

Nicole M. Burt

Curator and Head Human Health and Evolutionary Medicine

Fall 2016 – present

Cleveland Museum of Natural History

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ADDITIONAL APPOINTMENTS

Adjunct Assistant Professor of Anthropology, Case Western Reserve University, Cleveland, 2016 –

Adjunct Assistant Professor of Bioethics, Case Western Reserve University, Cleveland, 2016 –

Graduate Faculty, Cleveland State University, Cleveland, Fall 2018 –

EDUCATION

Ph.D. Anthropology 2012, University of Alberta, Edmonton AB

- Dissertation: RECONSTRUCTING EARLY CHILDHOOD DIETS FROM MEDIEVAL FISHERGATE HOUSE USING DENTINE MICROSAMPLING OF DECIDUOUS TEETH FOR STABLE ISOTOPE ANALYSIS

M.S. Forensic Science 2007, Michigan State University, East Lansing MI

- Thesis: TESTING THE DEMIRJIAN METHOD AND THE INTERNATIONAL DEMIRJIAN METHOD ON AN URBAN AMERICAN SAMPLE

B.A. Anthropology 2004, Beloit College, Beloit WI

- Minors Museum Studies and European Studies, graduated with Honors
- Thesis: WORKING FOR THE DEAD, CARING FOR THE LIVING: MY TIME AT THE ROCK COUNTY CORONER'S OFFICE

CURRENT RESEARCH PROJECTS

- Pilot Diet and Stress in Cleveland: A novel approach to the obesity epidemic (Active)
- Pilot Redefining Food Deserts”: Activity Space, Food Access, and Diet (Active)
- Teaching Collaboration with Cleveland VA (Active)
- Dietary Transition in Vanuatu South Pacific: Early Childhood Diet (Active)
- Citizen Science: Diet in Cleveland (In preparation)

PUBLICATIONS

Articles

- 2017 Laura Clements, Megan McNamara, **Nicole M Burt**, Mamta K Singh. Starting with Lucy: Focusing on human similarities rather than differences to address health care disparities. *Academic Medicine* 92(9): 1259-1263.

- 2016 Linda Reynard, **Nicole M Burt**, Hannah Koon, Noreen Tuross. Limits and possibilities in the geolocation of humans using multiple isotope ratios (H, O, N, C) of hair from east coast cities of the USA. *Isotopes in Environmental and Health Studies* 52(4-5): 498-512.
- 2015 **Nicole Burt**. Individual Dietary Patterns During Childhood: An Archaeological Application of a Stable Isotope Microsampling Method for Tooth Dentin. *Journal of Archaeological Science* 53, 277–290.
- 2014 **Nicole M Burt** and Maryam Amin. A Mini Me? Exploring Early Childhood Diet with Stable Isotope Ratio Analysis Using Primary Teeth Dentin. *Archives of Oral Biology* 59, 1226 - 32.
- 2013 **Nicole M Burt**. Stable Isotope Ratio Analysis of Breastfeeding and Weaning Practices of Children From Medieval Fishergate House York, UK. *American Journal of Physical Anthropology*, 152, 407-416.
- 2013 **Nicole M Burt** and Sandra Garvie-Lok. A New Method of Dentine Micro sampling of Deciduous Teeth for Stable Isotope Ratio Analysis. *Journal of Archaeological Science*, 40, 3854-3864.
- 2011 **Nicole M Burt**, Norman Sauer, Todd Fenton. Testing the Demirjian and the International Demirjian Dental Aging Methods on a Mixed Ancestry Urban American Subadult Sample from Detroit, MI, *Journal of Forensic Science* 56, 1296-1301.

Books and Other Scholarly Works

- 2016 Mindy Pitre and **Nicole M Burt** (writers), Holly Hunold (illustrator). *Origins: An Evolutionary Journey*. (Educational game), WW Norton Publishers.
- 2013 **Nicole M Burt**, Dyan Semple, Kathryn Waterhouse, Nancy C Lovell. *Identification and Interpretation of Joint Disease in Paleopathology and Forensic Anthropology*. Springfield IL: CC Thomas Publisher.

Patens/Trademarks

- Pitre, M., **Burt, Nicole M.**, and Hunold, Holly J. U.S. Trademark Application No. 87/014,311. Mark: ORIGINS AN EVOLUTIONARY JOURNEY. Filed April 26, 2016.
- Pitre, M., **Burt, Nicole M.**, and Hunold, Holly J. U.S. Trademark Application No. 87/014,325. Mark: Head Logo. Filed April 26, 2016.

