Andrew Kitchen
Anthropology

Curriculum Vitae as of 2024 February 17

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EDUCATION AND PROFESSIONAL HISTORY

Post Graduate Education

2008 - 2012 **Postdoctoral Scholar**, The Pennsylvania State University, Center for Infectious Disease Dynamics, Biology Department, the Holmes Laboratory
Mentor(s): Holmes, Edward C

Higher Education

2008 **PhD**, Anthropology, University of Florida
Thesis: Inferences of recent and ancient human population history using genetic and non-genetic data
2004 **MA**, Anthropology, University of Florida
2003 **MSc**, Biology, University of Oxford
Thesis: The viability of viral gene sequences as markers of human population history
2001 **BS**, Biomedical Engineering, The Johns Hopkins University
Supporting Areas / Minor: Computer Science

Professional and Academic Positions

2018 - Present **Associate Professor**, Department of Anthropology, University of Iowa
2012 - 2018 **Assistant Professor**, Department of Anthropology, University of Iowa
2007 - 2008 **Graduate Research Assistant**, Department of Anthropology, University of Florida
2004 - 2005 **Graduate Teaching Assistant**, Department of Anthropology, University of Florida

Honors and Awards

2002 - 2007 **Alumni Fellowship**, University of Florida, tuition, fees and $14,000 stipend per annum
1997 - 2001 **National Merit Scholar**, The Johns Hopkins University, $2,000 per annum

Memberships

American Association of Anthropological Genetics
American Association of Biological Anthropology

TEACHING

Courses Taught at the University of Iowa

Term	Course	Title	Ten-Day Enrollment	Final Enrollment
Spring 2024	ANTH:2320	Origins of Human Infectious Disease	60	

Term	Course	Title	Ten-Day Enrollment	Final Enrollment
Spring 2024	ANTH:2390	Lab Methods in Biological Anthropology	1	
Spring 2024	ANTH:3015	Independent Study	3	
Spring 2024	ANTH:6005	Independent Study – Anthropology	1	
Spring 2024	ANTH:6015	Thesis	1	
Fall 2023	ANTH:1301	Human Origins		127
Fall 2023	ANTH:2390	Lab Methods in Biological Anthropology		2
Fall 2023	ANTH:3015	Independent Study		1
Fall 2023	ANTH:4995	Honors Research Seminar		2
Fall 2023	ANTH:6005	Independent Study – Anthropology		1
Fall 2023	ANTH:6015	Thesis		1
Fall 2023	IGPI:6520	Research for Dissertation		1
Spring 2023	ANTH:1301	Human Origins	146	130
Spring 2023	ANTH:3015	Independent Study	1	1
Spring 2023	ANTH:3328	Molecular Genetics of Human Disease	20	20
Spring 2023	ANTH:6006	Independent Study – Anthropology	1	1
Spring 2023	ANTH:6010	Research Anthropology	1	1
Spring 2023	IGPI:6520	Research for Dissertation	1	1
Spring 2023	MICR:3150	Eukaryotic Pathogens and Human Disease	24	24
Spring 2023	MICRO:6240	Grad Eukaryotic Pathogens and Human Disease	2	2
Fall 2022	ANTH:5110	Anthropological Data Analysis	4	4
Fall 2022	ANTH:3015	Independent Study	1	1
Fall 2022	ANTH:6005	Independent Study: Anthropology	1	1
Fall 2022	ANTH:2009	Individual Study	1	1
Fall 2022	ANTH:1001	Issues in Anthropology – Forensic Anthropology	27	27
Fall 2022	ANTH:2320	Origins of Human Infectious Disease	76	76
Fall 2022	ANTH:6010	Research Anthropology	1	1
Fall 2022	IGPI:6520	Research for Dissertation	1	1
Spring 2022	MICR:3150	Eukaryotic Pathogens and Human Disease	23	23
Spring 2022	MICRO:6240	Grad Eukaryotic Pathogens and Human Disease	3	3
Spring 2022	ANTH:1301	Human Origins	111	111
Spring 2022	ANTH:3015	Independent Study	1	1

Term	Course	Title	Ten-Day Enrollment	Final Enrollment
Spring 2022	ANTH:2390	Lab Methods in Biological Anthropology	1	1
Spring 2022	ANTH:6010	Research Anthropology	1	1
Spring 2022	IGPI:6520	Research for Dissertation	1	1
Fall 2021	ANTH:2320	Origins of Human Infectious Disease	66	66
Fall 2021	IGPI:6520	Research for Dissertation	1	1
Fall 2021	ANTH:5301	Seminar: Biological Anthropology	4	4
Fall 2021	URES:3992	Undergraduate Research / Creative Projects	1	1
Spring 2021	ANTH:5110	Anthropological Data Analysis	6	6
Spring 2021	ANTH:1301	Human Origins	146	146
Spring 2021	ANTH:2390	Lab Methods in Biological Anthropology	3	3
Spring 2021	IGPI:6520	Research for Dissertation	1	1
Fall 2020	ANTH:6005	Independent Study: Anthropology	1	1
Fall 2020	ANTH:2320	Origins of Human Infectious Disease	64	71
Fall 2020	IGPI:6520	Research for Dissertation	1	1
Summer 2020	ANTH:6010	Research Anthropology	1	1
Spring 2020	IGPI:6520	Research for Dissertation	1	1
Fall 2019	ANTH:4996	Honors Research	1	1
Fall 2019	ANTH:3015	Independent Study	1	1
Fall 2019	ANTH:6005	Independent Study: Anthropology	1	1
Fall 2019	ANTH:2390	Lab Methods in Biological Anthropology	1	1
Fall 2019	ANTH:2320	Origins of Human Infectious Disease	74	74
Fall 2019	ANTH:6010	Research Anthropology	1	1
Fall 2019	IGPI:6520	Research for Dissertation	1	1
Fall 2019	ANTH:5301	Seminar: Biological Anthropology	6	6
Summer 2019	ANTH:6005	Independent Study: Anthropology	1	1
Spring 2019	ANTH:5110	Anthropological Data Analysis	6	6
Spring 2019	ANTH:4996	Honors Research	1	1
Spring 2019	ANTH:3325	Human Evolutionary Genetics	15	15
Spring 2019	ANTH:3015	Independent Study	2	2
Spring 2019	ANTH:6005	Independent Study: Anthropology	1	1
Spring 2019	IGPI:6520	Research for Dissertation	1	1
Fall 2018	ANTH:3015	Independent Study	3	3
Fall 2018	ANTH:6005	Independent Study: Anthropology	0	1

