learned from teaching evolution in Kansas.* December 30, 2015.

Personal scientific literacy blog (www.violentmetaphors.com)

Total views from April 2013 through January 3, 2019: 4,920,909

Total subscribers (January 3, 2019): 33,837

- *Genetic mythologies: "Nephilim DNA" from the Paracas skulls.* September 20, 2016.
- *Nicholas Wade and race: building a scientific façade.* May 21, 2014. (Cited by

- Nature News).
- *Dear parents, you are being lied to.* March 25, 2014. >10 million views (on multiple English language websites); also in French, Spanish, German, Chinese.
 - *How to read and understand a scientific paper: A guide for non-scientists.* August 25, 2013. Cited as an important resource by the American Library Association, Scientific American blog, BBC science and technology blog, and featured on Freshly Pressed and BoingBoing. Translated into French, German, Spanish, Portuguese, Russian, Israeli, and Danish. Used by over 200 university programs worldwide.
 - *The truth about vaccinations: Your physician knows more than the University of Google.* August 14, 2013.
 - *How to become good at peer review: A guide for young scientists.* December 13, 2013.
 - *Problematic science journalism: Native American ancestry and the Solutrean hypothesis.* March 10, 2014.

Huffington Post

- *Addressing a diversity problem in human genetics.* September 16, 2014.
- *Nicholas Wade and race: building a scientific façade.* May 27, 2014.
- *Dear parents, you are being lied to.* April 8, 2014.

Minor publications

Raff JA. 2019. Y not a Pacific migration? Misunderstandings of genetics in service to pseudoscience. *SAA Archaeological Record* 19(5).

Raff JA. 2019. Genomic perspectives on the peopling of the Americas. *SAA Archaeological Record* 19(3): 12-15.

Tackney JT and **Raff JA.** 2019. A different way: Perspectives on human genetic research from the Arctic. *SAA Archaeological Record* 19(2): 20-25.

Raff JA. 2018. *Sewall Wright.* The International Encyclopedia of Biological Anthropology. Wenda Trevathan, Editor. Wiley Blackwell Press.

Raff JA. 2018. *Cloning.* The International Encyclopedia of Biological Anthropology. Wenda Trevathan, Editor. Wiley Blackwell Press.

Manuscripts in review

Hoffecker JF, Scott GR, **Raff JA**, O'Rourke DH, Elias SA, Hlusko LJ, Sicoli MA, Bourgeon L, Potapova OR, Pavlova E, Pitulko V. Native American origins: an interdisciplinary critique of current models. Submitted to *Current Anthropology*.

Manuscripts in preparation

Raff JA, Scott GR, Hoffecker JF, Hlusko LJ, Sicoli MA, Elias SA, O'Rourke DH. The peopling of the Americas: An interdisciplinary synthesis. *To be submitted to American Antiquity*.

Raff JA, Mata-Miguez J, Turpin S, Bolnick DA. Ancient DNA analysis of the prehistoric inhabitants of the Lower Pecos Region of Texas and Northern Mexico. *In prep, to be submitted to Nature Scientific Reports*.

Raff JA, Rzhetskaya M, Tackney J, Hayes MG. Y chromosome diversity in North Slope Inupiat populations. *In prep, to be submitted to AJPA*.

Grants

Externally funded proposals

- 2019 *Early Career Grant* (co-PI with Justin Tackney) (\$10,000). National Geographic Society.
- 2019 *American Dispersals: The Genetic History of the Aleut People*. (\$450,000). National Science Foundation. (3 years)
- 2018 Funding awarded for AAAG symposium "Interpreting and communicating genetic variation in 2019: A conversation on race" March 27-30. (American Association of Physical Anthropologists, American Anthropological Association).
- 2015 *Identifying Genomic Signatures of Evolutionary and Cultural Change in Native Americans* (\$285,845). National Science Foundation. Co-PI with Deborah Bolnick. (3 years)
- 2014-2015 *Ancient DNA Analysis of the Prehistory of the Lower Pecos Region of Texas* (\$27,600 Direct Costs), Rock Art Foundation. Co-PI (PI: Deborah Bolnick).
- 2014-2015 *Uncovering the Genetic Legacy of Fueguians and Patagonians through Modern and Ancient DNA Analyses* (\$10,000 Direct Costs). National Geographic Genographic Project. Sub-contract (PIs: Marta Durruty and Miguel Vilar).
- 2004, 2006 *The evolution of tuberculosis in prehistoric North America* (\$80,000), National Science Foundation IGERT Doctoral Fellowship.

