

Maria A. Nieves-Colón, Ph.D.

Department of Anthropology
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EDUCATION

- 2017 **Doctor of Philosophy in Anthropology**, Arizona State University, Tempe, AZ
- 2012 **Master of Arts in Anthropology**, Arizona State University, Tempe, AZ
- 2009 **Bachelor of Arts magna cum laude in Anthropology and History of the Americas**,
University of Puerto Rico-Río Piedras, San Juan, PR

PROFESSIONAL APPOINTMENTS

- 2021-present **Assistant Professor**, Department of Anthropology, University of Minnesota Twin Cities,
Minneapolis, MN
- 2019-2020 **Affiliated Researcher**, School of Human Evolution and Social Change, Arizona State
University, Tempe, AZ
- 2019-2020 **Senior Scientist**, Astrea Forensics, Claret Bioscience, Santa Cruz, CA
- 2017-2019 **National Science Foundation Postdoctoral Fellow**, Joint affiliation with National
Laboratory of Genomics for Biodiversity (LANGEBIO-CINVESTAV), Irapuato, MX.

PUBLICATIONS

Peer-reviewed Articles (16 total)

- Submitted Caro-Consuegra R*, **Nieves-Colón MA***, Rawls, E, Rubin-de-Celis V, Lizárraga B,
Vidaurre T, Sandoval K, Fejerman L, Stone AC, Moreno-Estrada A, Bosch E. Uncovering
signals of positive selection in Peruvian populations from three ecological regions.
Molecular Biology and Evolution. * = *These authors contributed equally and share co-first
authorship*.
- Submitted Mohammed RM, Turner G, Fowler K, Pateman M, **Nieves-Colón MA**, Fanovich L, Cooke
SB, Dávalos LM, Fitzpatrick SM, Giovas CM, Stokowski M, Wrean AA, Kemp M, LeFebvre
MJ, Mychajliw A. Colonial legacies influence biodiversity lessons: How past trade routes
and power dynamics shape present day scientific research and professional opportunities for
Caribbean scientists. *American Naturalist*.
- In Review Badillo Rivera K*, **Nieves-Colón MA***, Sandoval Mendoza K, Villanueva Dávalos V,
Enriquez Lencinas LE, Chen JW, Zhang ET, Sockell A, Ortiz Tello P, Hurtado GM, Condori
Salas R, Cebrecos R, Manzaneda Choque JC, Manzaneda Choque FP, Yábar Pilco GP,
Rawls E, Eng C, Huntsman S, González Burchard E, Poletti G, Gallo C, Bustamante CD,
Baker JC, Gignoux CR, Wojcik GL, Moreno-Estrada A. Clotting factor genes are associated
with preeclampsia in high altitude pregnant women in the Peruvian Andes. *American
Journal of Human Genetics*. [Pre-print available on MedRxiv](#). * = *These authors contributed
equally and share co-first authorship*.