Term	Course	Title	Ten-Day Enrollment	Final Enrollment
Fall 2018	ANTH:3328	Molecular Genetics of Human Disease	15	15
Fall 2018	ANTH:2320	Origins of Human Infectious Disease	71	65
Fall 2018	IGPI:6520	Research for Dissertation	1	1
Summer 2018	ANTH:6005	Independent Study: Anthropology	1	1
Spring 2018	ANTH:1301	Human Origins	168	146
Spring 2018	ANTH:3015	Independent Study	1	1
Spring 2018	ANTH:2390	Lab Methods in Biological Anthropology	1	1
Spring 2018	IGPI:6520	Research for Dissertation	1	1
Spring 2018	ANTH:5301	Seminar: Biological Anthropology	7	7
Fall 2017	ANTH:3325	Human Evolutionary Genetics	13	12
Fall 2017	ANTH:2390	Lab Methods in Biological Anthropology	1	1
Fall 2017	ANTH:2320	Origins of Human Infectious Disease	55	52
Fall 2017	IGPI:6520	Research for Dissertation	1	1
Spring 2017	ANTH:5110	Anthropological Data Analysis	9	9
Spring 2017	BIOL:1061	Big Ideas: Evol and Life in the Universe	80	74
Spring 2017	ANTH:6005	Independent Study: Anthropology	1	1
Spring 2017	ANTH:2390	Lab Methods in Biological Anthropology	2	2
Spring 2017	IGPI:6520	Research for Dissertation	1	1
Fall 2016	ANTH:1301	Human Origins	148	133
Fall 2016	ANTH:2390	Lab Methods in Biological Anthropology	1	1
Fall 2016	ANTH:2320	Origins of Human Infectious Disease	47	42
Fall 2016	IGPI:6520	Research for Dissertation	1	1
Summer 2016	ANTH:3015	Independent Study	1	1
Spring 2016	BIOL:1061	Origins of Life in the Universe (Part 2)	78	77
Spring 2016	IGPI:6520	Research for Dissertation	1	1
Spring 2016	ANTH:5301	Seminar: Biological Anthropology	9	9
Spring 2016	MICRO:7269	Grad Topics in Viral Biology/Pathogenesis	1	1
Fall 2015	ANTH:3015	Independent Study	2	2
Spring 2015	ANTH:3328	Molecular Genetics of Human Disease	6	6
Spring 2015	ANTH:2320	Origins of Human Infectious Disease	36	33
Spring 2015	GRAD:7400	Practicum in College Teaching	1	1
Fall 2014	HONR:3200	Honors Research Practicum	1	1
Fall 2014	ANTH:3326	Infectious Disease and Human Evolution	20	19

Term	Course	Title	Ten-Day Enrollment	Final Enrollment
Spring 2014	113:013	Human Origins	74	71
Spring 2014	113:183	Independent Study	1	1
Spring 2014	213:090	Origins of Human Infectious Disease	41	37
Fall 2013	113:176	Honors Research	1	1
Fall 2013	213:151	Human Evolutionary Genetics	4	4
Fall 2013	213:153	Infectious Disease and Human Evolution	11	10
Spring 2013	113:013	Human Origins	72	70
Spring 2013	213:090	Origins of Human Infectious Disease	17	16
Fall 2012	213:151	Human Evolutionary Genetics	17	16

Innovations in Teaching (Other Teaching Contributions)

Outreach Teaching

2023 Co-organizer (with Maurine Neiman and Andrew Forbes) of Senior College course titled 'Understand Evolution: from Molecules to Ecosystems' (https://www.foriowa.org/senior-college/pdfs/Fall_2023_Courses.pdf)

Guest Lecture

2023 Guest lecture for BI:191 Forensic Anthropology at Illinois College (instructor: Miranda Karban) titled "Forensic Genetics"

2022 Guest lecture in ANTH:1000 A Tour of Biological Anthropology (instructor: Lara Noldner) titled "Genetic Perspectives on Modern Human Origins, Dispersals, and Behaviors"

2022 Genetics Cluster Initiative / IIHG Summer MOOC on Human Genetics (organizer: Richard Smith) titled "Identifying Ancient Disease and Health: The Antiquity of Human Infections"

2021 Guest lecture in IMMU:7221 Advanced Topics in Immunology (instructor: Mary Wilson) titled "Molecular Phylogenetics"

2021 Guest lecture in ANTH:1000 A Tour of Biological Anthropology (instructor: Lara Noldner) titled "Genetic Perspectives on Modern Human Origins, Dispersals, and Behaviors"

2021 Genetics Cluster Initiative / IIHG Summer MOOC on Human Genetics (organizer: Richard Smith) titled "Identifying Ancient Disease and Health: The Antiquity of Human Infections"

2021 Guest lecture for BI:191 Forensic Anthropology at Illinois College (instructor: Miranda Karban) titled "Forensic Genetics"

2020 Guest lecture in ANTH:1000 A Tour of Biological Anthropology (instructor: Lara Noldner) titled "Genetic Perspectives on Modern Human Origins, Dispersals, and Behaviors"

2020 Guest lecture in Medical Scientist Training Program (MSTP) at the University of Wisconsin-Madison (instructor: Caitlin Pepperell) titled "Phylodynamics"

2020 Genetics Cluster Initiative / IIHG Summer MOOC on Human Genetics (organizer: Richard Smith) titled "Identifying Ancient Disease and Health: The Antiquity of Human Infections"

2019 Guest lecture in ANTH:2164 Culture/Healing for Health Professionals (instructor Erica Prussing) titled "Medical Anthropology: A Genetic Approach"

2019 Guest lecture in ANTH:1000 A Tour of Biological Anthropology (instructor: Lara Noldner) titled "Genetic Perspectives on Modern Human Origins, Dispersals, and Behaviors"

2019 Guest lecture in Secondary Student Training Program (SSTP) (organizer: Charles Netzer) titled "Identifying Ancient Disease and Health: The Antiquity of Human Infections"

2019 Iowa Institute of Human Genetics Career Day (organizer: Richard Smith) titled "Potholes to Pandemics (and all points in between)"

2019 Genetics Cluster Initiative / IIHG Summer MOOC on Human Genetics (organizer: Richard Smith) titled "Identifying Ancient Disease and Health: The Antiquity of Human Infections"

2019 Guest lecture in BIOL:3172 Evolution (instructor: Maurine Neiman and Ana Llopart) titled "Human Evolution 2"

2019 Guest lecture in BIOL:3172 Evolution (instructor: Maurine Neiman and Ana Llopart) titled "Human Evolution 1"

2019 Guest lecture in ANTH:2164 Culture/Healing for Health Professionals (instructor Erica Prussing) titled "Medical anthropology: A Genetic Approach"

2018 Guest lecture in ANTH:3260 Pleistocene Peopling of the Americas (instructor Matt Hill) titled "Genetic Inferences of The Peopling of the Americas" on 13 September 2018.

2018 "Phylogeography of Mycobacterium tuberculosis: from empire to the recent rise of multi-drug resistant TB" for rEvo journal club presentation in Biology Department.

2018 Guest lecture in the Genetics Cluster Summer Short Course on Genetics titled "Phylogeography of Mycobacterium tuberculosis: from empire to the recent rise of multi-drug resistant TB" on 13 June 2018

2018 "Phylogeography of African Taxa" for rEvo journal club presentation in Biology Department, University of Iowa

2018 Guest lecture for ANTH:1061 Big Ideas: Evol and Life in the Universe (instructors Andrew Forbes, Russell Ciochon, Mary Kosloski, and Cornelia Lang) titled "Agriculture, Modern Behavior, and Chronic Disease" on 29 March 2018.

2018 Guest lecture in EPID:5550 Introduction to Molecular Epidemiology (instructor Wei Bao) titled "Phylogenetic and Coalescent Approaches to Studying the Epidemiology of Infectious Disease" on 21 March 2018

2018 Guest lecture in HIST:6002 History Research Methods'(instructor James Giblin) titled "Genetic Approaches to History" on 6 March 2018

2018 Guest lecture in BIOL:4373 Molecular Evolution (Instructor John Logsdon) titled "Approximate Bayesian Computation" on 15 February 2018

2018 Guest lecture in BIOL:4373 Molecular Evolution (Instructor John Logsdon): "The Coalescent" on 13 February 2018

2018 Guest lecture in ANTH 4953: Advanced Topics in Human Evolution at University of Oklahoma titled "Evolutionary History of the Afroasiatic Language Family"

2017 Guest lecture in ANTH:2164 Culture/Healing for Health Professionals (instructor Erica Prussing) title "Genetic approaches to medical anthropology"

2017 Guest lecture in ANTH:1000 First-Year Seminar: A Tour of Biological Anthropology (instructor Lara Noldner) titled "Genetics and human history"

2017 "The Long History of Native Americans and Their Canine Companions" for rEvo journal club presentation in Biology Department, University of Iowa

2017 Genetics Cluster Initiative / IIHG Summer MOOC on Human Genetics (organizer: Richard Smith) titled "Identifying Ancient Disease and Health: The Antiquity of Human Infections"