Internally funded proposals

- 2018 *Ancient Alaskan origins and expansion: Re-aligning archaeological and genetic evidence.* (\$12,000). KU Research Excellence Initiative. (1 year).
- 2018 *A pilot ancient DNA study of the ancestors of the Wichita.* (\$14,540.50). KU Research Grant Opportunity program. (1 year)
- 2018 *Siberian genetic diversity and the origins of Native American populations* (\$8,000). University of Kansas New Faculty General Research Fund. (1 year)
- 2018 Genome sequencing center voucher for work on ancient genome from the Alaska Peninsula (\$3,120) (1 year)
- 2016 *Testing alternative models of Native American migration history with ancient DNA* (\$4,900). KU Center for Migration Research Institute for Policy and Social Research 2016 Seed Grant Program. (1 year)
- 2005 *The evolution of tuberculosis in prehistoric North America* (\$3,000), Skomp Research Feasibility Grant. Indiana University. (1 year)
- 2004 *Prehistoric population movements and disease in ancient North America* (\$3,000), Skomp Research Feasibility Grant. Indiana University. (1 year)
- 2002 Women in Science Program Graduate Fellowship (\$18,000). Indiana University

Proposals currently in review

- 2020 Szpak Paul (PI), **Raff Jennifer** (co-PI) Isotopic Prehistory of the Wichita and Affiliated Tribes. SSHRC Insight Development Program (Canada).

Submitted proposals, not funded

- 2019 *CAREER: Investigating the genetic history of the Central and Southern Plains* (\$604,815). National Science Foundation.

Proposals currently in preparation

Investigating the genetic history of the Central and Southern Plains. To be submitted to NSF Biological Anthropology Program, July 2020.

Field experience

- 2016** (As PI) Aleut population genetic history project. Anchorage, AK. Collected DNA samples from participants in a new genetic study of Aleut populations.

- 2009, 2010** IPY Project: Reconstructing Genetic History on the Alaskan North Slope. (PIs: Dennis H. O'Rourke and M. Geoffrey Hayes). Assisted in Thule burial excavation, collection of samples for aDNA analysis, and analysis of contemporary DNA samples from North Slope communities.
- 2000** Western Belize Regional Cave Project, Cayo District, Belize. (PI: Jaime Awe). Archaeological excavations of Classical Mayan sites (including Actun Tunichil Muknal).

Invited lectures

- 2019 Untangling the knot: Genetics, Ancestry, Identity, and Race. Denison University. November 13.
- 2019 Respectful research with ancestors: Approaches to working with Indigenous communities from anthropological genetics. NIH/NHGRI workshop in Equity, Diversity, and Data Science in Genomics, Carl R. Woese Institute for Genomic Biology, Champagne, IL. September 3-5.
- 2019 Ancient DNA and the ancestors of Indigenous peoples. KU Red Hot Research No. 53: Ethics. The Commons, University of Kansas. April 12.
- 2019 Genomic perspectives on the peopling of the Americas. Lehigh University 2019 D. Foster Hewitt Symposium: "The Peopling of North America." February 8, 2019.
- 2019 Using Ancient DNA to understand the Past: Examples from the Americas. Institute for Historical Studies, Department of History, University of Texas lecture series: "Reclaiming the Pre-Modern Past" January 30, 2019.
- 2018 Ancient DNA and the Wichita. Invited presentation for the Executive Committee of the Wichita and Affiliated Tribes. Oklahoma. December 13th, 2018.
- 2018 Kavli Conversation on Science Communication. Invited panel discussion with Carl Zimmer at NYU's Arthur L. Carter Journalism Institute. New York City. October 9th, 2018.
- 2018 "A different way: Perspectives on human genetic research." Invited presentation to curators at the Smithsonian Institution National Museum of the American Indian, Washington D.C. September 18, 2018.
- 2018 "What genetics tells us about the peopling of the Americas". Pre-Columbian Society symposium on "Peopling of the Americas". Washington D.C. September 15, 2018.