- In Review **Nieves-Colón MA.** Anthropological genetic insights on Caribbean population history. *Evolutionary Anthropology*.
- 2021 **Nieves-Colón MA,** Blevins KE, Contreras-Sieck MA, Bravo López M. Palogenómica y Bioarqueología en México. *Cuicuilco Revista de Ciencias Antropológicas*. 81:187-223. [Available online](#).
- 2020 Bravo-López M, Villa-Islas V, Rocha C, Villaseñor AB, Solís A, Sandoval-Velasco M, Alcántara K, Gómez-Valdés J, Herrera A, Mejía E, Meraz Moreno A, Moreno Cabrera ML, Moreno-Estrada A, **Nieves-Colón MA,** Olvera J, Pérez-Pérez J, Iversen KH, Rasmussen S, Sandoval-Mendoza K, Wesp J, Zepeda G, Ávila-Arcos MC. Paleogenomic insights into the red complex bacteria *Tannerella forsythia* in pre-hispanic and colonial individuals from Mexico. *Philosophical Transactions of the Royal Society B*. 375: 20190580.
- 2020 Motti JMB, Winingear S, Valenzuela LO, **Nieves-Colón MA,** Harkins KM, García Laborde P, Bravi CM, Guichón R, Stone AC. Identification of the geographic origins of people buried in the Cemetery of the Salesian Mission of Tierra del Fuego through the analysis of mtDNA and stable isotopes. *Journal of Archaeological Science: Reports*. 33: 102559.
- 2020 Nägele K, Posth C, Orbegozo MI, Chinque de Armas Y, Hernandez Godoy ST, González Herrera UM, **Nieves-Colón MA,** Sandoval-Velasco M, Mylopotamitaki D, Radzeviciute R, Laffoon J, Pestle WJ, Ramos-Madrigal J, Lamnidis TC, Schaffer WC, Carr RS, Day JS, Arredondo Antúnez C, Rangel Rivero A, Martínez-Fuentes AJ, Crespo-Torres E, Roksandic I, Stone AC, Lalueza-Fox C, Hoogland M, Roksandic M, Hofman C, Krause J, Schroeder H. Genomic insights into the early peopling of the Caribbean. *Science*. 369: 456-460.
- 2020 Gokhman, D, Nissim-Rafinia M, Agranat-Tamir L, Housman G, García-Perez R, Lizano E, Chernooet O, Mallick S, **Nieves-Colón MA,** Li H, Alpaslan-Roodenberg S, Novak, M, Gu H, Osinski JM, Ferrando-Bernal M, Gelabert P, Lipende I, Mjungu D, Kondova I, Bontrop R, Kullmer O, Weber G, Shahar T, Dvir-Ginzberg M, Faerman M, Quillen EE, Meissner A, Lahav Y, Kandel L, Liebergall M, Prada ME, Vidal JM, Gronostajski RM, Stone AC, Yakir B, Lalueza-Fox C, Pinhasi R, Reich D, Marques-Bonet T, Meshorer E, Carmel L. Differential DNA methylation of vocal and facial anatomy genes in modern humans. *Nature Communications*. 11:1189.
- 2020 **Nieves-Colón MA,** Pestle WJ, Reynolds AW, Llamas B, de la Fuente C, Fowler, K, Skerry K, Crespo-Torres E, Bustamante CD, Stone AC. Ancient DNA reconstructs the genetic legacies of pre-contact Puerto Rico. *Molecular Biology and Evolution*. 37(3):611-620.
- 2018 Belbin GM, **Nieves-Colón MA,** Kenny EE, Moreno-Estrada A, Gignoux CR. Genetic diversity in populations across Latin America: Implications for population and medical genetic studies. *Current Opinions in Genetics & Development*. 53:98-104.
- 2018 Cruz-Dávalos DI, **Nieves-Colón MA,** Sockell A, Poznick GD, Schroeder H, Stone AC, Bustamante CD, Malaspinas AS, Ávila-Arcos MC. In-solution Y-chromosome enrichment on ancient DNA libraries. *BMC Genomics*. 19:608.
- 2018 **Nieves-Colón MA,** Ozga AT, Pestle WJ, Cucina A, Tiesler V, Stanton T, Stone AC. Comparison of two ancient DNA extraction protocols for skeletal remains from tropical environments. *American Journal of Physical Anthropology*. 166:824-836.

- 2017 Díaz-Zabala HJ, **Nieves-Colón MA**, Martínez-Cruzado JC. A mainly circum-Mediterranean origin for West Eurasian mtDNAs in Puerto Rico with strong contributions from the Canary Islands and West Africa. *Human Biology*. 89(2): 1-31.
- 2017 Watkins JK, Blatt SH, Bradbury CA, Alanko GA, Kohn MJ, Lytle ML, Taylor J, Lacroix D, **Nieves-Colón MA**, Stone AC, Butt DP. Determining the affinity of an unprovenanced human skull for repatriation. *Journal of Archaeological Science*. 12: 384-394.
- 2016 Ozga AT, **Nieves-Colón MA**, Honap TP, Sankaranarayanan K, Hofman CA, Milner G, Lewis CM, Stone AC, Warinner C. Successful enrichment and recovery of whole mitochondrial genomes from ancient human dental calculus. *American Journal of Physical Anthropology*. 160(2): 220-228.

Book Chapters (3 total)

- In Review Pestle WJ, **Nieves-Colón MA**, Dine H, Pourmand A. The Tibes burials: New perspectives on ancient lives. In Curet LA and Stringer L (Eds). *Tibes in Time and Space*. Tuscaloosa: University of Alabama Press.
- 2021 Stone JH, **Nieves-Colón MA**. Stepping stones and genomes: Using ancient DNA to reconstruct island colonization. In Napolitano MF, Stone JH and DiNapoli RJ (Eds). *The Archaeology of Island Colonization: Global Approaches to Initial Human Settlement*. Gainesville: University Press of Florida. P. 207-230.
- 2018 **Nieves-Colón MA**, Stone AC. Ancient DNA analysis of archaeological remains. In Katzenberg MA and Grauer AL (Eds). *Biological Anthropology of the Human Skeleton*. Third Edition. New Jersey: John Wiley & Sons. p. 515-544.

Other Edited Works (4 total)

- 2020 Dávalos LM, Austin RM, Balisi MA, Begay RL, Hofman CA, Kemp ME, Lund JR, Monroe C, Mychajliw A, Nelson EA, **Nieves-Colón MA**, Redondo SA, Sabin S, Tsosie KS, Yracheta JM. Pandemics' historical role in inequality [Letter to the Editor]. *Science*. 368(6497): 1322-1323. (All authors contributed equally).
- 2019 **Nieves-Colón MA**. Ancient DNA and Caribbean Archaeology. *The SAA Archaeological Record*. 19(2): 26-31
- 2014 **Nieves-Colón MA**. DNA (Deoxyribonucleic Acid) and Caribbean Archaeology. In Reid BA and Gilmore III RG (Eds.) *Encyclopedia of Caribbean Archaeology*. Gainesville: University Press of Florida. p. 125-126.
- 2012 **Nieves-Colón MA**, Martínez-Cruzado JC. La contribución genética de África Sub-Sahariana a la población de la República Dominicana según el estudio de su ADN mitocondrial. *Cuadernos de Investigación Histórica*, 7: 28-41. Proceedings Coloquio Africa y sus Identidades, University of Puerto Rico-Río Piedras, San Juan, PR.