2017 "Emerging Bugs: Systematic Overestimates of the Age of Bacterial Infections in Humans" for rEvo journal club presentation in Biology Department, University of Iowa

2016 Guest lecture in ANTH:3260 Pleistocene Peopling of the Americas (instructor Matt Hill)

2016 Guest lecture in MICR:4169 Topics in Viral Biology and Pathogenesis (instructor: Wendy Maury) titled "Phylogenetics, the coalescent, and tree-thinking"

2015 Guest lecture in ANTH:1000 First-Year Seminar: A Tour of Biological Anthropology (instructor Lara Noldner) titled "Genetics and human history"

2015	Guest lecture in ANTH:2164 Culture/Healing for Health Professionals (instructor Erica Prussing) titled "Genetic approaches to medical anthropology"
2015	Guest lecture in ANTH:1061 Origins of Life in the Universe (Part 2) (instructor Andrew Forbes) titled "Human infectious disease"
2015	Guest lecture in EPID:5560 Introduction to Molecular Epidemiology (instructor Margaret Chorazy) titled "Phylogenetic and coalescent methods"
2015	Guest lecture in BME:2010 Professional Seminar Biomed Engineering (instructor David Wilder) titled "Biomedical engineering and evolutionary biology"
2014	Guest lecture in ANTH:1001 Issues in Anthropology: Anthropological Forensics (instructor Miranda Karban) titled "Forensic Genetics"
2014	Guest lecture in ANTH:2164 Culture/Healing for Health Professionals (instructor Erica Prussing) titled "Medical Anthropology: A Genetic Approach"
2014	Guest lecture in Genes, Culture, and Human Diversity at Washington State University (instructor Brian Kemp) titled "Evolutionary history of the Afroasiatic language family"
2014	Guest lecture in ANTH:5301 Seminar Biological Anthropology (instructor Russell Ciochon) titled "Genetic anthropology"
2014	Guest lecture in ANTH:5301 Seminar Biological Anthropology (instructor Russell Ciochon) titled "Biological anthropological theory"
2014	Guest lecture in 127:173 Computational Genomics (instructor Thomas Casavant) titled "Phylogenetics"
2014	Guest lecture in 187:020 Introduction to International Studies (instructor Michael Zmolek) titled "Anthropology as an International Discipline"
2013	Guest lecture in 127:173 Computational Genomics (instructor Thomas Casavant) "Phylogenetics"
2012	Guest lecture in 113:130 Tribes and Chiefdoms of Ancient Europe (instructor Katina Lillios) titled "European genetics and the origins of Indo-European languages"

Student Mentoring

PhD - Dissertation Committee Chair

2017 - Present	Thomas, Ariane; *All But Dissertation*
2015 - Present	Wilson, Mary; *All But Dissertation*

PhD - Dissertation Committee Member

2022 – Present	Derick Juptner; *In Process*
2022 – Present	Tang, Austin; *In Process*
2020 – Present	Moore, Logan; *In Process*
2018 - 2023	Hippee, Alaine; *Completed*
2019 - 2022	Jalinksy, Joseph; *Completed*
2018 - 2022	Kim, Seungwon; *Completed*
2017 - 2022	Ward, Anna; *Completed*
2017 - 2021	Koomar, Tanner; *Completed*
2016 - 2021	Pettie, Nikale; *Completed*
2016 - 2020	Woods, Emma; *Completed*
2015 - 2020	Marks, Tarah; *Withdrawn*

2015 - 2019	McElroy, Kyle; *Completed*
2014 - 2019	Capobianco, Paul; *Completed*
2015 - 2018	Newbury, Elizabeth; *Withdrawn*
2014 - 2018	Tvedte, Eric; *Completed*
2015 - 2017	Bankers, Laura; *Completed*
2014 - 2017	Young, Sean; *Completed*
2012 - 2017	Avalos, Toby; *Completed*
2013 - 2016	Villanea, Fernando; Washington State University (WA); *Completed*
2012 - 2016	Karban, Miranda; *Completed*

PhD - Directed Individual/Independent Study

Fall 2022 – Fall 2023	Tang, Austin; *Completed*
Spring 2017	Kim, Seungwon; *Completed*

MA - Master's Thesis Committee Chair

2022 – Present	Szamanski, Tristan; *In Process*
2022 – Present	Johnsen, Danielle; *In Process*
2022 – Present	Cross, Mackenzie; *In Process*
2018 – 2020	McKinney, Joshua; *Completed*
2015	Richie, Joshua; *Withdrawn*

MA - Master's Thesis Committee Member

2022 – 2023	Renquist, Wren; *Completed*
2020 – 2021	Tang, Austin; *Completed*
2018 – 2020	Moore, Logan; *Completed*
2016 - 2018	McCracken, Sarah; *Completed*

MPH - Master's Thesis Committee Member

2016 - 2017	Anderson, Bryan; *Completed*
2015 - 2016	Jasper, Elizabeth; *Completed*

MA – Directed Individual/Independent Study

Fall 2020	Tang, Austin; *Completed*

Undergraduate - Honors Thesis

Fall 2019 – Spring 2020	Cross, Mackenzie; *Completed*
Fall 2018 – Spring 2020	Justmann, Meghan; *Withdrawn (from Honors)*

Fall 2013	Jasper, Elizabeth; *Completed*

Undergraduate – Supervised Research / Directed Individual or Independent Study

Fall 2023 – Present	Ford, Rachel; University of Iowa; *In Process*
Spring 2023 – Present	Seren Castellano; University of Iowa; *In Process*
Fall 2022 – Present	Snyder, Gabriella; University of Iowa; *In Process*
Summer 2023	Kaldahl, Thomas; Rice University (TX); *Completed*
Summer 2023	Krishnamoorthy, Prithivi; Ohio State University (OH); NSF REU; *Completed*
Summer 2023.- Fall 2023	Bouslog, Chelsea; University of Iowa; *Completed*
Fall 2022	Zine, Amy; University of Iowa; *Completed*
Summer 2022	Kaldahl, Thomas; Rice University (TX); *Completed*
Summer 2022	Zine, Amy; University of Iowa; NSF REU; *Completed*
Spring 2022	Zine, Amy; University of Iowa; *Completed*
Spring 2022	Wold, Arthur; University of Iowa; *Completed*
Summer 2019	Jonguitud, Alex; University of South Carolina - Beaufort (SC); NSF REU; *Completed*
Summer 2019	Price, Isiaha; Amherst College (MA); NSF REU; *Completed*
Spring 2019 – Spring 2020	Wold, Arthur; *Completed*
2018 - 2020	Xu, Jiangchun; *Completed*
Fall 2018 - Spring 2019	Jones, Kayla; University of Iowa; *Completed*
Fall 2018	Meyer, Jeremiah; University of Iowa; *Completed*
Spring 2018	Niles, Michael; University of Iowa; *Completed*
Spring 2017	Ruba, Emily; *Completed*
Spring 2017	Vo, Tracy; *Completed*
Fall 2015	Balakrishnan, Anubhav; *Completed*
Fall 2015	Porter, Allison; *Completed*
2014 – 2015	Moscatel, Christina; *Completed*
2014	Nielsen, Daniel; *Completed*
2014	Rivera-Gonzalez, Joyce; *Completed*

Undergraduate - Internship Advisor

May - July 2016	Brennan, John; *Completed*
May - July 2016	Schiro, Kelly; *Completed*
May - August 2013	Antrim, Amelia; *Completed*
May - August 2013	Jasper, Elizabeth; *Completed*