- 2017 “Vaccines and society” Presentation to Kansas Health Institute, Topeka KS.
- 2017 NPR Science Friday Live. September 10. Wichita KS.
- 2016 “The increasing complexity of the final frontier: What genetics tells us about the initial peopling of the Americas.” September 6. Evolution, Ecology and Behavior seminar, Lawrence KS.
- 2016 “The history of genetics.” NASA ISS Science Friday presentation. March 25. Houston, TX.
- 2016 “A lot of smoke, but no fire: A history of the antivaccine movement.” KU Biodiversity Institute and Natural History Museum Science on Tap presentation. Feb 16. Lawrence, KS.
- 2015 “A genetic perspective on the prehistory of the Americas.” University of Missouri, Columbus.
- 2014 “What we currently know (and don’t know) from genetic data about the peopling of the Americas and North American Arctic.” Department of Anthropology, University of Texas at Austin.
- 2014 “Ancient DNA research methods and ethics”. Summer Internship for Native Americans in Genomics, University of Texas at Austin.
- 2014 “Ancient molecules and migrations: Understanding the origins of the earliest Americans.” The Summer Science Program, New Mexico Institute of Technology.
- 2013 “Anthropological genetic investigations into the final frontier: Human colonization of the North American Arctic.” Department of Anthropology, University of Alaska, Fairbanks.
- 2013 “The peopling of the Americas.” Department of Anthropology, University of Alaska, Fairbanks.
- 2012 “Blending genomics and anthropology to understand human prehistory.” Scholarship and Discovery Conversation Series. Sponsored by the School of Health Professions, Mizzou Advantage, and the College of Arts and Sciences, University of Missouri, Columbia.
- 2011 “Women in prehistoric North America.” Women in Science Day Featured Lecture. Sponsored by the Department of Anthropology, Indiana University South Bend.

Conferences and symposia organized/chaired

- 2019-2020 Member of the American Anthropological Association Executive Planning Committee for the 2020 meeting (St. Louis)
- 2019 AAAG-AAPA-AAA-HBA-Wiley symposium “Interpreting and communicating genetic variation in 2019: A conversation on race” March 30. Organizer and chair. 88th Annual Meeting of the American Association of Physical Anthropologists, Cleveland OH.
- 2019 AAPA Presidential Panel organizer, panelist, and co-moderator. March 30, 2019. 88th Annual Meeting of the American Association of Physical Anthropologists, Cleveland OH.
- 2018 Session Chair, SMBE Satellite meeting on Modern Methods for the Study of Ancient DNA. Providence, RI.
- 2014 Organizing committee, Summer Internship for Native Americans in Genomics. University of Texas at Austin.
- 2014 Co-organizer with Michael O’Brien (University of Missouri) and Dennis O’Rourke (University of Utah), American Colonization and Dispersal: Disciplinary Perspectives and Challenges. Conference sponsored by Mizzou Advantage, University of Missouri.
- 2011 Session Chair, Anthropological Genetics of the Americas. 80th Annual Meeting of the American Association of Physical Anthropologists. Minneapolis, Minnesota.
- 2007 Co-organizer and Session Chair, Current Frontiers in Evolution, Development, and Genomics. Indiana University & University of Oregon NSF-IGERT Symposium. Bloomington, Indiana.

Conference presentations

*International conferences

- 2019 Muskrat J, Marriage T, Alden S, Sykora L, Tackney J, Beaty K, Barrett C, Crawford M, Rohland N, Reich D, O’Rourke D, **Raff J**. 2019. Evaluating the presence of previously identified archaic introgressed haplotypes in contemporary Aleuts. 88th Annual Meeting of the American Association of Physical Anthropologists, Cleveland OH.
- 2018 Balentine CM, Reynolds AW, Miró-Herrans A, Mata-Míguez J, Rzhetskaya M, **Raff JA**, Hayes MG, Bolnick D. Investigating region-specific natural selection and admixture-associated selection in the