GRANTS AND FELLOWSHIPS

External funding (5 total)

- 2017-2019 “Understanding the genomic landscape: High altitudes, adaptation and population structure.” **National Science Foundation Postdoctoral Research Fellowship** SBE-1711982; Role: PI (Total Budget \$154,680).
- 2016-2018 “DNA Analysis as a tool for understanding population movement.” **National Science Foundation Doctoral Dissertation Improvement Grant** BCS-1622479; Role: Co-PI with Anne C. Stone, Ph.D. (Total Budget \$25,038).
- 2016-2017 “Reconstructing the peopling of pre-contact Puerto Rico through ancient DNA analysis” **Rust Family Foundation Grant for Archaeological Research** RFF-2016-08; Role: PI (Total Budget \$7,192).
- 2016 “Reconstructing the peopling of pre-Columbian Puerto Rico through ancient DNA analysis” **Sigma Xi Grants-in-Aid of Research Award** G201510151642390; Role: PI (Total Budget \$1,000).
- 2010-2013 **National Science Foundation Graduate Research Fellowship** Award 1000102311; (Total Stipend \$90,000).

Internal funding (9 total)

- 2021 “La Quebrada Archaeology Project Pilot DNA Analysis” **University of Minnesota Department of Anthropology Wilford Funds Endowment Award**; Role: PI (Total Budget \$1,458.00)
- 2016-2017 **School of Human Evolution and Social Change Dissertation Writing Fellowship** (Total Stipend \$18,000).
- 2016 “Understanding human adaptation and population history in the Caribbean islands: A genomics approach” **Arizona State University Center for Evolution and Medicine Venture Fund Grant**; Role: PI (Total Budget \$7,500).
- 2016 “Understanding human adaptation and population history in the Caribbean islands: A genomics approach” **Arizona State University School of Human Evolution and Social Change Graduate Research Grant**; Role: PI (Total Budget \$3,000).
- 2015 “The genomics of adaptation in Caribbean islanders” **Arizona State University Graduate and Professional Student Association Jumpstart Grant** Award 8633; Role: PI (Total Budget \$487).
- 2014 “Reconstructing the peopling of pre-Columbian Puerto Rico through ancient DNA analysis” **Arizona State University School of International Letters and Cultures Foster Latin American Studies Support Grant**; Role: PI (Total Budget \$2,000).
- 2013 “Reconstructing the peopling of pre-Columbian Puerto Rico through ancient DNA analysis” **Sigma-Xi Arizona State University Chapter Grants-in-Aid of Research** Award G2012161222; Role: PI (Total Budget \$500).

- 2013 “Reconstructing the peopling of pre-Columbian Puerto Rico through ancient DNA analysis” **Arizona State University School of Human Evolution and Social Change Graduate Research Grant**; Role: PI (Total Budget \$2,500).
- 2012 “Ancient DNA analysis in pre-Columbian Puerto Rico” **Arizona State University Graduate and Professional Student Association Graduate Research Support Grant**; Role: PI (Total Budget \$750).

INVITED TALKS

Academic (11 total)

- 2021 **Nieves-Colón MA.** “The genetic basis of preeclampsia in an Andean population adapted to high altitude”. Basic Medical Sciences Seminar Series, College of Medicine, University of Arizona. Zoom seminar.
- 2021 **Nieves-Colón MA.** “Utilizando la paleogenómica para trazar la historia poblacional de Puerto Rico”. Interdisciplinary Seminar Series, Department of Biological Sciences, Faculty of General Studies, University of Puerto Rico – Rio Piedras. Zoom Seminar.
- 2021 **Nieves-Colón MA.** “An integrative genomics approach to studying the population history of the Caribbean”. Monthly Seminar Series, Department of Anthropology, University of Washington. Zoom Seminar.
- 2021 **Nieves-Colón MA.** “An integrative genomics approach to studying the population history of the Caribbean”. Colloquium Speaker Series, Department of Anthropology, University of Oregon. Zoom Seminar.
- 2020 **Nieves-Colón MA.** “An integrative genomics approach to population history in Latin America and the Caribbean”. Evolution and Human Adaptation Program, Department of Anthropology, University of Michigan. Zoom Seminar. Presentation available online: <https://youtu.be/QSXfIQP5SU4>
- 2019 **Nieves-Colón MA.** “Reconstructing the diversity and genetic legacies of pre-contact communities in Puerto Rico through ancient DNA analysis”. Department of Anthropology, University of California Santa Barbara, Santa Barbara, CA.
- 2019 **Nieves-Colón MA.** “Utilizando el ADN antiguo para estudiar la historia precolombina de Puerto Rico”. Keynote talk in series: El uso del ADN antiguo en el estudio de la historia humana. National Museum of Anthropology and History, Mexico City, MX.
- 2018 **Nieves-Colón MA.** “El ADN antiguo y el poblamiento precolombino de Puerto Rico”. Cayetano Heredia University, Lima, Peru.
- 2018 **Nieves-Colón MA.** “Utilizando el ADN antiguo para estudiar el poblamiento precolombino de Puerto Rico”. National School of Anthropology and History (ENAH), Mexico City, MX.
- 2016 **Nieves-Colón MA.** “Reconstructing the population history of pre-contact Puerto Rico through ancient DNA analyses”. National Laboratory of Genomics for Biodiversity (LANGEBIO-CINVESTAV), Irapuato, MX.
- 2016 **Nieves-Colón MA.** “Ancient DNA analysis of human skeletal remains from pre-contact Puerto Rico”. Department of Anthropology, University of Notre Dame, Notre Dame, IN.