FELLOWSHIPS and GRANTS

Research

- 2017 **Franklin Research Grant from American Philosophical Society** Project title “Stable isotope Analysis Vanuatu Health Transitions Project”
- 2017 **Natural Hazards Center Research Grant** Ambae post volcano evacuation work. PI Kelsey Dancause

- 2011 **Wenner-Gren Foundation Dissertation Fieldwork Grant** Project title “Reconstructing Juveniles Diet In Medieval York Using a New Method of Dentine Stable Isotope Analysis”
- 2011 **Schallek Award The Medieval Society and Richard III Society**, American Branch Dissertation Research grant, Project title “Reconstructing Juveniles Diet In Medieval York Using a New Method of Dentine Stable Isotope Analysis”
- 2006 **Research Enhancement Award Recipient Awarded** from MSU for MS research

Fellowships

- 2013 **IC Postdoctoral Research Fellowship** Funding for postdoctoral work at Harvard University. Project title “A Novel Approach to Measuring Oxygen Isotopes in the Amino Acids in Hair” (2013)
- 2008 - 2012 **Chia PhD Scholarship Recipient Awarded** by University of Alberta. Cost Ph.D.
- 2000 - 2004 **Eaton Scholarship Recipient Awarded** by Beloit College, 4 years 3/4 funding
- 2000 - 2004 **Beloit Scholarship Recipient Awarded** by Beloit College, \$5,000 per year for 4 years

Travel

- 2014 **Smead Foundation Travel Grant** \$400 to attend the AAA conference in DC
- 2012 **Graduate Student Association Travel Award** \$500 to attend AAPA conference in Portland
- 2012 **Faculty of Arts Travel Award** \$250 awarded by the University of Alberta for attendance of the American Association of Physical Anthropology Meetings in Portland
- 2011 **Pollitzer Travel Award** \$500 awarded by the American Association Physical Anthropology to attend meeting (Minneapolis)
- 2011 **Graduate Student Association Travel Award** \$200 to attend CAPA conference in Montreal
- 2011 **Departmental Graduate Student Travel Award** Awarded by the University of Alberta, \$300 for attendance of the American Association of Physical Anthropology Meetings in Minneapolis
- 2009 **Professional Development and Travel Grant** \$800 awarded by the Graduate Student Association at University of Alberta
- 2009 **Departmental Graduate Student Travel Award** \$1000 awarded by the Department of Anthropology for travel to Greece

AWARDS and HONORS

- 2016 **Early Career Mentoring Opportunity Award**, Awarded by American Association of Physical Anthropologists. Opportunity to shadow the organization's President
- 2016 **Scholarship in Teaching Award**, Awarded CWRU School of Medicine. For excellence in teaching
- 2003 **William Simpson Godfrey Award** for Academic Excellence Beloit College

PAST POSITIONS

Research and Teaching

- Aug 2014 – June 2016, **Postdoctoral Fellow, Human Health and Evolutionary Medicine**, Cleveland Museum of Natural History, Cleveland OH
- Aug 2013 – Aug 2014, **Harvard University Postdoctoral Fellow**, Dept. of Human Evolutionary Biology, Harvard University, Cambridge MA
PI: *Noreen Tuross*
- Jan 2012 – May 2012, **Research Assistant CASCA Conference**. Department of Anthropology, University of Alberta, Edmonton AB
- Sept 2008 – Dec 2011, **Teaching Assistant Human Osteology**, Department of Anthropology, University of Alberta, Edmonton AB
- May 2011 – June 2011, **Instructor Intro Biological Anthropology**, Department of Anthropology, University of Alberta, Edmonton AB
- Jan 2011 – April 2011, **Teaching Assistant Intro Biological Anthropology**, Department of Anthropology, University of Alberta, Edmonton AB
- Sept 2007 – June 2008, **Faculty Instructor Medical Gross Anatomy & Undergraduate Anatomy**, Department of Radiology Division of Radiology and College Human Medicine, Michigan State University, East Lansing, MI
- Aug 2005 – Aug 2007, **Supplemental Instruction Leader Medical Gross Anatomy**, College of Human Medicine, Michigan State University, East Lansing MI
- Aug 2005 – Aug 2007, **Laboratory Teaching Assistant Level II (LTAII) Medical Gross Anatomy**, Division of Anatomy, Department of Radiology, Michigan State University, East Lansing MI
- Aug 2004- June 2005, **Forensic Anthropology Laboratory Assistant**, Forensic Anthropology Laboratory, Michigan State University, East Lansing MI
- Aug 2003 – Jan 2004, **Evolution Teaching Assistant**, Department of Biology, Beloit College, Beloit WI

