

Kelsey C. Jorgensen

CURRICULUM VITAE

University of Kansas
1415 Jayhawk Blvd. Lawrence, KS 66045
kcjorgensen@ku.edu | www.kelcjorgensen.com | @KelCJorgensen

EDUCATION

2021	Ph.D. Biological Anthropology	Wayne State University
2015	M.Sc. Forensic Anthropology	University of Edinburgh
2014	B.A. Anthropology	San Diego State University

PROFESSIONAL APPOINTMENTS

2025 – Present	Assistant Professor, Department of Anthropology University of Kansas
2024 – 2025	Postdoctoral Scholar, Machine Learning and Computational Biology Sandia National Laboratories
2022 – 2024	Postdoctoral Scholar, Department of Anthropology Quantitative and Computational Biosciences Institute University of California, Los Angeles

PUBLICATIONS

2024	Brutsaert, T.D., Harman, T.S., Bigham, A.W., Kalker, A., Jorgensen, K.C. , Zhu, K.T., Steiner, B., Hawkins, E., Day, T.A., Kunwar, A., Kunwar, N., Dhungel, S., Holmström, P.K. "Larger spleens and greater splenic contraction during exercise may be an adaptive characteristic of Nepali Sherpa at high-altitude." <i>American Journal of Human Biology</i> .
2024	Holmström, P.K., Harman, T.S., Kalker, A., Steiner, B., Hawkins, E., Jorgensen, K.C. , Zhu, K.T., Kunwar, A.J., Thakur, N., Dhungel, S., Sherpa, N., Sherpa, K., Day, T.A., Schagatay, E.K., Bigham, A.W., and Brutsaert, T.D. "Differential Splenic Responses to hyperoxic breathing at high-altitude in Sherpa and Lowlanders." <i>Experimental Physiology</i> .
2023	Jorgensen, K. , Song, D., Weinstein, J., Garcia, O.A., Pearson, L.N., Inclán, M., Rivera-Chira, M., Léon-Velarde, F., Kiyamu, M., Brutsaert, T., Bigham, A.W., Lee, F.S. "High-Altitude Andean H194R HIF2A Allele is a Hypomorphic Allele." <i>Molecular Biology & Evolution</i> .
2023	Jorgensen, K. , Garcia, O. A., Kiyamu, M., Brutsaert, T. D., Bigham, A. W. "Genetic adaptations to potato starch digestion in the Peruvian Andes." <i>American Journal of Biological Anthropology</i> .
2022	Jorgensen, K. , Slank, C., Hurd, K., Lesnik, J. "The origins and practice of insect-foraging technology." <i>Journal of Insects as Food and Feed</i> 8(8): 813-822.
2022	Menéndez, L., Paul, K., de la Fuente, C., Almeida, T., Delgado, M., Figueiro, G., Jorgensen, K. , Kuzminsky, S., López-Sosa, M.C., Nichols, J., Roksandic, M., Scott, G.R., O'Rourke, D., Hubbe, M. "Toward an interdisciplinary perspective for the study of human expansions and