Secondary School Students - Internship Advisor

January 2024 – Present	Ford, Zsigmond; City High School, Iowa City
July 2023 – August 2023	Ford, Zsigmond, Workplace Learning Connection is a program to place high school students in academic labs as interns to develop interests of students in STEM fields
June 2022 – August 2022	Ford, Zsigmond, Workplace Learning Connection is a program to place high school students in academic labs as interns to develop interests of students in STEM fields
June 2022 - July 2022	Wu, Samantha; Samantha is a high school student (class of 2024) at Valley Christian High School in San Jose, CA participating the Summer Secondary Student Training Program (SSTP) by the University of Iowa.
June 2022 - July 2022	Yan, Chloe; Chloe is a high school student (class of 2024) at Episcopal High School in Alexandria, VA participating the Summer Secondary Student Training Program (SSTP) by the University of Iowa.
June 2019 - August 2019	Ephraim, Madeline, Workplace Learning Connection is a program to place high school students in academic labs as interns to develop interests of students in STEM fields.
June 2019 - August 2019	Holman, Spencer, Workplace Learning Connection is a program to place high school students in academic labs as interns to develop interests of students in STEM fields.
June 2019 - July 2019	Xiao, Alexander, Alexander 'Sandro' Xiao is a high school student (class of 2021) at Pleasant Valley High School in Bettendorf, IA participating the Summer Secondary Student Training Program (SSTP) by the University of Iowa.
August 2018 - November 2018	Foster, Grace; Workplace Learning Connection is a program to place high school students in academic labs as interns to develop interests of students in STEM fields.
June 2018 - August 2018	Brown, Jonathan; Workplace Learning Connection is a program to place high school students in academic labs as interns to develop interests of students in STEM fields.
June 2018 - August 2018	Sami, Sanya; Workplace Learning Connection is a program to place high school students in academic labs as interns to develop interests of students in STEM fields.
June 2017 - August 2017	Bolton, Jillian; Workplace Learning Connection is a program to place high school students in academic labs as interns to develop interests of students in STEM fields.

Professional Mentoring

Graduate Student

August - December 2023	Lucas Howser; Anthropology, University of Iowa
August - December 2022	Gurung, Binit; Anthropology, University of Iowa
January - December 2021	Msuya, Jasmin; Anthropology, University of Iowa

August - December 2018	Priola, Victoria; Anthropology, University of Iowa
August - December 2017	Klipowicz, Caleb; Anthropology, University of Iowa

SCHOLARSHIP

Publications

CLAS * System * = Senior Author, Major Contribution, ** = Secondary Contribution *** = Equal Contribution, **** = Minor Contribution

Refereed Articles

1. *Thomas, A. E., Hill, Jr., M. E., Stricker, L., Lavin, M., Givens, D., de Flamingh, A., Witt, K. E., Malhi, R. S., Kitchen, A. (*In Press*) The dogs of Tsenacomoco: Ancient DNA reveals presence of local dogs at Jamestown Colony in Early Seventeenth Century. *American Antiquity*.
2. *Ciubotariu, I. I., Wilkes, R. P., Kattoor, J. J., Christian, E. N., Carpi, G., Kitchen, A. (2024) Investigating the rise of Omicron variant through genomic surveillance of SARS-CoV-2 infections in a highly vaccinated university population. *Microbial Genomics*, *10(2)*, 001194
3. *Kim, S., Carrel, M., Kitchen, A. (2023) Spatial genetic structure of 2009 H1N1 pandemic influenza established as a result of interaction with human populations in mainland China. *PLoS ONE*, *18(5)*, e0284716.
4. *Tang, Z., Carrel, M., Koylu, C., Kitchen, A. (2023) How human ecology landscapes shape the circulation of H5N1 avian influenza: a case study in Indonesia. *One Health*, *16*, 100537.
5. *Ciubotariu, I. I., Dorman, J., Perry, N. M., Gorenstein, L., Kattoor, J. J., Fola, A. A., Zine, A., Hendrix, G. K., Wilkes, R. P., Kitchen, A., Carpi, G. (2022) Genomic surveillance of SARS-CoV-2 in a university community: insights into tracking variants, transmission, and spread of Gamm (P.1) variant. *Open Forum Infectious Diseases*, *9(7)*, ofac268.
6. ** Hippee, A. C., Beer, M. A., Bagley, R. K., Condon, M. A., Kitchen, A., Lisowski, E. A., Norrbom, A. L., Forbes, A. A. (2021). Host shifting and host sharing in a genus of specialist flies diversifying alongside their sunflower hosts. *Journal of Evolutionary Biology*, *34*(2), 364-379. Published February 2021
7. * Villanea, F. A., Kitchen, A., Kemp, B. M. (2020). Applications of Bayesian skyline plots and approximate Bayesian computation for human demography. *Human Biology*, *91*(4), 279-296.
8. * O'Neill, M. B., Shockey, A., Zarley, A., Aylward, W., Eldholm, V., Kitchen, A., Pepperell, C. S. (2019). Lineage specific histories of Mycobacterium tuberculosis dispersal in Africa and Eurasia. *Molecular Ecology*, *28*(13), 3241-3256.
9. * Cox, A., Grady, F., Velez, G., Mahajan, V. B., Ferguson, P. J., Kitchen, A., Darbro, B. W., Bassuk, A. G. (2019). In trans variant calling reveals enrichment for compound heterozygous variants in genes involved in neuronal development and growth. *Genetics Research*, *101*, e8. https://doi.org/10.1017/S0016672319000065
10. * Brynildsrud, O. B., Pepperell, C. S., Suffys, P., Grandjean, L., Monteserin, J., Debech, N., Bohlin, J., Alfsnes, K., Pettersson, J., Kirkeleite, I., Fandinho, F., da Silva, M. A., Perdigao, J., Portugal, I., Viveiros, M., Clark, T., Lopez, B., Ritacco, V., Kitchen, A., Brown, T. S., van Soolingen, D., O'Neill, M. B., Holt, K., Feil, E., Mathema, B., Balloux, F., Eldholm, V. (2018). Global expansion of Mycobacterium tuberculosis Lineage 4 shaped by colonial migration and local adaptation. *Science Advances*.
11. * Leathlobhair, M. N., Perri, A. R., Irving-Pease, E. K., Witt, K. E., Linderholm, A., Haile, J., Lebrasseur, O., Ameen, C., Blick, J., Boyko, A. R., Brace, S., Cortes, Y. N., Crockford, S. J., Devault, A., Dimopoulos, E. A., Eldridge, M., Enk, J., Gopalakrishnan, S., Gori, K., Grimes, V., Guiry, E., Hansen, A. J., Hulme-Beaman, A., Johnson, J., Kitchen, A., Kasparov, A. K., Kwon, Y.-M., Nikolskiy, P. A., Lope, C. P., Manin, A., Martin, T., Meyer, M., Myers, K. N., Omura, M., Rouillard, J.-M., Pavlova, E. Y., Sciulli, P., Sinding, M.-H. S., Strakova, A., Ivanova, V. V., Widga, C., Willerslev, E., Pitulko, V. V., Barnes, I., Gilbert, M. Thomas P., Dobney, K. M.,

Malhi, R. S., Murchison, E. P., Larson, G., Frantz, L. A. F. (2018). The Evolutionary History of Dogs in the Americas. *Science*, *361*, 81-85.