Public Outreach (8 total)

- 2021 **Nieves-Colón MA.** “ADN Antiguo: Descolonizando las ciencias” Invited speaker for STEAM + Storytelling public outreach event on Zoom. University of Puerto Rico-Humacao Puerto Rico Outstanding Undergraduate Diversified (PROUD) program.
- 2021 **Nieves-Colón MA.** “Investigating the diversity and genetic legacies of pre-contact communities in Puerto Rico through ancient DNA analysis” Invited Zoom lecture for the American Association of University Women, Puerto Rico Chapter Meeting.
- 2020 **Nieves-Colón MA.** “Molecular anthropology and ancient DNA”. STEM Guest Speaker program, John F Kennedy High School. In-class Zoom lecture.
- 2019 **Nieves-Colón MA.** and Stone AC. “El uso del ADN antiguo en el estudio de la historia humana”. Video short. National Museum of Anthropology and History YouTube channel. Available online: <https://youtu.be/TJeDloexsS8>
- 2018 **Nieves-Colón MA.** “Utilizando el ADN antiguo para estudiar el poblamiento precolombino de Puerto Rico”. Public lecture. Ceremonial Center of Tibes Museum, Ponce, PR
- 2018 **Nieves-Colón MA.** “Utilizando el ADN antiguo para estudiar el poblamiento precolombino de Puerto Rico”. Public lecture. University of Puerto Rico-Rio Piedras, San Juan, PR.
- 2018 **Nieves-Colón MA.** “Utilizando el ADN antiguo para estudiar el poblamiento precolombino de Puerto Rico”. Public lecture. University of Puerto Rico-Ponce, Ponce, PR.
- 2018 Sandoval K and **Nieves-Colón MA.** “La historia de la humanidad a través de la antropología y la genómica.”. Public lecture. Science Dissemination Open Days for Youth. National Laboratory of Genomics for Biodiversity (LANGEBIO-CINVESTAV), Irapuato, MX.

CONFERENCE & PANEL PRESENTATIONS

Invited Presentations (9 total)

- 2021 **Nieves-Colón MA.** *Avances y desafíos de la investigación paleogenómica en el Caribe.* Symposium: Oportunidades y desafíos de una arqueogenética humana latinoamericana. XV Jornadas Nacionales de Antropología Biológica, La Plata, Argentina. Virtual-Online meeting.
- 2021 **Nieves-Colón MA.** *To industry and back again: Anthropological genetics outside of the academy.* Symposium: AAAG-AAPA Joint Symposium: Thinking beyond the lab? Anthropological geneticists’ responses to the COVID-19 pandemic and the summer of civil unrest. 90th Annual Meeting of the American Association of Physical Anthropologists, Virtual-Online meeting.
- 2020 **Nieves-Colón MA.** *Using ancient DNA to revisit/disrupt/reconsider the historical record.* Decolonize DNA Day Twitter Conference. Presentation available online: <https://decolonize-dna.org/2020-conference/2020-talk-1/>
- 2018 **Nieves-Colón MA,** Benn-Torres J, Moreno-Estrada A, Stone AC. *Ancestry and genetic diversity of Afro-Caribbean populations from the Lesser Antilles.* Symposium: Employing the Power of DNA to Untangle Caribbean History. 15th Congress of the Latin American Association for Biological Anthropology, Mayagüez, PR.