- Indigenous peoples of the Americas. 87th Annual Meeting of the American Association of Physical Anthropologists, Austin TX.
- 2018 **Raff JA**, Reynolds AW, Turpin S, Rohland N, Reich D, Bolnick DA. Paleogenomic investigations of the ancient inhabitants of the Lower Pecos region of Texas and Northern Mexico. 87th Annual Meeting of the American Association of Physical Anthropologists, Austin TX.
- 2018 **Raff JA**, Reynolds AW, Turpin S, Rohland N, Reich D, Bolnick DA. Paleogenomic investigations of the ancient inhabitants of the Lower Pecos region of Texas and Northern Mexico. Society for Molecular Biology and Evolution Satellite meeting on Modern Methods for the Study of Ancient DNA. Providence, RI.
- 2017 **Raff JA**. Communicating early career research: The importance of outreach. Invited Poster in Symposium: Training the Next Generation of Biological Anthropologists. 86th Annual Meeting of the American Association of Physical Anthropologists, New Orleans LA.
- 2017 Smith RWA, **Raff JA**. Little Green Men, Huge Angry People, and Across the Water Visits: Very Wrong Things People Say about Old Times in the New World. Invited Podium Symposium. Up Goer Five PhysAnth Edition: Communicate Your Science Using English's Ten Hundred Most Common Words. 86th Annual Meeting of the American Association of Physical Anthropologists, New Orleans LA.
- 2017 **Raff, Jennifer A**, Justin Tackney, Margarita Rzhetskaya, M. Geoffrey Hayes, and Dennis H. O'Rourke. "New perspectives on Arctic prehistory from ancient and contemporary genetics." 44th Annual Meeting of the Alaska Anthropological Association, Fairbanks AK. March 2017.
- 2016 **Raff JA**, Mata-Miguez J, Ku, CR, Bolnick DA. Ancient DNA analysis of the prehistoric inhabitants of the Lower Pecos Region of Texas and Northern Mexico. 85th Annual Meeting of the American Association of Physical Anthropologists, Atlanta GA. April 16.
- 2015 Bolnick D and **Raff JA**. Imposing Colonial Modernity on the Past: Narratives of Identity and Race in Ancient DNA Research. Invited paper In Executive Session "Identity, Belonging, and the Biopolitics of DNA in Colonial Modernity". American Anthropological Association Annual meeting. November 18-22, 2015.
- 2015 **Raff JA**, Miro-Herrans A, Jensen A, Rzhetskaya M, Armstrong L, Hayes MG, Bolnick D. Reconstructing the effects of European contact on North Slope Iñupiat Populations through genetic, archaeological, and ethnohistoric research. Invited Poster Symposium: Thinking anthropologically about genetics. Chair: Bridget FB. Algee-Hewitt

Co-Organizer: Amy Goldberg. 84th annual meeting of the American Association of Physical Anthropologists, St. Louis, Missouri. March 25-28th.

- 2015 Hayes, M., Tackney, J, **Raff, J**, O'Rourke D.H. Current developments in anthropological genetics of the North American Arctic. Multi-generational perspectives on human biology and anthropological genetics: A Symposium in honor of Michael H. Crawford. Invited HBA-AAPA Poster Symposium. Chair: William R. Leonard. 84th annual meeting of the American Association of Physical Anthropologists, St. Louis, Missouri. March 25-28th.
- 2015 Panelist, AAPA/AAAG Education workshop on communication and outreach issues in anthropology. 84th annual meeting of the American Association of Physical Anthropologists, St. Louis, Missouri. March 25-28th.
- 2014 **Raff, J.A.**, and Bolnick, D. Ancient DNA analysis of the prehistoric inhabitants of the Lower Pecos region of Texas. Texas Archaeological Society Annual Meeting, October 2014.
- *2014 **Raff, J.A.**, Rzhetskaya, M.R, and Hayes, M.G. Understanding the colonization of the North American Arctic: Phylogenetic analysis of Y chromosome lineages from Iñupiat populations of the Alaskan North Slope. 83rd annual meeting of the American Association of Physical Anthropologists. Calgary, Alberta, Canada. April 9-12, 2014.
- 2013 **Raff, J.A.**, Rzhetskaya, M.R., and Hayes, M.G. Proposed revisions to human mitochondrial haplogroup phylogenies A2 and D4 based on whole mitochondrial genome sequencing of Alaskan Iñupiat populations. Poster presented at the Society for Molecular Biology and Evolution Annual Meeting, Chicago, IL. July 9-11.
- 2013 Torosin N.S., **Raff, J.A.**, and Hayes, M.G. A genetic test for the effect of the Toba volcanic eruption on worldwide population sizes in animal species. Poster presented at the Society for Molecular Biology and Evolution Annual Meeting, Chicago, IL. July 9-11.
- 2013 **Raff, J.A.**, Rzhetskaya, M.R., and Hayes, M.G. Understanding the colonization of the North American Arctic: The results of whole mitochondrial genome sequencing of Iñupiat populations of the Alaskan North Slope. Paper presented at 82nd Annual Meeting of the American Association of Physical Anthropologists. Knoxville, TN. April 9-13.
- 2013 **Raff, J.A.**, Rzhetskaya, M.R., and Hayes, M.G. Patterns of genetic diversity and shared mitochondrial and Y-chromosome lineages among