Other Experiences

July 2011-Aug 2011 **Volunteer Field Bioarchaeologist**, University of Alberta -
Hokkaido University Joint Project, Rebun Island, Japan

July 2009 – Aug 2009 **Assistant Biological Anthropologist**, Helike, Greece

May 2004 – June 2004 **Museum Collections Intern**, Wisconsin Maritime
Museum, Manitowoc WI

Aug 2003 – Jan 2004 **Coroner's Intern**, Rock County Coroner's Office, Janesville WI

Aug 2003 – May 2004 **Collection Manager's Assistant** Wright Museum of Art,
Beloit College, Beloit WI

June 2003 – July 2003 **Archaeology Field School**, University of Wisconsin-
Marinette, Marinette WI

May 2002 – Aug 2002 **Collections Intern**, Neville Public Museum, Green Bay WI

RESEARCH PRESENTATIONS and PUBLISHED ABSTRACTS

“Sex-based disparities in physical activity in urban-dwelling African Americans: Results from a pilot study.” M Gomez, TA Wilson, R Steinmuller, S Paskert, E Zaccardelli, N Burt, KM Olszowy. Human Biology Association march **2019**

“Factors associated with perceived stress in African Americans from Cleveland: Results from a pilot study.” R Steinmuller, M Gomez, TA Wilson, S Paskert, E Zaccardelli, N Burt, KM Olszowy. Human Biology Association march **2019**

"The Unwilling Student: Teaching Evolutionary Medicine to the Museum Public," podium presentation Nicole Burt, International Society of Evolutionary Medicine and Public Health August **2018**

“Public Perception of the Ethics of Physical Anthropology” Invited Symposium Speaker, at the Society of American Archaeology Meetings in Washington DC April **2018**

“The Role of Informal Education in Teaching Evolutionary Medicine in the US,” poster Nicole Burt, International Society of Evolutionary Medicine and Public health Conference June **2016**

“Weaning trajectories with nitrogen and hydrogen isotope ratios in calcified tissues,” Linda Reynard (presenting author, podium), Nicole Burt and Noreen Tuross American Physical Anthropology Association March **2015**

“Evolve: Gameplay in Introductory Biological Anthropology Courses” Invited Poster, Mindy Pitre, Nicole Burt, and Holly Hunold American Physical Anthropology Association March **2015**

“Anthropologists as Scientists: A Dialogue” Poster, Kisha Supernant and Nicole Burt, American Association of Anthropology December **2014**

“Improving Geolocation using Oxygen Stable isotope Ratios ($\delta^{18}\text{O}$)” Podium presentation of IC Postdoctoral Fellowship Colloquium April **2014**

“Health at Medieval Fishergate House York, UK: An Examination of the Relationship of Diet, Growth, and Sinusitis” Poster for Paleopathology Association April **2014**

“Dietary Reconstruction of the Fishergate House Juveniles Using a New Method of Dentine Microsampling for Stable Isotope Analysis” Podium presentation for American Association of Physical Anthropology April **2013**

“Stable Isotope Reconstruction of Juvenile Diet Using Ribs at Fishergate House, York, UK” Podium presentation Canadian Association Physical Anthropology, November **2012**

“A possible case of scoliosis in a Roman-era woman from Helike, Achaea, Greece.” Poster presentation, Sandra Garvie-Lok, Nicole Burt, and Dora Katsonopoulou for the Canadian Association of Physical Anthropology, November **2012**

“Expectations of Early Childhood Diet: A mini me?” Podium presentation Canadian Anthropology Society (CASCA) Meetings, May **2012**

“A New Method of Dentine Microsampling of Deciduous Teeth for Stable Isotope Analysis: Modern Results.” Poster presentation Association of Physical Anthropology, April **2012**

“Early Childhood Caries and Infant Feeding Practices at Helike, Greece.” Podium presentation Sandra Garvie-Lok and Nicole Burt, Paleopathology Association Meetings, April **2012**