- 2016 **Nieves-Colón MA**, Pestle WJ, Benn-Torres J, Bustamante CD, Stone AC. *Migration, admixture and selection in the population history of the Caribbean*. Society for Molecular Biology and Evolution Satellite Meeting on the Genetics of Admixed Populations, San Antonio, TX.
- 2016 **Nieves-Colón MA**, Pestle WJ, Stone, AC. *Preliminary ancient DNA analysis suggests a complex origins scenario for pre-contact Puerto Rican populations*. Symposium: Primer of the Ancient Mariner: New perspectives on aDNA research and the prehistoric colonization of islands. 81st Annual Meeting of the Society for American Archaeology, Orlando, FL.
- 2014 **Nieves-Colón MA**, Pestle WJ, Stone, AC. *Ancient DNA and the population history of pre-Columbian Puerto Rico*. Symposium: Genomic perspectives on the population history of the Americas. 2014 Annual Meeting of the Society for Molecular Biology and Evolution, San Juan, PR.
- 2012 **Nieves-Colón MA**, Díaz-Zabala HJ, Martínez-Cruzado JC. *Sub-Saharan African and West Eurasian maternal (mtDNA) lineages in the Dominican Republic*. Symposium: Recent research in the Pre-Colonial Greater Antilles. 77th Annual Meeting of the Society for American Archaeology, Memphis, TN.
- 2009 **Nieves-Colón, MA** and Martínez-Cruzado JC. *La contribución genética de África Sub-Sahariana a la población de la República Dominicana según el estudio de su ADN mitocondrial*. Coloquio Africa y sus Identidades, University of Puerto Rico, Río Piedras Campus, San Juan, PR.

Contributed Presentations (7 total)

- 2019 **Nieves-Colón MA**, Benn-Torres J, Moreno-Estrada A, Stone, AC. *Genomic perspectives on the Afro-Caribbean diaspora in the Lesser Antilles*. Mexico Population Genomics Meeting 4, Mexico City, MX.
- 2018 Pestle WJ and **Nieves-Colón MA**. *A reassessment of ancient Puerto Rican paleodiet and mobility*. Symposium: Stable isotopes applied to paleodietary studies and mobility in Latin American Archeology. 15th Congress of the Latin American Association for Biological Anthropology, Mayagüez, PR.
- 2018 **Nieves-Colón MA**, Pestle WJ, Fowler K, Skerry K, Crespo-Torres E, Bustamante CD, Stone, AC. *Reconstructing the population history of Puerto Rico via ancient DNA analysis*. Society for Molecular Biology and Evolution Satellite Meeting on Modern Methods for Ancient DNA, Providence, RI.
- 2017 **Nieves-Colón MA**, Pestle WJ, Benn-Torres J, Stone, AC. *Migration, admixture and genetic continuity in pre and post-contact Puerto Rico*. 86th Annual Meeting of the American Association of Physical Anthropologists, New Orleans, LA.
- 2016 **Nieves-Colón MA**, Stone AC. *Ancient DNA preservation in tropical pre-contact archaeological sites in the Americas*. Symposium: Into the great warm open: Ancient DNA beyond the temperate frontier. 2016 Annual Meeting of the Society for Molecular Biology and Evolution, Gold Coast, Queensland, Australia.
- 2012 **Nieves-Colón MA**, Díaz-Zabala HJ, Martínez-Cruzado JC. *Sub-Saharan African and West Eurasian mtDNA lineages in the Dominican Republic*. 81st Annual Meeting of the American Association of Physical Anthropologists, Portland, OR.

- 2011 **Nieves-Colón MA**, Martínez-Cruzado JC. *The contribution of sub-Saharan African maternal (mtDNA) lineages to the genetic heritage of the Dominican Republic*. 24th Congress of the International Association for Caribbean Archaeology, University of the Antilles and Guyane, Martinique.

Conference Sessions Organized (2 total)

- 2020 **Nieves-Colón MA**. *Decolonizing Anthropological Genetics*. Organized and moderated roundtable session for the 2020 Annual Meeting of the American Anthropological Association, Raising our Voices Online event. Presentation available online: <https://youtu.be/7On9bTsFUZU>
- 2018 **Nieves-Colón MA**, Reynolds Austin W. *Genomic approaches to understanding regional histories in the Americas*. Co-organized and moderated invited poster session for the 87th Annual Meeting of the American Association of Physical Anthropologists, Austin, TX.

Invited Panelist (2 total)

- 2018 Public roundtable: *Raza, racismo, antropología y evolución*. National Museum of Anthropology and History, Mexico City, MX.
- 2019 Conference roundtable: *Geopolitical contexts (and conflicts) related to archaeological and bioanthropological knowledge production: The case of ancient DNA research from the North American region*. 2019 Annual Meeting of the American Anthropological Association, Vancouver, CA.