- Inupiat communities of the Alaskan North Slope. Paper presented at the annual meeting of the Alaska Anthropological Association. Anchorage, AK. March 13-16.
- 2012 **Raff, J.A.**, Tackney, J.C., Rzhetskaya, M.R., and Hayes, M.G. Analysis of whole mitochondrial genomes from Inupiat populations of the Alaskan North Slope. Poster presented at the 62nd annual meeting of the American Society of Human Genetics. San Francisco, CA. November 6-10.
- 2012 **Raff, J.A.**, Rzhetskaya, M.R., Tackney, J.C., O'Rourke, D.H., and Hayes, M.G. Mitochondrial and Y-chromosome diversity in Inupiat populations of the Alaskan North Slope: Implications for North American Arctic prehistory. Paper presented at the 18th Inuit Studies Conference. Washington, D.C. October 24-28.
- 2012 **Raff, J.A.**, Rzhetskaya, M.R., and Hayes, M.G. Y Chromosome diversity in Inupiat populations of the Alaskan North Slope. Paper presented at the 81st Annual Meeting of the American Association of Physical Anthropologists. Portland, OR. April 12-14.
- 2012 Tackney, J.C., **Raff, J.A.**, Rzhetskaya M.R., Jensen, A.M., O'Rourke, D.H., and Hayes, M.G. Ancient and modern genetic diversity of Inupiat populations from the Alaskan North Slope. Paper presented at the invited symposium: Innovation, Challenges and New Directions in Genetic Research with Indigenous Populations. 81st Annual Meeting of the American Association of Physical Anthropologists. Portland, OR. April 12-14.
- 2012 **Raff, J.A.**, Rzhetskaya, M.R., Tackney, J.C., O'Rourke, D. H., and Hayes, M. G. Human migrations in the Arctic: Mitochondrial DNA evidence for the origins of the Paleo- and Neo- Eskimo peoples. 39th Annual Conference of the Alaskan Anthropological Association. Seattle, WA. February 29-March 3.
- *2011 Tackney, J.C., **Raff, J.A.**, Rzhetskaya, M.R., Hayes, M.G., and O'Rourke, D.H. Ancient and modern genetic diversity of Inupiat populations from the Alaskan North Slope: Insights into Paleo- and Neo-Eskimo origins. Paper presented at the International Conference Comparing Ancient and Modern DNA Variability in Human Populations. Portugal. November 23-25.
- *2011 **Raff, J.A.**, Rzhetskaya, M.R., Armstrong, L., and Hayes, M.G. Increased genetic diversity observed among Inupiat populations from the Alaskan North Slope. Poster presented at the 12th International Congress of Human Genetics. Montreal, Canada. October 11-15.
- *2011 Tackney, J.C., **Raff, J.A.**, Coltrain, J.B., Jensen, A.M., and O'Rourke,