12. * Young, S. G., Kitchen, A., Kayali, G., Carrel, M. (2018). Unlocking Pandemic Potential: Prevalence and position of key substitutions in avian influenza H5N1 in Egyptian isolates. *BMC Infectious Diseases*, *18*, 314 (13 pages).
13. * Jones, C. M., Lee, Y., Kitchen, A., Collier, T., Pringle, J. C., Muleba, M., Irish, S., Stevenson, J. C., Coetzee, M., Cornel, A. J., Norris, D. E., Carpi, G. (2018). Complete Anopheles funestus mitogenomes reveal an ancient history of mitochondrial lineages and their distribution in Southern and Central Africa. *Scientific Reports*, *8*, 9054 (11 pages).
14. * Duggan, A. T., Harris, A. J., Marciniak, S., Marshall, I., Kuch, M., Kitchen, A., Renaud, G., Southon, J., Fuller, B., Young, J., Fiedel, S., Golding, G. Brian, Grimes, V., Poinar, H. (2017). Genetic discontinuity between the Maritime Archaic and Beothuk populations in Newfoundland, Canada. *Current Biology*, *27*(20), 3149-3156.
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23. * Witt, K. E., Judd, K., Kitchen, A., Grier, C., Kohler, T. A., Ortman, S. G., Kemp, B. M., Malhi, R. S. (2015). Analysis of ancient dogs of the Americas: determining possible founding haplotypes and reconstructing population histories. *Journal of Human Evolution*, *79*, 105-118.
24. * Qiu, F., Kitchen, A., Burleigh, J. G., Miyamoto, M. M. (2014). Scombroid fishes provide novel insights into the trait/rate associations of molecular evolution. *Journal of Molecular Evolution*, *78*, 338-348.
25. * Qiu, F., Kitchen, A., Beerli, P., Miyamoto, M. M. (2013). A possible explanation for the

population size discrepancy in tuna (genus Thunnus) estimated from mitochondrial DNA and microsatellite data. *Molecular Phylogenetics and Evolution*, *66*, 463-468.

26. * Pepperell, C. S., Casto, A. M., Kitchen, A., Granka, J. M., Cornejo, O. E., Holmes, E. C., Birren, B., Galagan, J., Feldman, M. W. (2013). The role of selection in shaping diversity of natural M. tuberculosis populations. *PLoS Pathogens*, *9*, e1003543.
27. ** Cook, S., Moureau, G., Kitchen, A., Gould, E. A., de Lamballerie, X., Holmes, E. C., Harbach, R. E. (2012). Molecular evolution of the insect-specific flaviviruses. *Journal of General Virology*, *93*, 223-234.
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29. * Kitchen, A., Shackelton, L. A., Holmes, E. C. (2011). Family level phylogenies reveal modes of macroevolution in RNA viruses. *Proceedings of the National Academy of Sciences of the U S A*, *108*, 238-243.
30. * Toups, M. A., Kitchen, A., Light, J. E., Reed, D. L. (2011). Origin of clothing lice indicates early clothing use by anatomically modern humans. *Molecular Biology and Evolution*, *28*, 29-32.
31. * Kitchen, A., Jones, A., Lowry, K., Aaskov, J., Holmes, E. C. (2010). Molecular evolutionary dynamics of Ross River virus and implications for vaccine efficacy. *Journal of General Virology*, *91*, 182-188.
32. * Kitchen, A., Carpi, G., Holmes, E. C. (2010). The evolutionary dynamics of Bluetongue virus. *Journal of Molecular Evolution*, *70*, 583-592.
33. * Firth, C., Kitchen, A., Shapiro, B., Suchard, M. A., Holmes, E. C., Rambaut, A. (2010). Using time-structured data to estimate evolutionary rates of double-stranded DNA viruses. *Molecular Biology and Evolution*, *27*, 2038-2051.
34. **** Sall, A. A., Ousmane, F., Mawlouth, D., Cadhla, F., Kitchen, A., Holmes, E. C. (2010). Yellow Fever Virus Exhibits Slower Evolutionary Dynamics than Dengue Virus. *Journal of Virology*, *84*, 765-772.
35. * Kitchen, A., Ehret, C., Addefa, S., Mulligan, C. J. (2009). Bayesian phylogenetic analysis of Semitic languages identifies an Early Bronze Age origin of Semitic in the Near East. *Proceedings of the Royal Society of London, Series B*, *276*, 2703-2710.
36. ** Kerr, P. J., Kitchen, A., Holmes, E. C. (2009). The origin and phylodynamics of rabbit hemorrhagic disease virus. *Journal of Virology*, *83*, 12129-12138.
37. * Kitchen, A., Miyamoto, M. M., Mulligan, C. J. (2008). A three-stage colonization model for the peopling of the Americas. *PLoS ONE*, *3*, e1596.
38. * Mulligan, C. J., Kitchen, A., Miyamoto, M. M. (2008). Updated three-stage model for the Peopling of the Americas. *PLoS ONE*, *3*, e3199.
39. * Kitchen, A., Miyamoto, M. M., Mulligan, C. J. (2008). Utility of DNA viruses for studying human host history: Case study of JC virus. *Molecular Phylogenetics and Evolution*, *46*, 673-682.
40. ** Ascunce, M. S., Kitchen, A., Schmidt, P. R., Miyamoto, M. M., Mulligan, C. J. (2007). An unusual pattern of ancient mitochondrial DNA haplogroups in northern African cattle. *Zoological Studies*, *46*, 123-125.
41. ** Non, A. L., Kitchen, A., Mulligan, C. J. (2007). Identification of the most informative regions of the mitochondrial genome for phylogenetic and coalescent analyses. *Molecular Phylogenetics and Evolution*, *44*, 1164-1171.
42. ** Mulligan, C. J., Kitchen, A., Miyamoto, M. M. (2006). Comment on "Population size does not influence mitochondrial genetic diversity in animals". *Science*, *314*, 1390.
43. **** Gray, R. R., Mulligan, C. J., Molini, B. J., Sun, E. S., Giacani, L., Godornes, C., Kitchen, A., Lukehart, S. A., Centurion-Lara, A. (2006). Molecular evolution of the tprC, D, I, K, G, and J genes in the pathogenic genus Treponema. *Molecular Biology and Evolution*, *23*, 2220-2233.

Refereed Book Chapters

1. *** Mulligan, C. J., Kitchen, A. (2013). Three stage colonization model for the peopling of the Americas. K. E. Graf, C. V. Ketron, & M. B. Waters (Eds.), *Paleoamerican Odyssey* (pp. 171-181). Center for the Study of the First Americans, College Station.

Encyclopedia Entry

1. Kitchen, A. (2018). Bottleneck. W. Trevathan (Ed.), *The International Encyclopedia of Biological Anthropology*. John Wiley and Sons, Inc..
2. Kitchen, A. (2018). Site Frequency Spectrum. W. Trevathan (Ed.), *The International Encyclopedia of Biological Anthropology*. John Wiley and Sons, Inc..

Publications In Progress

Journal Articles

2024 *Range expansion and domestication of Jerusalem artichoke during the Eastern Agricultural Complex – evidence from a specialist parasitic insect;* Hippee, A., Mueller, N., Kitchen, A., Forbes, A. [*In Prep* for *PNAS*]

2023 *Bayesian phylogenetic modeling identifies origin and dispersal of Afroasiatic languages*; Kitchen A., Vyas D., Ehret C. [*In Prep* for *Proceedings of the Royal Society B*]

Areas of Research Interest

I employ population genetic and phylogenetic techniques to molecular data, and am very interested in both the novel application of existing techniques and the development of new comparative and population genetic methods for answering exciting evolutionary questions.

Investigating prehistoric human population dynamics from both contemporary and ancient human genetic data

Revealing the evolutionary dynamics of human pathogens and parasites to provide insights into the ecological and evolutionary history of human host populations

The application of phylogenetic methods for reconstructing language prehistory and comparing genetic and linguistic population histories

Grants and Contracts

Funded

Aug 2021 - Jul 2024 *Collaborative Research: Tracking histories of North American crops using the genomes of specialist herbivorous insects #2114296*
Funded by National Science Foundation. Investigator/s Andrew Kitchen (Principal Investigator), Andrew A Forbes (Co-Principal Investigator), Natalie Mueller (Co-Principal Investigator).
Funded by National Science Foundation. Award Amount: ($220,786.00)

Jul 2019 - Jun 2022 *Anthropology STF Proposal for 2019-2020 STF Proposal #1020-01*
Funded by University of Iowa - CLAS IT Committee. Investigator/s Matthew E Hill (Collaborator), Andrew Kitchen (Collaborator).

