

AINASH CHILDEBAYEVA

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EDUCATION

Sep. 2014 - May 2019
(expected) PhD in Anthropology and Toxicology,
University of Michigan, Ann Arbor, MI
Sept. 2014 - Jan. 2017 MA in Anthropology, University of Michigan, Ann Arbor
August 2010 - Dec. 2013 BA in Anthropology, and Molecular and Cellular Biology,
Vanderbilt University, Nashville, TN

RESEARCH AND FIELDWORK EXPERIENCE

July 2017 Field work: Cerro de Pasco, Peru
July 2016 - August 2016 Fieldwork: Lima and Cerro de Pasco, Peru
July 4-8, 2016 Complex Trait Analysis of Next Generation Sequence Data,
Instructors: Dr. Suzanne Leal and Dr. Michael Nothnagel,
Max Delbruck Center (Berlin, Germany)
May 2016 - June 2016 Research Assistant, Bigham Laboratory of Anthropological
Genomics
August 2015 Pilot study with UM REFRESCH on water quality
perception in Astana, Kazakhstan
July 2015 - August 2015 Research Assistant, Ayacucho Bioarchaeological Project, PI:
Dr. Tiffany Tung, Ayacucho, Peru
May 2015 - June 2015 Preliminary research. Effects of hypoxia and lead exposure
on LINE-1 DNA methylation, Laboratory of Environmental
Epigenomics, PI: Dr. Dana Dolinoy, University of Michigan,
Ann Arbor, MI
January 2014 - June 2014 Research Assistant/Laboratory Technician, Laboratory of
Molecular Anthropology, PI: Dr. Amy Non, Vanderbilt
University, Nashville, TN
June 2013 - Dec. 2013 Honors Thesis Research "Analysis of DNA methylation at
stress-related genes across tissue and in relation to early life
institutionalization in Bucharest, Romania", Laboratory of
Molecular Anthropology, Adviser: Dr. Amy Non,
Vanderbilt University, Nashville, TN
October 2012 - Dec. 2013 Undergraduate Research Assistant, Laboratory of
Molecular Anthropology, PI: Dr. Amy Non, Vanderbilt
University, Nashville, TN

May 2012 - July 2012	Intern, Forensic Archaeology Foundation (FAFG) of Guatemala, Guatemala city, Guatemala
October 2011 - May 2012	Research Assistant/Laboratory Technician, Cancer Drug Discovery lab, PI: Dr. Stephen Fesik, Vanderbilt University School of Medicine, Nashville, TN

TEACHING EXPERIENCE

Fall 2015	Introduction to Biological Anthropology. Graduate Student Instructor
Winter 2016	Nature/Culture Now! Graduate Student Instructor
Fall 2016	Primate Social Behavior. Graduate Student Instructor
Fall 2017	Evolution, Environment, and Global Health. Graduate Student Instructor

RESEARCH INTERESTS

Epigenetics, adaptation to high-altitude hypoxia, lead exposure, ancient DNA, human population genetics, genome-epigenome interactions

HONORS and AWARDS

October 2017	Wenner-Gren Dissertation Fieldwork Grant
April 2017	Rackham Summer Award, University of Michigan
July 2016	NSF Doctoral Dissertation Research Improvement Grant
September 2015 - May 2019	Graduate Student Instructor/Research Assistant appointment, Department of Anthropology, University of Michigan, Ann Arbor, MI
May 2016	Franklin Mosher Baldwin Memorial Fellowship, Second-year renewal (Leakey Foundation)
May 2016	Global Public Health Pre-dissertation Research Grant, Office of Global Public Health, University of Michigan
April 2016	Latin American and Caribbean Studies Field Grant, University of Michigan
April 2016	University of Michigan International Institute Individual Fellowship
March 2016	Rackham Graduate Student Research Grant, University of Michigan
May 2015	Franklin Mosher Baldwin Memorial Fellowship (Leakey Foundation)
April 2015	University of Michigan Department of Anthropology Pre-Candidate Fellowship
March 2015	University of Michigan International Institute Individual Fellowship

Sept. 2014 - Sep. 2015	Fellowship from the Department of Anthropology (full tuition and stipend), University of Michigan, Ann Arbor, MI
December 2013	Highest Honors in Anthropology. Award for outstanding research and writing by an undergraduate. Department of Anthropology. Vanderbilt University
August 2009 - Dec. 2013	Bolashak Scholarship from the Government of Kazakhstan (full funding for undergraduate degree at Vanderbilt University)