- D.H. Molecular analysis of an ancient Thule population at Point Barrow, Alaska. Poster presented at the 12th International Congress of Human Genetics. Montreal, Canada. October 11-15.
- 2011 **Raff, J.A.**, Tackney, J. C., and O'Rourke, D.H. South from Alaska: An aDNA study of the genetic history of the Alaska Peninsula and Eastern Aleutians. Paper presented at the 80th Annual Meeting of the American Association of Physical Anthropologists. Minneapolis, MN, April 12-16.
- 2011 Millward, G., Harrison, J., **Raff, J.**, Kaestle, F., and Cook, D.C. Measuring the genetic effect of the Mississippian transition in the Lower Illinois River Valley: An ancient DNA analysis. Paper presented at the 80th Annual Meeting of the American Association of Physical Anthropologists. Minneapolis, MN, April 12-16.
- 2010 O'Rourke, D.H., Tackney J.C., and **Raff, J.A.** Ancient DNA insights into American colonization. Paper presented at the Wiley-Blackwell Symposium at the 79th Annual Meeting of the American Association of Physical Anthropologists. Albuquerque, NM. April 14-17.
- 2010 **Raff, J.A.**, Tackney, J.C., and O'Rourke, D.H. South from Alaska: An aDNA study of genetic history on the Alaska Peninsula and Eastern Aleutians. Paper presented at the 18th annual Arctic Conference. Bryn Mawr, PA. November 12-13.
- 2009 **Raff, J.A.**, Marchani, E., and O'Rourke, D.H. mtDNA sequences in prehistoric populations of the Alaska Peninsula: Mink Island and Port Moller. Paper presented at the 17th annual Arctic Conference. Boulder, CO. November 13-14.
- 2008 **Raff, J.A.**, Cook, D.C., Alt, S., and Kaestle, F.A. Gene flow and the Mississippian emergence in the Lower Illinois Valley. Paper presented at the 37th annual Midwestern Archaeology Conference, Milwaukee WI. October 16-19.
- 2008 **Raff, JA**, Kaestle, F.A., and Cook, D.C. Mortuary practices and communicable disease risk: Implications for tuberculosis transmission in pre-Columbian North America. Paper presented at the 35th annual meeting of the Paleopathology Association. Columbus, OH. April 8-9.
- *2008 Kaestle, F.A., **Raff J.A.**, and Millward, G. Kinship in the archaeological record: Ancient DNA insights. Paper presented at the 73rd annual Society for American Archaeology Meetings. Vancouver, BC, Canada. March 26-30.
- *2007 Powell, M.L., Cook, D.C., Langley, M.M., **Raff, J.A.**, and Kaestle, F.A..

- The 'African Queen', a Portuguese mystery. Paper presented at the 2nd annual Paleopathology Association South American Meetings. Santiago, Chile. November 14-16.
- 2007 Cook, D.C., **Raff, J.A.**, Kaestle, F.A., and Garniewicz, R. Rearticulated burials from Pete Klunk Mound 1: A Middle Woodland representation of the honored dead. Paper presented at the 36th annual Midwest Archaeology Conference, Notre Dame, IN. October 4-6.
- 2006 **Raff, J.A.**, Cook, D.C., and Kaestle, F.A. The Madonna and Child Trope: Mortuary practices in Illinois. Paper presented at the 35th annual Midwest Archaeological Conference, Urbana, IL. October 12-15.
- 2006 **Raff, J.A.**, Cook, D.C., Bolnick, D.A., and Kaestle, F.A. The Evolution of tuberculosis in prehistoric North America. Poster presented at the IU & Univ. of Oregon NSF IGERT Minisymposium: Origin of Novel Features. Bloomington, IN. October 6-8.
- 2006 Kaestle, F.A., **Raff, J.A.**, Giesting, K., and Cook, D.C. TB in pre-contact North America: Who had it and what was it? Paper presented at the 75th Annual Meeting of the American Association of Physical Anthropologists, Anchorage, AL. March 5-12.
- 2005 **Raff, J.A.** Fenn, M., Cook, D.C., and Kaestle, F.A. Ancient DNA investigations of Woodland and Mississippian populations in the Lower Illinois Valley. Paper presented at the 104th Annual Meeting of the American Anthropological Association, Washington D.C. November 30 - December 4.
- 2005 **Raff, J.A.**, Cook, D.C., and Kaestle, F.A. Strain analysis and prevalence of tuberculosis in ancient North America; Evidence from the Schild Mississippian cemetery. Paper presented at the 74th Annual Meeting of the American Association of Physical Anthropologists, Milwaukee, WI. April 7-9.
- *2005 Kaestle, F.A., **Raff, J.A.**, and Cook, D.C. Ancient DNA analysis of pre-contact TB. Paper presented at the 1st Paleopathology Association Meetings in South America, Rio de Janeiro, Brazil. July 27-29.
- 2005 **Raff, J.A.**, Chang, S., Kaestle, F.A., and Cook, D.C. The relationship between rib periosteal lesions and tuberculosis complex infection. Poster presented at the 32nd Annual Meeting of the Paleopathology Association, Milwaukee, WI. April 4-6.