Contributed Conference Posters (16 total)

- 2021 Badillo Rivera K*, **Nieves-Colón MA***, Sandoval Mendoza K, Villanueva Dávalos V, Enriquez Lencinas LE, Chen JW, Zhang ET, Sockell A, Ortiz Tello P, Hurtado GM, Condori Salas R, Cebrecos R, Manzaneda Choque JC, Manzaneda Choque FP, Yábar Pilco GP, Rawls E, Eng C, Huntsman S, González Burchard E, Poletti G, Gallo C, Bustamante CD, Baker JC, Gignoux CR, Wojcik GL, Moreno-Estrada A. *Clotting factor genes are associated with preeclampsia in high altitude pregnant women in the Peruvian Andes*. Midwest Population Genetics Meeting, University of Wisconsin Madison, Madison, WI.
- 2019 Caro-Consuegra R, **Nieves-Colón MA**, Rawls E, Obregón-Tito A, Tito R, Lewis C, Sandoval-Mendoza K, Bustamante CD, Wojcik GL, Gignoux C, Baker J, Fejerman L, Vidaurre T, Lizárraga B, Rubín de Celis V, Stone AC, Moreno-Estrada A, Bosch E. *Identifying signals of positive selection in Peruvian populations*. Human Evolution: Fossils, Ancient and Modern Genomes, Hinxton, UK.
- 2019 **Nieves-Colón MA**, Villa-Islas V, Ávila-Arcos MC, Moreno-Estrada A, García Moreno GZ, Sandoval-Mendoza K. *Paleogenomic study of the pre-contact site of Cañada de la Virgen, Guanajuato, Mexico*. 2019 Annual Meeting of the Society for Molecular Biology and Evolution, Manchester, UK.
- 2019 **Nieves-Colón MA**, Rawls E, Obregón-Tito A, Tito R, Lewis C, Sandoval-Mendoza K, Bustamante CD, Wojcik GL, Gignoux C, Baker J, Fejerman L, Vidaurre T, Lizárraga B, Rubín de Celis V, Stone AC, Moreno-Estrada A. *The genomic landscape of the Peruvian Andes*. 88th Annual Meeting of the American Association of Physical Anthropologists, Cleveland, OH.

- 2018 **Nieves-Colón MA**, Benn-Torres J, Stone AC. *Genome-wide admixture patterns in Afro-Caribbean populations from the Lesser Antilles*. Invited Poster Symposium: Genomic approaches to understanding regional histories in the Americas. 87th Annual Meeting of the American Association of Physical Anthropologists, Austin, TX.
- 2018 Winingear S, Motti JB, **Nieves-Colón MA**, Harkins K, Guichón RA, Stone AC. *Ancient mitochondrial DNA analysis at Misión Salesiana, Tierra del Fuego*. Invited Poster Symposium: Genomic approaches to understanding regional histories in the Americas. 87th Annual Meeting of the American Association of Physical Anthropologists, Austin, TX.
- 2018 **Nieves-Colón MA**, Benn-Torres J, Moreno-Estrada A, Stone AC. *Genetic diversity of Afro-descendant communities from the Lesser Antilles*. Mexico Population Genomics Meeting 3, Irapuato, Guanajuato, MX.
- 2017 **Nieves-Colón MA**, Pestle WJ, Fowler K, Skerry K, Crespo-Torres E, Bustamante CD, Stone AC. *Ancient DNA evidence for the peopling of Puerto Rico*. Second International Human Migration Conference, Mexico City, MX.
- 2017 **Nieves-Colón MA**, Pestle WJ, Benn-Torres J, Bustamante CD, Stone AC. *7,000 years of change: Migration and admixture in the population history of the Caribbean*. 2017 Annual Meeting of the Society for Molecular Biology and Evolution, Austin, TX.
- 2017 Cruz-Davalos DI, Sockell A, **Nieves-Colón MA**, Poznik DG, Schroeder H, Bustamante CD, Malaspinas AS, Avila-Arcos MC. *The performance of in-solution capture enrichment for the human Y chromosome*. 2017 Annual Meeting of the Society for Molecular Biology and Evolution, Austin, TX.
- 2016 Stone AC, **Nieves-Colón MA**, Ozga AT, Till CE, Fowler KF, Nockerts R, Wilson M, Gilby I, Pusey A. *The landscape of mitochondrial genetic diversity in chimpanzees from Gombe National Park and across the genus Pan*. 2016 Annual Meeting of the Society for Molecular Biology and Evolution, Gold Coast, Queensland, Australia.
- 2015 **Nieves-Colón MA**, Carpenter M, Adams AF, Pestle WJ, Bustamante CD, Stone AC. *Preliminary insights into the genetic diversity of pre-contact Puerto Rican populations*. 2015 Annual Meeting of the Society for Molecular Biology and Evolution, Vienna, Austria.
- 2015 **Nieves-Colón MA**, Ozga A, Honap TP, Pestle WJ, Warinner C, Stone AC. *Comparison of aDNA yields from calculus and tooth roots in pre-Columbian skeletal remains*. 84th Annual Meeting of the American Association of Physical Anthropologists, St. Louis, MO.
- 2014 **Nieves-Colón MA**, Pestle WJ, Stone AC. *Ancient DNA analysis of human skeletal remains from pre-Columbian Puerto Rico*. 83rd Annual Meeting of the American Association of Physical Anthropologists, Calgary, Alberta, Canada.
- 2013 **Nieves-Colón MA**, Pestle WJ, Stone AC. *Preliminary assessment of DNA preservation in skeletal remains from three pre-Columbian Puerto Rican sites*. 25th Congress of the International Association for Caribbean Archaeology, San Juan, PR.
- 2012 **Nieves-Colón MA**, Diaz-Matallana M, Carrero-Gonzalez I, Curbelo-Canabal F, Galanther J, Perez-Quinones ML, Diaz-Zabala HJ, Wever OR, Mercedes-de-la-Cruz F, Alvarez-Serrano A, Gonzalez Burchard E, Martinez-Cruzado JC. *Rediscovering the people who greeted Columbus through control region and complete mtDNA sequence analysis*. 62nd Annual Meeting of the American Society of Human Genetics, San Francisco, CA.