- biocultural diversity in the Americas – Debates at an invited Symposium from the 90th Annual meeting of the AAPA.” *Evolutionary Anthropology*.
- 2020 **Jorgensen, K.**, Mallon, L., and Kranioti, E. “Testing Inter- and Intra- Observer Agreement of the Original and Revised Coimbra Methods,” *International Journal of Osteoarchaeology*.
- 2020 **Jorgensen, K.**, "The Detroit People Mover Faunal Assemblage: Diets of Wealthy 19th- to Early 20th- Century Urban Neighborhoods." *The Michigan Archaeologist*: Vol. 60 (2014).
- In review* Zhu, K., **Jorgensen, K.**, Weinstein, J., Kiyamu, M., Elías, G., Isherwood, J., Breidenstein, A.M., Garcia, O., Gerdes, G., Pearson, L., Lee, F.S., Rivera-Ch, M., Leon-Velarde, F., Brutsaert, T.D., Bigham, A.W. “Genomic evidence for natural selection underlying high-altitude adaptive hemoglobin levels among Peruvian Andeans.” *Genome Biology & Evolution*.
- In review* Harman, T.S., DeBlois, J.P., Bartman, N., Holmström, P.K., **Jorgensen, K.C.**, Kalker, A., Kiyamu, M., Zhu, K.T., Kunwar, A.J., Thakur, N., Dhungel, S., Sherpa, N., Bigham, A.W., Brutsaert, T.D. “A direct comparison of nitric-oxide-mediated vasodilation in high altitude Andeans and Tibetans.” *American Journal of Biological Anthropology*.
- In review* Manske, G., Tower, C.A., Ferrell, E.L., **Jorgensen, K.**, Ma, B., Aboelenain, M., Tower, C., Chakraborty, S., Moritz, L., Rabbani, M., Bazzano, D., Xie, W., Ranjan, R., Das, A., Chavez, S., Boiani, M., Lampson, M.A., Black, B.E., Schindler, K., Chen, X., Hammoud, S.S. “Equalization and expansion of epigenetically imprinted centromeres is critical for normal mammalian embryo development.” *Cell*.
- In review* Frost, I.M., Ma, R., Florida, M., Duggan, E., Cai, K., **Jorgensen, K.**, Weiss, P.S., Jonas, S.J. “Membrane Repair Following Filtration-Induced Cell Permeabilization.” *iScience*.
- In review* Daly, A.E., Chang, A.B., Purbey, P., Williams, K.J., Yeh, G., Li, S., Pope, S.D., Venkatesh, B., Redelings, B.D., Li, S., Nguyen, K., Rodriguez, J., **Jorgensen, K.**, Siggers, T., Chen, L., Smale, S.T. “Stepwise neofunctionalization of the NF-κB family member c-Rel during vertebrate evolution.” *Nature Immunology*.

GRANTS AND FELLOWSHIPS

2023 – 2024	Leakey Foundation Research Grant
2023 – 2024	Wenner-Gren Post PhD Research Grant
2022 – 2024	Quantitative and Computational Biosciences Fellowship, UCLA
2020 – 2021	Wenner-Gren Foundation Dissertation Fieldwork Grant
2020 – 2021	Wayne State University Graduate School Tuition Fellowship
2019 – 2020	Thomas C. Rumble Fellowship, Wayne State University
2018 – 2019	Graduate Research Assistantship, Wayne State University
2016 – 2018	Graduate Teaching Assistantship, Wayne State University

AWARDS AND HONORS

2023	Chancellor’s Award for Excellence in Postdoctoral Research, <i>Elected by Anthropology Department at University of California, Los Angeles</i>
2020	Coleman ‘Steve’ Demeter Memorial Anthropology Museum Award,

Wayne State University

- 2020 Summer 2020 Dissertation Award, *Wayne State University*
 2019 Graduate School Research Award, *Wayne State University*
 2018 Pollitzer Student Award, *American Association of Physical Anthropology*
 2016 – 2021 Anthropology Professional Development Award, *Wayne State University*
 2015 Abercromby Fund Scholarship, *University of Edinburgh*
 2013 Associated Students Study-Abroad Award, *San Diego State University*