Teaching

Courses taught

Undergraduate

Becoming Human
 Controversies on the Living and the Dead
 Laboratory/Field Work in Human Biology
 Fundamentals of Physical Anthropology.
 Information Literacy for Biologists
 Molecular Biology
 Genetics
 Cell biology

Graduate

Critical Analysis of Scientific Literature
 Laboratory Methods in Physical Anthropology
 Grant Writing

Summer Internship for Indigenous Peoples in Genomics (SING) workshop (2014, 2016, 2019).

Student committees

Chair

Student	Degree	Year
Sarah Alden	Ph.D.	Current
Lydia Sykora	Ph.D.	Current
McKenna Lohr	Ph.D.	Current

Member

Deborah Williams	Ph.D.	Current
Bethany Potter	Ph.D.	Current
Jessica Dow	M.A.	Current
Christopher Barrett	Ph.D.	Current
Caroline Kisielinski	Ph.D.	Current
Michael Guarino	Ph.D.	Current
Randy David	Ph.D.	Current
Melody Ratliff Wood	Ph.D.	Current
Anna Wieser	Ph.D.	Current
Pietro De Mello	Ph.D.	Current
Jeff Weinell	Ph.D.	Current
Kamuran Osmanoglu	Ph.D.	2020
Sara Alden	M.A.	2015-2017

Kristine Beaty	Ph.D.	2015-2017
Delisa Phillips	Ph.D.	2015-2017
Amanda Kittoe	Ph.D.	2015-2017

Undergraduate Advising

Students mentored and trained in anthropological genetics laboratory between 2015-2019:

Josie Muskrat	Sion Bell
Alexandra Ewald	Diona Southcott
Savannah Hay	Rachel McCormick
Emily Soludczyk	Schuyler Duncan
Siddarth Sharma	James Tandy
Ryan Thomas	Sion Bell
Mckenzie Cory	

Service

Discipline

2019	NSF panelist
2019-present	President, American Association of Anthropological Genetics
2018-2019	Vice-President, American Association of Anthropological Genetics

University of Kansas - Department of Anthropology

2019	Director of Graduate Studies
	Member of Anthropology Chair Search Committee
2018-2019	Member of Strategic Planning Committee
	Member of Colloquium Committee.
2015, 2016	Member of Undergraduate Committee
	Co-chair of Website and Social Media Committee
	Chair of Learning Outcomes Committee

University of Kansas – Indigenous Studies Program

2020	Member of Indigenous Studies Executive Committee
2020	Indigenous Studies Affiliate Faculty
2019	Member of Langston Hughes Visiting Professor Search Committee

Referee for journals

bioRxiv affiliate

Nature, PNAS, PaleoAmerica, American Journal of Physical Anthropology, American Journal of Human Biology, Genome Research, BMC Evolutionary Biology, Cellular and Molecular Life Sciences, International Journal of Paleopathology.

Media coverage

Appearances on documentaries, radio, and podcasts

August 2018 Archaeological Fantasies podcast
May 3, 2018 BBC “Inside Science”
February 15, 2018 BBC Radio 4 “In the Wake of Wakefield”
January 14, 2018 “The Nature of Things with David Suzuki”. Episode: Ice Bridge.
September 2, 2017 Tides of History Podcast
January 14, 2017 Prism Podcast
August 15, 2016 Archaeological Fantasies podcast
February 29, 2016 Archaeological Fantasies podcast
February 13, 2014 BBC World Service
October 17, 2014 Science for the People podcast.

Appearances in news articles

Sapiens (9/5/19), Alaska Daily News (4/26/19), Nature News (4/16/19), Seattle Times (9/13/18), BBC News (5/3/18), The Atlantic (1/3/18), The Atlantic, (4/27/17), Christian Science Monitor (4/2/16), Washington Post (2/16/16), Science News (11/15/16), Phys.org (1/15/16), Nature (11/15/16), Forbes (5/13/15), Nature News (6/18/15), New York Times (6/18/15), Huffington Post (6/22/15), Nature News (7/21/15), Science 7/21/15, Science News (7/21/15), Boston Globe (7/21/15), National Geographic (8/28/14), Medical News Today (8/22/14), IFLS (6/24/14), Aftenposten (6/5/14), Stern (6/4/14) Science News (5/16/14), Reuters (2/12/14), PeerJ (1/14/14), Nature News (11/2013), LiveScience.com (11/20/13), Los Angeles Times (7/5/2013), LiveScience.com (7/3/2013), Science news (9/23/2011) Mammoth Trumpet (10/2010).