Jul 2019 - Jun 2020 *Interdisciplinary expansion of a successful community-focused science education program Innovation in Graduate Education Challenge Grant*
Funded by University of Iowa, Graduate College. Award amount: ($119,590.00). Investigator/s Maurine Neiman (Collaborator), Andrew A Forbes (Collaborator), Andrew Kitchen (Collaborator), Heather A Saner (Collaborator), Marc Linderman (Collaborator).

Currently Under Review

Not Funded

Feb 2017 *Anthropology STF Proposal for 2017-2018 STF Proposal #1020-81*
Funded by University of Iowa - CLAS IT Committee. Investigator/s Andrew A Kitchen (Senior Personnel), Matthew E Hill (Supporting).

Nov 2016 *Collaborative Research: Agriculture in the American Southwest: Investigating the Transition to Agriculture and its Effect on Demography, Diet, and the Human Microbiome*
Funded by National Science Foundation - Biological Anthropology Program. Investigator/s Andrew A Kitchen (Co-Principal), Brian M Kemp (Co-Principal).

Dec 2012 *Collaborative Research: Agriculture in the American Southwest: Investigating the Transition to Agriculture and its Effect on Demography, Diet & the Evolution of Human Microbiomes*
Funded by National Science Foundation - Biological Anthropology Program. Investigator/s Andrew Kitchen (Co-Principal), Brian M Kemp.

Declined

2021 *Doctoral Dissertation Research: Dogs as biological markers of past human behavior: the effect of human cultural identity on indigenous and European dog populations of North America 2051452*
Funded by National Science Foundation. Investigator/s Andrew Kitchen (Principal Investigator), Ariane Thomas (Co-Principal).

2021 *A phylogenetic approach to tracking SARS-CoV-2 transmission in group facilities*
Funded by Carver Trust. Investigator/s Mary E Wilson (Co-Investigator), Andrew Kitchen (Co-Investigator).

2019 *Unearthing "lost" North American crops using signals captured in the genomes of plant-feeding insects 1945706*
Funded by National Science Foundation. Percent effort: 4. Investigator/s Andrew Kitchen (Principal Investigator), Andrew A Forbes (Co-Principal).

2019 *Love (or ecological character displacement) will tear us apart again. Do interactions with congeners strengthen reproductive isolation during host-shift speciation? 1946440*
Funded by National Science Foundation. Percent effort: 4. Investigator/s Andrew A Forbes (Principal Investigator), Andrew Kitchen (Co-Principal).

2018 *Uncovering lost histories of domesticated plants using genomes of their specialist insect herbivores 1854352*
Funded by National Science Foundation. Award amount: ($0.00). Investigator/s Andrew A Forbes (Co-Principal), Andrew Kitchen (Co-Principal).

Invited Lectures and Conference Presentations

University – Colloquium / Seminar / Invited Lectures

2023 *Phylogenetic identification of pathogen origins across time and space*, Department of Microbiology, University of Iowa; Presenter: Kitchen, Andrew

2023 *The human geography of viruses*, Department of Anthropology, University of Iowa; Presenter: Kitchen, Andrew

2022 *Tracking SARS-CoV-2 into, out of, and around the United States*, Global Health

Seminar, Carver College of Medicine, University of Iowa; Presenter: Kitchen, Andrew

2022 *From Epigenetics to Ethics: Anthropological Genetics*, Innovation, Business, and Law Center Speaker Series: The Legal and Social Implications of Genetic Technologies, College of Law, University of Iowa; Presenter: Kitchen, Andrew.

2022 *Genetic Perspectives on Modern Human Origins, Dispersals, and Behaviors*; Personal Genetics Learning Center, University of Iowa; Presenter: Kitchen, Andrew

2016 *Evolutionary Investigations into the History of Human Infections*, Genetics Cluster Initiative, Iowa Institute of Human Genetics, University of Iowa; Presenter: Kitchen, Andrew

2015 Careers in Human Genetics Day, *From robotic surgery to microbial genomics (and all points inbetween).*, Iowa Institute of Human Genetics, Iowa City, Iowa, United States Presenters/Authors: Kitchen, Andrew

2015 *Evolutionary genetics reveal the shared history of humans and their pathogens*, Department of Microbiology, University of Iowa; Presenter: Kitchen, Andrew

2014 Explorer Series, Museum of Natural History, *Linking pathogen evolution with human history*, University of Iowa, Iowa City, Iowa, United States Presenters/Authors: Kitchen, Andrew

2014 Mini Medical School Series, *Genetics provide insights into the history of human infectious disease*, University of Iowa, Iowa City, Iowa, United States

2014 Iowa Global Health Conference, *Third army of war: Infectious disease*, University of Iowa, Iowa City, Iowa, United States

State – Colloquium / Seminar / Invited Lectures

2018 *Searching for Native American Dogs*, Archaeological Institute of America, Iowa City, Iowa, United States Presenters/Authors: Kitchen, Andrew

2017 *Archaic Ancestry*, DNA Interest Group - Iowa City, Iowa City, Iowa, United States Presenters/Authors: Kitchen, Andrew

2014 Connections Speaker Series, *Natural history of human infectious disease*, Kirkwood Community College, Cedar Rapids, Iowa, United States

2014 Annual Meeting of the Iowa Academy of Sciences, *Understanding the peopling of the Americas: a discourse between an archaeologist and a geneticist*, Fort Dodge, Iowa, United States Presenters/Authors: Kitchen, Andrew, Hill, Matt

2014 Iowa City Foreign Relations Council, *The co-evolution of humans and pathogens*, Iowa City, Iowa, United States

2015 Oaknoll Retirement Community, *The origin and natural history of human infectious disease*, Iowa City, Iowa, United States Presenters/Authors: Kitchen, Andrew

2013 University of Iowa's International Archaeology Day Program, *Understanding the peopling of the Americas: a discourse between an archaeologist and geneticists*, Archaeological Institute of America, Iowa City, Iowa, United States Presenters/Authors: Kitchen, Andrew, Hill, Matt

National – Colloquium / Seminar / Invited Lectures

2020 *Phylodnymacs*, University of Wisconson-Madison MSTP Program, Madison, Wisconsin, United States Presenters/Authors: Kitchen, Andrew

2016 *Evolutionary Investigations into the History of Human Infections*, University of Oklahoma – Anthropology; Norman, Oklahoma, United States; Presenter: Kitchen, Andrew

2013 Molecular Archaeology Group, *On correlating the tempo of pathogen and human evolutionary dynamics*, University of Wisconsin, Madison, Wisconsin, United States

2013 University of Florida Genetics Institute Seminar Series, *Attempting to unite the timescale of human and pathogen evolution*, Genetics Institute, University of Florida,

Gainesville, Florida, United States

2013 Program in Ecology, Evolution, and Conservation, *Parasite and Pathogen Perspectives of Human Evolution*, School of Integrative Biology, University of Illinois, Urbana, Illinois, United States

2010 Department of Anthropology, *Inferring ancient events in human population history from pathogen genetic diversity*, Washington State University, Pullman, Washington, United States

International – Colloquium / Seminar / Invited Lecture

2016 *Modeling and genetic inference and the Beringian standstill hypothesis*, Beringian Standstill Workshop, National Science Foundation; University of Colorado, Boulder, Colorado, United States; Presenter: Kitchen, Andrew

2014 American Colonization Workshop, *Genetic methods for understanding human population history*, University of Missouri, Columbia, Missouri, United States

2012 *Molecular Perspectives on Human Evolution and the Evolution of Human Infectious Disease*, Department of Anthropology, Durham University, Durham, United Kingdom; Presenter: Kitchen, Andrew