CONFERENCE PRESENTATIONS

- 2025 **Jorgensen, K.** “The impact of human dietary adaptation on global genetic variation.” AABA.
- 2025 Scheer, K., Landau, L., Jorgensen, K., Brutsaert, T., Leon-Velarde, F., Rivera-Chira, M., Kiyamu, M., Pearson, L.N., Osborne, C., Morales-Rivera, A.M., Karageorgiou, C., Siao, L., Alkan, C., Bigham, A.W., Gokcumen, O. “Adaptive Increase of Amylase Gene copy Number in Peruvians Driven by Starch-rich Diets.” AABA.
- 2025 Young, E., **Jorgensen, K.**, Battista, V.M., Kiyamu, M., Leon-Velarde, F., Shriver, M., Isherwood, J., Garcia, O.A., Pearson, L.N., Brutsaert, T., Bigham, A.W. “eQTL analysis of cold adaptation regulation in Peruvian Quechua populations.” AABA.
- 2025 Harman, T.S., Holmström, P.K., **Jorgensen, K.C.**, Kalker, A., Kiyamu, M., Zhu, K.T., Bigham, A.W., Brutsaert, T.D. “High altitude adaptation among Andeans and Tibetans: a mixed-methods analysis.” HBA.
- 2024 Moehling, T.J., **Jorgensen, K.**, Krishnakumar, R., Verzi, S., Levin, D., Boren, D.M., Kairon, K.K., Aubin, J., Meagher, R.J. “Biophysics- and Biochemistry-Informed Machine Learning to Predict the Effect of Nucleotide Mutations on Molecular Detection Assays.” Defense Threat Reduction Agency: Chemical and Biological Defense.
- 2024 Manske, G., Tower, C.A., Ferrell, E.L., **Jorgensen, K.**, Ma, B., Aboelenain, M., Tower, C., Chakraborty, S., Moritz, L., Rabbani, M., Bazzano, D., Xie, W., Ranjan, R., Das, A., Chavez, S., Boiani, M., Lampson, M.A., Black, B.E., Schindler, K., Chen, X., Hammoud, S.S. “Equalization and expansion of epigenetically imprinted centromeres is critical for normal mammalian embryo development.” Centromere Biology: GRC.
- 2024 Scheer, K., **Jorgensen, K.**, Brutsaert, T., Bigham, A.W., Gokcumen, O. “A Potentially Adaptive Increase in *AMY1* Copy Number in Andean Populations.” AABA.
- 2023 Scheer, K., **Jorgensen, K.**, Brutsaert, T., Bigham, A.W., Gokcumen, O. “An Increased *AMY1* Copy Number in Andean Populations.” Great Lakes Annual Meeting of Evolutionary Genomics.
- 2023 **Jorgensen, K.C.**, Bigham, A.W. *Invited Symposium: “Toward a holistic approach – Investigating the genetic underpinnings of phenotypic variation”*: “Leveraging genomic signals of natural selection to identify genotype-phenotype associations in Andean highlanders.” AABA.
- 2023 Harman, T.S., Holmström, P.K., **Jorgensen, K.C.**, Kalker, A., Kiyamu, M., Zhu, K.T., Day, T.A., Bigham, A.W., Brutsaert, T.D. “Oxygen transport phenotypes and the adaptive modes of Andean versus Tibetan highland native populations.” AABA.
- 2022 Tower, C., Manske, G., **Jorgensen, K.**, Chakraborty, S., Ma, B., Abo-Elenin, M., Schon, S., Black, B., Schindler, K., Chen, X., Hammoud S.S. “Early

- Embryos Employ a Unique Mechanism of CENP-A Equalization during the First Cell Cycle." ASHG.
- 2022 **Jorgensen, K.C.**, Garcia, O.A., Kiyamu, M., Elías, G., Ghosh, S., Bartman, N., Evans, K., Weinstein, J., Inclán, M., Pearson, L., Rivera-Chira, M., Leon-Velarde, F., Brutsaert, T.D., Bigham, A.W. "Detecting Andean patterns of adaptation to high altitude using whole genome data." AAA.
- 2021 Manske, G., **Jorgensen, K.**, Chakraborty, S., Hammoud, S.S. "Centromeric Nucleosome are not Maintained Epigenetically during Gametogenesis and early Embryogenesis." Society for the Study of Reproduction.
- 2021 **Jorgensen, K.C.**, Garcia, O.A., Kiyamu, M., Rivera-Chira, M., Leon-Velarde, F., Brutsaert, T.D., Bigham, A.W. "Genetic adaptations to potato starch digestion in the Peruvian Andes." AABA.
- 2020 (Accepted, cancelled due to Covid) **Jorgensen, K.C.**, Fan, C., Alcázar, J., Morón, N.M., Cobián, C.V., Lesnik, J.J. "Interpreting ancient human migration in the Peruvian Andes with co-evolutionary insect genetics." AABA.
- 2020 **Jorgensen, K.C.**, Fan, C., Alcázar, J., Morón, N.M., Cobián, C.V., Lesnik, J.J. "Migration patterns of ancient human potato-grower populations in the Peruvian Andes using co-evolutionary insect genetics." WSU Graduate and Postdoctoral Research Symposium.
- 2020 **Jorgensen, K.C.**, Fan, C., Alcázar, J., Morón, N.M., Cobián, C.V., Lesnik, J.J. "Tracing ancient human migration in the Peruvian Andes through co-evolutionary insect genetics." Annual Midwest Conference on Andean and Amazonian Archaeology and Ethnohistory.
- 2019 "Mummies, Skeletons, and Museums: Representing human remains to the public." Cleveland Museum of Natural History, Inside Science Lecture.
- 2019 Briggs, E.A., **Jorgensen, K.C.**, Bria, R.E., Sharp, E.A., Pink, C. "Estimating the minimum number of individuals (MNI) from a looted, commingled, context in Hualcayán, Peru." AABA.
- 2019 **Jorgensen, K.C.**, Briggs, E.A., Bria, R.E., Sharp, E.A., Pink, C. "Determining minimum number of individuals (MNI) from a looted and commingled bioarchaeological site in Hualcayán, Peru." Annual Midwest Conference on Andean and Amazonian Archaeology and Ethnohistory.
- 2018 **Jorgensen, K.C.**, "Let Them Eat Pigeon!: Three faunal assemblages from 19th-20th century wealthy Detroit neighborhoods." AAA.
- 2018 **Jorgensen, K.C.** "Mummies, Skeletons, and Museums: Representing human remains to the public." American Association of Physical Anthropologists.
- 2017 **Jorgensen, K.C.** "Displaying the Dead: Assessing Agency Through Museum Linguistic Practices." AAA.
- 2017 McCullen, M., Slank, C., **Jorgensen, K.** "Midwestern Archaeological Collections at the Gordon L. Grosscup Museum of Anthropology." MAC.
- 2017 **Jorgensen, K.C.**, Mallon, L., Kranioti, E. "Original and Revised Coimbra Method for Recording Entheseal Change: A Test of Reproducibility." AABA.