RESEARCH WORKING GROUPS

- 2020-present Member, Global Equity Working Group, International Common Disease Alliance
<https://www.icda.bio/>
- 2019-2021 Member, National Socio-Environmental Synthesis Center (SESYNC) Workshop Group: *The death and life of biodiversity: Modeling extinction and resilience on islands*
<https://www.sesync.org/project/pursuit-program/the-death-and-life-of-biodiversity-modeling-extinction-and-resilience-on>

TEACHING

University teaching experience

- 2021-present **Professor**, University of Minnesota Twin Cities, Minneapolis, MN
- History of Human Health and Disease (*Online*)
 - Human Evolution
 - Critical Seminar in Anthropology of Race and Racism (*Graduate*)
- 2019 **Invited Visiting Professor**, National School of Anthropology and History, Mexico City
- Paleogenomics and Anthropology short course (*In-person, cross-listed undergraduate/graduate*). Co-taught with Anne C. Stone, Ph.D. Course materials publicly available: https://github.com/mnievesc/ENAH_curso_aDNA_2019
- 2014 **Instructor of Record**, Arizona State University, Tempe, AZ
- Disease and Human Evolution (*Online*)
- 2013-2016 **Teaching Assistant**, Arizona State University, Tempe, AZ
- Global History of Health (*Online*)
 - McGlobalization: Migration, McDonald's and Mass Media (*Online*)
 - Peopling of the World (*In-person*)
 - Principles of Human Genetics (*In-person*)
 - Disease and Human Evolution (*Online and in-person*)

Other teaching experience

- 2018 **Volunteer Instructor**, American Association of Anthropological Genetics 2018 Application of Genetics to Anthropological Research (AGAR) Bioinformatics Workshop, State University of New York at Buffalo. Course materials publicly available:
https://github.com/mnievesc/AAAGs_2018/tree/master/Session3_VCFFormat
- 2016 **Volunteer Instructor**, “Intro to Command Line” training workshops, School of Life Sciences, Arizona State University.
- 2009-2016 **K-12 Social Studies Tutor**, Tutor.com, Online Tutoring Service

STUDENTS SUPERVISED

Current Graduate Students - Primary adviser

- Laura N. Pott (2021-present) Department of Anthropology, University of Minnesota
- Jaime Zolik (2021-present) Department of Anthropology, University of Minnesota

Current Graduate Students - Committee member

- Daniela Orozco Pérez (2021-present) Integrative Biology Program, National Laboratory of Genomics for Biodiversity

Past Undergraduate Students - Honors thesis director

- Daniela Orozco Pérez (2019-2020) Genomic Sciences Program, National Autonomous University of Mexico
- Kathleen Fowler (2015-2017) School of Human Evolution and Social Change, Arizona State University

PROFESSIONAL SERVICE

Peer review

2016-present *American Journal of Physical Anthropology, Human Biology, Molecular Biology and Evolution, Proceedings of the National Academy of Sciences, American Journal of Human Genetics, Science, Latin American Antiquity, Genome Biology and Evolution, Plos One, Evolutionary Anthropology, Revista Argentina de Antropología Biológica.*

Grant review

2021 National Science Foundation Biological Anthropology Grants Program
2021 Graduate Women in Science (GWIS) National Fellowship Program
2019-2020 Rust Family Foundation Grants for Archaeological Research Program
2017 National Geographic Early Career Grants Program
2013–2016 Arizona State University Graduate & Professional Student Association Grants Program.

Service to professional organizations

2020-present Member-at-large, Biological Anthropology Section, American Association of Anthropology
2016-2017 Outreach committee member, American Association of Anthropological Genetics

Departmental/University service (University of Minnesota Twin Cities)

2021-present Graduate committee member, Department of Anthropology
2021-present Creating Inclusive Cohorts (CIC) Graduate Admissions committee member, Department of Anthropology

Departmental/University service (Arizona State University)

2014-2015 Student representative to faculty search committee, Center for Evolution and Medicine

Outreach

2014-2021 Volunteer for Ask-a-Biologist, School of Life Sciences, Arizona State University
2018 Volunteer for Skype a Scientist outreach program.
2011 Speaker for K-12 Next Generation of Innovator Speaker Series, Phoenix, AZ.