2011 *The emergence and evolutionary dynamics of human pathogens*, School of Biological Sciences, University of Queensland, Brisbane, Australia; Presenter: Kitchen, Andrew

2011 *The emergence and evolutionary dynamics of human pathogens*, Tempo and Mode Seminar, Australian National University, Canberra, Australia; Presenter: Kitchen, Andrew

International – Paper (Peer Reviewed)

2014 83rd Annual Meeting of the American Association of Physical Anthropology, *Bayesian analyses of >100 Yemeni mitochondrial genomes and implications for dispersals out of Africa*, Calgary, Canada Peer-Reviewed/Refereed Presenters/Authors: Vyas, Deven N, Kitchen, Andrew, Al-Meeri, Ali, Mulligan, Connie J

2014 14th Congress of the Pan African Archaeological Association for Prehistory and Related Studies, *Dating the pre-history of the Afroasiatic language family*, University of Witwatersrand, Johannesburg, South Africa Peer-Reviewed/Refereed Presenters/Authors: Kitchen, Andrew, Ehret, Christopher

2013 Paleoamerican Odyssey Conference, *Three stage colonization model for the peopling of the Americas*, Santa Fe, New Mexico, United States Peer-Reviewed/Refereed Presenters/Authors: Mulligan, Connie J, Kitchen, Andrew

2013 82nd Annual Meeting of the American Association of Physical Anthropologists, *Infectious disease in humans and other primates: origins, dynamics, and evolution*, Knoxville, Tennessee, United States Peer-Reviewed/Refereed Presenters/Authors: Kitchen, Andrew, Stone, Anne

2013 82nd Annual Meeting of the American Association of Physical Anthropology, *Revealing the evolutionary dynamics of pathogens in primate populations*, Knoxville, Tennessee, United States Peer-Reviewed/Refereed Presenters/Authors: Kitchen, Andrew

2012 81st Annual Meeting of the American Association of Physical Anthropology, *The timescale and evolutionary dynamics of Mycobacterium tuberculosis infection in humans*, Portland, Oregon, United States Peer-Reviewed/Refereed Presenters/Authors: Kitchen, Andrew, Pepperell, Caitlin S

International - Workshop

2016 Bertinoro Computational Biology 2016 - Bacterial Genome Evolution, *Attempting to Reveal Interaction of Vector Microbiome on Competency*, Bertinoro International Center for Informatics, Bertinoro, Italy Presenters/Authors: Kitchen, Andrew

International – Poster (Peer Reviewed)

2022 87th Annual Meeting of the Society of American Archaeologists, *Ancient DNA evidence suggests dogs as commodities of exchange at Jamestown Colony*, Chicago, Illinois, United States. Peer-Reviewed/Refereed. Presenters/Authors: Thomas A.E., de Flamingh A., Witt K.E., Hill M.E., Malhi R.S., Kitchen A.

2022 91st Annual Meeting of the American Association of Biological Anthropology, *Ancient dog mitochondrial lineages indigenous to North America recovered from Jamestown Colony*, Denver, Colorado, United States. Peer-Reviewed/Refereed. Presenters/Authors: Thomas A.E., de Flamingh A., Witt K.E., Hill M.E., Malhi R.S., Kitchen A.

2014 83rd Annual Meeting of the American Association of Physical Anthropology, *Inferring post-Peopling Amerindian population history from published and synthetic data*, Calgary, Canada Peer-Reviewed/Refereed Presenters/Authors: Antrim, Amelia, Jasper, Elizabeth, Kitchen, Andrew

2014 83rd Annual Meeting of the American Association of Physical Anthropology, *Testing the limitations of ancient DNA sampling in Bayesian coalescent analysis*, Calgary, Canada Peer-Reviewed/Refereed Presenters/Authors: Villanea, Fernando, Kemp, Brian M, Kitchen, Andrew

SERVICE

Profession

2023 NSF-Biological Anthropology, Senior Award Grant Panel, Reviewer, Grant Proposals

2012 - 2021 American Association of Anthropological Genetics, Election Committee, Chair