“A New Method of Dentine Microsampling of Deciduous Teeth for Stable Isotope Analysis.” Poster presentation in invited poster symposium, *Advances in Chemical Bioarchaeology*, at American Association of Physical Anthropology Meetings Minneapolis, April **2011**

“A New Method of Dentine Microsampling Deciduous Teeth for Stable Isotope Analysis.” Poster presentation at the Canadian Association of Physical Anthropology Meetings, October **2011**

“Testing the Demirjian Method and the International Demirjian Method on an urban American Sample,” podium presentation at the American Academy of Forensic Sciences Annual Meeting, February **2008**

INVITED PRESENTATIONS

Academic

"Biological Anthropology of Diet and Health" Guest Lecture at CSU April **2018**

"Hominid Evolutions" Guest Lecture at Ursuline College April **2018**

"Evolutionary Medicine" Guest Lecture at Ursuline College March **2018**

“Teeth and Biological Anthropology” Guest Lecture CWRU Dental School Jan **2018**

"Hominid Evolutions" Guest Lecture at Ursuline College April **2017**

"Women in STEM Panel" EnviroScience March **2017**

"Evolutionary Medicine" Guest Lecture at Ursuline College March **2017**

"Moving Beyond Paleofantasies." Annual *Kassen Lecture* at CWRU Oct **2017**

"Reconstructing Unknown Diets: Moving Beyond Paleofantasies." Invited Darwin Day Talk, Cleveland State University Feb **2017**

"Diet and Health, Modern & Evolutionary Perspective." Invited talk for Ecophilia Cleveland Feb **2017**

"Bioethics and Stable Isotope Analysis of Diet." Invited lecture Department of Bioethics Case Western Reserve University Sept **2016**

"You Are What You Eat: The Science of Reconstructing Diet." Explorer Lecture for the Cleveland Museum of Natural History Sept **2015**

"Understanding Stable Isotope Analysis and Reconstructing Human Diet." John Carroll University Department of Biology Seminar Speaker September **2015**

"You Are What You Eat: Stable Isotope Analysis of Modern and Archaeological Human Tissues." Case Western Reserve Department of Biology Seminar Speaker April **2015**

"Using the Demirjian Method," workshop presentation for Michigan State Forensic Anthropology Group, Michigan State University, April, **2008**

"Using the Demirjian Dental Aging Method and Tests of the Method," lecture in 390:Human Osteology, University of Alberta, November **2008**

"The Cardiovascular System I, II, and III, The Lymphatic System, The Digestive System I, II, and II," Guest lecturer undergraduate anatomy ANTR 350, Spring Semester **2008**

"Saving the World with Forensic Anthropology" guest speaker and panel participant at Applying Anthropology: Celebrating the Life and Work of Andrew 'Bud' Whiteford Symposium at Beloit college, September, **2007**

Public

"Reconstructing Unknown Diets: Moving Beyond Paleofantasies" Speakers Bureau talk for the Olmsted Falls Library Aug **2018**

"Are We Still Evolving? Understanding Human Variation, Diet, and Health" for The Greater Cleveland Assoc. of Family and Consumer Sciences (GCAFCS) Aug **2018**

Forensic Anthropology Lab for Junior Medical Camp June **2018**

"You are what you eat," Women's Committee Lunch Presentation Jan **2018**

"Conversations: Dance Macabre: The Medical Archaeology of Plague" **2017**

Forensic Anthropology Lab for Junior Medical Camp June **2017**

Reel Science! Talking the science of “12 Monkeys” **2017**

“Human Health at CMNH.” Invited talk for University Circle Senior Club Feb **2017**

Forensic Anthropology Lab for Junior Medical Camp June **2016**

Reel Science! Talking the science of “Night of the Living Dead” **2016**

“Neanderthal Diet” Presentation for Andover Public Library in association with Smithsonian Visiting Exhibit on Human Evolution July **2015**

“A Fine Kettle of Fish” Presentation for Institute for the Science of Origins (Case Western Reserve University) and Ideastream (NPR) May **2015**

“Natural History of Citrus” Lecture on Vitamin C and Scurvy at Cleveland Museum of Natural History April **2015**

Forensic Anthropology Lab for Junior Medical Camp June **2015**

Reel Science! Talking the science of Fantastic Voyage **2015**

Forensic Anthropology Lab for Junior Medical Camp June **2014**

“Forensic Anthropology: Real Life Case Studies,” guest lecture for The Real Forensic Anthropology (EL55), University of Alberta Faculty of Extension, May, **2010**