PROFESSIONAL DEVELOPMENT

2021 Teaching with Writing Online, Short Course, Center for Writing, University of Minnesota Twin Cities, Minneapolis, MN
2018 Taller de Antropología Integrativa: Abrazando la diversidad metodológica y una teoría evolutiva contemporánea, National School of Anthropology and History (ENAH), Mexico City, MX.

- 2012 Preparing Future Faculty Program, Arizona State University
- 2012, 2014 Application of Genomics to Anthropological Research (AGAR) Workshop
American Association of Anthropological Genetics, Texas Biomedical Research Institute,
San Antonio, TX
- 2010 Ancient DNA Training Program, Paleo-DNA Laboratory, Lakehead University, Thunder
Bay, Ontario, Canada
- 2009 Portanta Megalithic Osteology Training Program, National Archaeology Museum,
Lisboa, Portugal

ADDITIONAL RESEARCH, LABORATORY & FIELDWORK EXPERIENCE

Computational genomics

- 2019 Visiting Researcher, Institute of Evolutionary Biology (UPF-CSIC), Department of
Experimental and Health Sciences, Universitat Pompeu Fabra, Barcelona, Catalonia, Spain
- 2019 Visiting Researcher, Department of Biomedical Data Science, Stanford University School of
Medicine, Stanford, CA
- 2014 Visiting Researcher, Department of Genetics, Stanford University School of Medicine,
Stanford, CA

Ancient DNA and genomics laboratory

- 2010-2017 Graduate Research Assistant, Molecular Anthropology and Ancient DNA Laboratories,
School of Human Evolution and Social Change, Arizona State University, Tempe, AZ
- 2014 Visiting Researcher, Laboratories of Molecular Anthropology and Microbiome Research,
University of Oklahoma, Norman, OK
- 2007-2009 Undergraduate Research Assistant, Population and Evolutionary Genetics Laboratory,
University of Puerto Rico-Mayagüez, Mayagüez, PR

Bioarcheology

- 2007-2009 Undergraduate Research Assistant, Forensic Anthropology and Bioarchaeology Laboratory,
Archaeological Research Center, University of Puerto Rico-Río Piedras, San Juan, PR

Archaeological fieldwork

- 2009, 2010 Field Assistant, Ceremonial Center of Tibes Archaeological Project, Ponce, PR
- 2008 Field Assistant, Project for the Political Integration of the Center of Yucatán, Yaxuna, MX
- 2007 Field and Laboratory Assistant, Machuca Archaeological Project, University of Puerto Rico-
Mayagüez, Mayagüez, PR
- 2006 National Science Foundation Research Experience for Undergraduates: New
Philadelphia Project Field School in Archaeology and Laboratory Techniques

SELECT MEDIA COVERAGE

- 2020 “Expuesto el origen de los primeros pobladores” by Kevin Alicea-Torres for El Nuevo Día. June 27, 2020. <https://bit.ly/2YOgG3g>
- 2020 “Ancient DNA and Mofongo” interview on Sausage of Science Podcast, Episode 62. February 17, 2020. <https://soundcloud.com/humanbiologyassociation/sos-62-ancient-dna-and-mofongo-with-dr-maria-nieves-colon/s-oAbQu>
- 2019 “New research links ancient indigenous DNA to living Puerto Ricans” CBS News. September 23, 2019. <https://www.cbsnews.com/video/new-research-links-ancient-indigenous-dna-to-living-puerto-ricans/>
- 2019 “How ancient DNA can help recast colonial history” By Ed Yong for The Atlantic. September 18, 2019. <https://www.theatlantic.com/science/archive/2019/09/what-ancient-dna-says-about-puerto-ricos-history/598246/>
- 2019 “ENAH busca fortalecer estudios de genómica en materiales biológicos antiguos” INAH Boletín 123. May 7, 2019. <https://www.inah.gob.mx/boletines/8102-enah-busca-fortalecer-estudios-de-genomica-en-materiales-biologicos-antiguos>
- 2018 “Genética y Migración” interview on radio show La Ciencia que somos, Radio UNAM 96.1 FM. October 12, 2018. Panelists: Victor Acuña-Alonzo (ENAH), **Maria A. Nieves-Colón** (LANGEBIO) and Sandra Romero-Hidalgo (INMEGEN). <http://www.radiopodcast.unam.mx/podcast/audio/16838>

LANGUAGES

Spanish (Native Proficiency), English (Native Proficiency)

COMPUTATIONAL/STATISTICAL LANGUAGES

R, UNIX, Python

PROFESSIONAL MEMBERSHIPS

American Association of Biological Anthropologists
American Association of Anthropological Genetics
American Anthropological Association
Latin American Biological Anthropology Association
Society for Molecular Biology and Evolution
American Society of Human Genetics
Society for American Archaeology

REFERENCES

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