2021 Genome Biology and Evolution, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2021

2021 NSF-Archaeology, 1 proposal, Reviewer, Grant Proposals, I reviewed 1 Senior Award proposal in 2021

2020 Acta Tropica, 1 manuscript, Reviewer, Publications

2020 NSF-Biological Anthropology, 1 proposal, Reviewer, Grant Proposals

2020 Philosophical Transactions of the Royal Society - Series B, 2 manuscripts, Reviewer, Publications

2020 Proceedings of the National Academy of Science, 1 manuscript, Reviewer, Publications

2020 Viruses, 1 manuscript, Reviewer, Publications

2019 NSF-Biological Anthropology, Doctoral Dissertation Research Improvement Grant Panel, Reviewer, Grant Proposals

2018 NSF-Biological Anthropology, Doctoral Dissertation Research Improvement Grant Panel, Reviewer, Grant Proposals

2018 NSF-Biological Anthropology, Doctoral Dissertation Research Improvement Grant Panel, Reviewer, Grant Proposals

2017 American Journal of Physical Anthropology, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2017

2017 The Leakey Foundation, 1 grant proposal, Reviewer, Grant Proposals

2017 NSF-Biological Anthropology, Doctoral Dissertation Research Improvement Grant Panel, Reviewer, Grant Proposals

2017 NSF-Biological Anthropology, Doctoral Dissertation Research Improvement Grant Panel, Reviewer, Grant Proposals

2016 American Journal of Physical Anthropology, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2016

2016 Evolutionary Medicine and Public Health, 1 manuscript, Reviewer, Publications, I

reviewed 1 manuscript in 2016

2016 Molecular Biology and Evolution, 2 manuscripts, Reviewer, Publications, I reviewed 2 manuscripts in 2016

2016 Science Advances, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2016

2016 Viruses, 2 manuscripts, Reviewer, Publications, I reviewed 2 manuscripts in 2016

2016 NSF-Biological Anthropology, Doctoral Dissertation Research Improvement Grant Panel, Reviewer, Grant Proposals

2015 Ecological Anthropology, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2015

2015 NSF-Biological Anthropology, 1 proposal, Reviewer, Grant Proposals, I reviewed 1 Senior Award proposal in 2015

2015 NSF-Dimensions of Biodiversity, 1 proposal, Reviewer, Grant Proposals, I reviewed 1 grant proposal in 2015

2015 Phylogenetics and Evolutionary Biology, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2015

2015 Science Advances, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2015

2015 Scientific Reports, 2 manuscripts, Reviewer, Publications, I reviewed 2 manuscripts in 2015

2015 Viruses, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2015

2014 ICRU Undergraduate Research Internship, Faculty Mentor

2014 American Journal of Physical Anthropology, 3 manuscripts, Reviewer, Publications, I reviewed 3 manuscripts in 2014

2014 Human Biology, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2014

2014 John F. Templeton Foundation, 1 proposal, Reviewer, Grant Proposals, I reviewed 1 Major Award proposal in 2014

2014 Journal of Virology, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2014

2014 Molecular Biology and Evolution, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2014

2014 NSF-Biological Anthropology, 1 proposal, Reviewer, Grant Proposals, I reviewed 1 Senior Award proposal in 2014

2014 Proceedings of the National Academy of Sciences USA, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2014

2014 Viruses, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2014

2014 ICRU Undergraduate Research Internship, Faculty Mentor

2014 SROP Undergraduate Research Internship, Faculty Mentor

2013 American Anthropologist, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2013

2013 American Journal of Physical Anthropology, 4 manuscripts, Reviewer, Publications, I reviewed 4 manuscript ins 2014;

2013 Evolutionary Ecology, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2013

2013 Genome Biology and Evolution, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2013

2013 Molecular Biology and Evolution, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2013

2013 National Geographic Society, 1 proposal, Reviewer, Grant Proposals, I reviewed 1 Explorer Grant proposal in 2013

2013 NSF-Biological Anthropology, 1 proposal, Reviewer, Grant Proposals, I reviewed 1

	Senior Award proposal in 2013
2013	Royal Society of New Zealand, 1 proposal, Reviewer, Grant Proposals, I reviewed 1 Marsden Fund Award proposal in 2013
2013	Wiley-Blackwell, 1 proposal, Reviewer, Publications, I reviewed 1 book proposal in 2013
2013	Iowa Institute of Human Genetics Undergraduate Summer Interns, Faculty Mentor, in bioformatics and computational biology
2012	American Anthropologist, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2012
2012	American Journal of Physical Anthropology, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2012
2012	Molecular Biology and Evolution, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2012
2012	PLoS Genetics, 2 manuscripts, Reviewer, Publications, I reviewed 2 manuscripts in 2012
2011 - 2012	American Association of Anthropological Genetics, Education Committee, Member
2012	American Association of Anthropological Genetics, 81st Annual Meeting of the American Association of Physical Anthropologists, Student Awards Committee, Member
2011	Archives of Virology, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2011
2011	BMC Evolutionary Biology, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2011
2011	Molecular Biology and Evolution, 3 manuscripts, Reviewer, Publications, I reviewed 3 manuscripts in 2011
2010	American Journal of Physical Anthropology, 2 manuscripts, Reviewer, Publications, I reviewed 2 manuscripts in 2010
2010	Archives of Virology, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2010
2010	BMC Evolutionary Biology, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2010
2010	Evolutionary Ecology, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2010
2010	Molecular Biology and Evolution, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2010
2010	PLoS ONE, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2010
2009	Archives of Virology, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2009
2009	Current Anthropology, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2009
2009	Genetica, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2009
2009	Molecular Biology and Evolution, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2009
2009	Molecular Phylogenetics and Evolution, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2009
2008	Infection, Genetics and Evolution, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2008
2008	Molecular Biology and Evolution, 1 manuscript, Reviewer, Publications, I reviewed 1 manuscript in 2008

Department

2023 – Present	Curriculum Coordinator
2023 – Present	Director of Undergraduate Studies
2022 – Present	Website Coordinator
2022 – 2023	Curriculum Review Committee, Member
2021 – Present	Graduate Admissions Committee, Member
2022	Lara Noldner Promotion Review Committee, Chair
2021 – 2022	Graduate Program Assessment Committee, Member
2019 – 2020	Fiftieth Anniversary and Colloquium Committee, Member
2014 – 2019	Colloquium Committee, Member
2019	Diversity Committee, Member
2018 - 2019	Colloquium Committee, Chair
2014 - 2019	Admissions Committee, Member
2014 - 2019	Website Committee, Chair
2013 - 2019	Space Committee, Member
2012 - 2013	Colloquium Committee, Member

College

2024	CLAS – Department of Biology Review Committee
2023	CLAS – College IT Director Search Committee, Member
2022 – 2023	CLAS – Ad Hoc Taskforce Committee, Member
2019 – 2022	CLAS – Information Technologies Committee, Member
2019 – 2022	CLAS – Undergraduate Educational Policy and Curriculum Committee, Member
2017 – 2020	CLAS – Scholarship Committee, Member
2019	CLAS – Interdisciplinary Programs Review Committee, Member
2018 - 2019	CLAS – Faculty Assembly, Attendee
2017	CLAS – Faculty Assembly, Attendee

University

2020 – 2023	Faculty Senate, Member
2018	Nathan Holton Tenure Committee, Member (University of Iowa, College of Dentistry)
2012 – Present	Genetics Cluster, Member
2012 – Present	Interdisciplinary Graduate Program in Informatics, Member
2013 – 2015	International Programs, Faculty Fellow
2013	Faculty Engagement Corps, Member

Community

2017 - Present	Iowa City Darwin Day, Planning Committee, Co-Chair
2014 - 2017	Iowa City Darwin Day, Planning Committee, Member
2017	DNA Interest Group, Guest Speaker, I gave a talk on 'Archaic Admixture' at the monthly meeting of the Iowa City DNA Interest Group, founded and chaired by Bryant McAllister in the Department of Biology.
2017	National History Day, Reviewer, Ad-hoc

Media Contributions

2023	*The Daily Iowan*, UI researchers find Indigenous dog lineages at Jamestown. 2023 January 25. This article reviewed research performed with Ariane Thomas and Matt Hill into the ancient DNA of dog remains from the 17th century English colony of Jamestown.
2023	*USA Today*, Remains of ancient, Indigenous dogs found at Jamestown, as well as proof

people at them. 2023 January 4. This article reviewed research performed with Ariane Thomas and Matt Hill into the ancient DNA of dog remains from the 17th century English colony of Jamestown.

2022 *Washington Post*, Bones of ancient native dogs found at Jamestown. 2022 December 29. This article reviewed research performed with Ariane Thomas and Matt Hill into the ancient DNA of dog remains from the 17th century English colony of Jamestown.

2022 *Science*, Jamestown colonists may have kept, eaten indigenous American dogs. 2022 March 31. This article reviewed research performed with Ariane Thomas and Matt Hill into the ancient DNA of dog remains from the 17th century English colony of Jamestown.

2017 Magazine, Proceedings of the National Academy of Science of the U S A, International
I commented for a review of the model for the peopling of the Americas ten years after the publication of key articles (including two of mine) suggesting people stopped in Beringia before entering North America.

2017 Internet, ABC News, International
Ancient Bacteria Yield Clues for Woman's Dramatic Cause of Death 800 Years Ago; review of 2017 eLife article

2017 Internet, Canadian Broadcasting Corporation (CBC) News, International
How pregnant woman, unborn son died in ancient city of Troy: McMaster scientists; review of 2017 eLife paper

2017 Internet, FOX News, International
Bones unearthed near ancient city of Troy yield clues of deadly infection; review of 2017 eLife paper

2017 Internet, IFL Science!, International
Byzantine Skeleton Contains 800-Year-Old DNA From The Infection That Killed Her; review of 2017 eLife paper

2017 Internet, International Business Times, International
Mysterious nodules on 800-year-old skeleton from Troy contain intact DNA of deadly bacteria; review of 2017 eLife paper

2017 Newspaper, The Daily Mirror, International
Killer 'ghost cells' of Ancient Troy revealed as archeologists discover nodules on 800-year-old skeleton containing fossilised deadly bacteria; review of 2017 eLife paper

2017 Newspaper, The Globe and Mail, International
McMaster scientists unearth infection evidence in 13th-century Troy bones; review of 2017 eLife paper

2017 Newspaper, The Daily Mail, International
The 'ghost cells' of Troy: 800 year old skeleton with mysterious nodules allowed researchers to reconstruct ancient bacteria; review of 2017 eLife paper

2017 Newspaper, Milwaukee-Wisconsin Journal Sentinel, National
UW researcher unlocks story of 800-year-old skeleton; review of 2017 eLife paper

2015 Newspaper, ScienceDaily
Study of ancient dogs in Americas yields insights into human, dog, migration; work referenced and named

2014 Radio, River to River on Iowa Public Radio
Guest concerning 45,000-year-old human genome

2013 Newspaper, ScienceNews
Quoted

2013 Radio, University of Iowa WorldCanvass program
Understanding the World through Genetics and New Technologies, Guest

2012 Radio, Friday Science Hour
KRUI (89.7 FM), Guest

2012	Magazine, Nature Genetics Editorial Genomes against parasites, work referenced
2012	Magazine, Nature Genetics News and View The emergence and spread of dysentery, work reference
2012	Newspaper, Washington Post Quoted

Professional Development Activities

2019	Training/Development Program, "Entering Mentoring" mentoring training seminar, Iowa Mentoring Academy & Iowa Biosciences Academy