Community Outreach and Interviews

Farm Bill Convening: Joint FPC and FARE, co-organizer at Food Policy Coalition and speaker (2018)

Think & Drink with the Extinct, Murder Mystery Night, table host and script editor (2018)

Health Fair Joint CMA/CMNH health fair organizer (2018)

Common Grounds By Cleveland Foundation table host (2017)

Sauropodcast Episode 3 mother’s Milk, with Guests Dr. Katie Hinde and Dr. Nicole Burt (2017)

Explorer Magazine Interviews “Tooth Truth” by John Mangels and “Building on a Healthy Legacy” (2017)

Your Teen for Parents Article “Why family game night is more than family game night” by Diana Simeon (2017)

Think & Drink with the Extinct, Forensics Night Table and table planning (2017)

Health Fair Joint CMA/CMNH health fair organizer (2017)

Our Global Kitchen Curator of Note TV interview with Fox8 (2017)

Members Behind the Science HEALTH hosted activity table (2017)

“Conversations: Not so ‘Elementary’ – Cleveland’s Sherlock and Modern Forensics at the Cleveland public Library (2016)

Taking the Lead on Lead event organizer Community Forum and Fair on Lead Poisoning in Cleveland. Dr. Mary Jean Brown of the CDC keynote speaker (2016)

Power of Poison Exhibition Curator of Note Interviews: 3 print (Cool Cleveland, Cleveland Magazine, Ohio Magazine), 2 TV (Fox8 and Channel 3), and 2 radio (Sound of Applause and Sound Bites) (2016)

Think & Drink with the Extinct, Forensics Night Table and table planning (2016)

DARE to Explore Science instructor for day program on teaching science to grade 5-8 girls (2016)

Health Fair Joint CMA/CMNH health fair organizer (2016)

Scientists in the Classroom National Center of Science Education program for Evolution (2016)

Microbirth Event organizer of documentary viewing and panel moderator (2015)

Health Fair Joint CMA/CMNH health fair organizer (2015)

Think & Drink with the Extinct, Forensics Night Table and table planning (2015)

Article: “Integrating Human Health and Natural History” **The Explorer Magazine** (Dec 1, 2014)

Think & Drink with the Extinct, Health Night Table (2014)

Article: “Researcher cuts teeth in new method” by Jamie Hanlon for **University of Alberta Research news** (April 5, 2012)
<http://www.research.ualberta.ca/en/VP%20Research%20News/2012/04/Researchercutsteethinnewmethod.aspx>

Interviewed by Rod Kurtz for **RadioActive Edmonton** CBC Radio on the Tooth Fairy Project: aired (May 1st, 2012)

PROFESSIONAL DEVELOPMENT

Professional Affiliations

American Association of Physical Anthropology Member (2010 – present)

Paleopathology Association Member (2010 – present)

American Association of Museum (2014 – present)

International Society For Evolution, Medicine & Public Health (2014 – Present)

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Human Biology Association (2018 – present)

Workshops and Education

- Aug 2019 *Urban Food Waste Workshop*, 2 day NSF funded think tank on food waste by RIT, Rochester NY
- Nov 2018 *Outcomes Thinking & Management*, 1 day training by The Foundation Center Midwest, Cleveland OH
- Oct 2018 *Grants Workshops*, 2 – 1 day trainings by GrantsPlus, Cleveland OH
- June 2018 *Racial Equity Training*, 2 Day training by Racial Equity Institute, Cleveland OH
- Oct 2017 *NIH Regional Workshop*, 2 Day training by NIH, Baltimore Convention Center, Baltimore MA
- April 2016 *Health Means Business*, 1 day workshop by Greater Cleveland Partnership, Cleveland OH
- Oct 2014 *Creative Minds in Medicine*, 2 day conferences by Community Partnership for Arts and Culture, Cleveland OH

LEADERSHIP POSITIONS

- Co-Chair Food Policy Committee**, Leading the FPC for a two year term Cleveland (2019-2021)
- Ethics Fellow AAPA**, Competative fellowship (2019-2020)
- Program Committee**, Reviewing abstracts for American Association of Physical Anthropology Cleveland OH (2018)
- Executive Committee Mentee**, American Association of Physical Anthropology (2016-2017)
- Program Committee**, Reviewing abstracts for American Association of Physical Anthropology NOLA (2017)