PUBLICATIONS and PRESENTATIONS

September 2017	Ainash Childebayeva , Tamara R. Jones, Jackie M. Goodrich, Fabiola Leon-Valerde, Maria Rivera-Chira, Melisa Kiyamu, Tom D. Brutsaert, and Dana C. Dolinoy, Abigail W. Bigham (2017). <i>Global DNA Methylation Signatures Of High-Altitude Adaptation In The Andes</i> . (in progress)
April 2017	Ainash Childebayeva , Dana C. Dolinoy, Jaclyn M. Goodrich, Maria Rivera-Chira, Fabiola Leon Valerde, Melisa Kiyamu, Tom Brutsaert and Abigail W. Bigham. <i>Genome-wide epigenetic signatures of high-altitude adaptation in Peru</i> . The 86th Annual Meeting of the American Association of Physical Anthropologists (New Orleans, LA). Podium talk.
May 2016	Non, A., Hollister, B., Humphreys, K., Childebayeva, A. , Esteves, K., Zeanah, C., Fox, N., Nelson, C., Drury, S. (2016). DNA methylation at stress-related genes is associated with exposure to early life institutionalization. <i>American Journal of Physical Anthropology</i> , 161(1), 84–93.
October 2016	Ainash Childebayeva , Dana C. Dolinoy, Jaclyn M. Goodrich, Abigail W. Bigham. <i>Epigenomic signatures of high-altitude adaptation in the Andes</i> . American Society of Human Genetics 2016 meeting (Vancouver, Canada). Poster.
April 2016	Ainash Childebayeva , Dana C. Dolinoy, Tamara R. Jones, Fabiola Leon-Valerde, Maria Rivera-Ch, Melisa Kiyamu, Tom D. Brutsaert, Abigail W. Bigham. <i>Epigenetic signatures of high-altitude adaptation in the Andes</i> . The 85rd Annual Meeting of the American Association of Physical Anthropologists (Atlanta, GA). Podium talk.
January 2016	Ainash Childebayeva , Dana C. Dolinoy, Tamara R. Jones, Fabiola Leon-Valerde, Maria Rivera-Ch, Melisa Kiyamu, Tom D. Brutsaert, Abigail W. Bigham. <i>Epigenetic signatures of hypoxia and lead exposure in the Peruvian Andes</i> . 21st Annual Environmental Health Sciences Research

- April 2014 Symposium, Environmental Health Sciences, University of Michigan (Ann Arbor, MI). Poster presentation.
Non, A. L., Hollister, B. M., **Childebayeva, A.**, Ismaily, S., Zeanah, C., Fox, N., & Drury, S. S. *Promise, challenges, and considerations of epigenetic analyses of early life adversity: A case study of institutionalized Romanian children*. The 83rd Annual Meeting of the American Association of Physical Anthropologists (Calgary, Canada). Podium talk.
- April 2014 Brittany Hollister, **Ainash Childebayeva**, Sanober Ismaily, Charles Zeanah, Nathan Fox, Charles Nelson, Stacy Drury, Amy Non. *Epigenetic Consequences of Extreme Social Deprivation in Romanian Children*. The 83rd Annual Meeting of the American Association of Physical Anthropologists (Calgary, Canada). Poster presentation.
- October 2012 **Ainash Childebayeva**. *Acinetobacter marinus*. In *Encyclopedia of Life*. Cambridge, MA: Encyclopedia of Life Learning + Education Group.

OUTREACH and MENTORSHIP

- Sept 2016 to present Mentor for an Undergraduate Research Opportunity Program (UROP) students
- February 2016 Volunteered with the University of Michigan Museum of Natural History to teach local middle schoolers and high schoolers methods in Biological Anthropology
- Jan 2015 to Dec 2016 Trained an undergraduate student in computational methods in evolutionary genetics

PROFESSIONAL MEMBERSHIPS

- June 2016 to present American Society of Human Genetics
- March 2016 to present Paleopathology Association
- March 2015 to present American Association of Physical Anthropologists
- January 2015 to present Epigenetics Society

COMPUTER/SOFTWARE KNOWLEDGE

R, SPSS, CodonCode, Perl, MEGA, ClustalW, Structure

LANGUAGES

I am able to read, speak, and write English, Russian, and Kazakh fluently. I am able to speak Spanish at an intermediate level