TEACHING EXPERIENCE

University of California, Los Angeles

- 2023, 2024 **Instructor**, Variant Calling with GATK, QCBio Collaboratory Workshop
- 2022, 2023 **Instructor**, Genetic Analysis (VCF-Plink), QCBio Collaboratory Workshop
- 2022 **Co-Instructor**, Intro to R and Data Visualization, QCBio Collaboratory Workshop

Wayne State University

2020 Graduate Teaching Assistant, ANT 3100: World Cultures
 2018 **Instructor**, ANT 2110: Introduction to Physical Anthropology
 2017 Graduate Teaching Assistant, ANT 5180: Forensic Anthropology
 2016, 2017 Graduate Teaching Assistant, ANT 2110: Introduction to Physical Anthropology

FIELDWORK

2022 – 2023 High-Altitude Adaptation in Pheriche, Nepal, Himalayas
 UCLA, Syracuse University, Mount Royal University
 2018 Excavation at Old Hamtramck Center Site, MI, USA, Wayne State University
 2018 PIARA: Investigación Arqueológico en Hualcayán, Peru
 2015 Poulton Project in Chester, England
 2015 Venetian Period Bioarchaeological Analysis in Crete, University of Edinburgh
 2013 Sanisera Institute in Menorca

MUSEUM EXPERIENCE

2016 – 2018 Gordon L. Grosscup Museum of Anthropology, Wayne State University
 Edible Insects and Sustainability' Mini-Exhibit
 2014 – 2015 University of Edinburgh Human Osteology Collections
 2014 – 2015 National Trust for Scotland Human Osteology Collections
 2014 – 2015 Anatomical Museum, University of Edinburgh
 2010 – 2012 'Race: Are We So Different?' Exhibit, San Diego Museum of Man

PROFESSIONAL SERVICE

2024 *Media* "Humans and Carbs: A Complicated 800,000-Year Relationship" *MedScape*
 2022, 2024 Ad-Hoc Reviewer, *Insects, Evolutionary Anthropology*
 2022 – 2023 Ad-Hoc Reviewer, Graduate Women in Science (GWIS) Grant Fellowship
 2019 – 2020 Grad Committee Representative, Anthro. Grad. Student Organization, WSU
 2019 Organizer, 5th Annual Transformations Anthropology Conference, WSU
 2018 – 2019 President, Anthropology Graduate Student Organization (AGSO), WSU
 2016 – 2018 Faculty Committee Representative, Anthro. Grad. Student Organization
 2018 Organizer, 4th Annual Transformations Anthropology Conference, WSU
 2017 Organizer, 40th Annual Midwest Conf. on Mesoamerican Arch. and Ethnohistory
 2016 Organizer, 12th Annual Midwest Historical Archaeology Conference

PROFESSIONAL MEMBERSHIPS

2025 – Present American Society of Human Genetics (ASHG)
 2019 – Present American Association of Anthropological Genetics (AAAG)
 2015 – Present American Association of Biological Anthropology (AABA)