

## Maria A. Nieves-Colón, Ph.D.

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<https://nievescolonlab.org>

### EDUCATION

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- 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

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

### PUBLICATIONS

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**Peer-reviewed Articles (20 total)**      \* = *These authors contributed equally.*

- 2023      Villa-Islas V, Izarraras-Gomez A, Larena M, Perez Campos EM, Sandoval-Velasco M, Rodríguez-Rodríguez JE, Bravo-Lopez M, Moguel B, Fregel R, Garfias-Morales E, Medina Tretmanis J, Velázquez-Ramírez DA, Herrera-Muñoz A, Sandoval K, **Nieves-Colón MA**, García Moreno GZ, Villanea FA, Villanueva Medina EF, Aguayo-Haro R, Valdiosera C, Ioannidis AG, Moreno-Estrada A, Jay F, Huerta-Sanchez E, Moreno-Mayar V, Sánchez-Quinto F, Ávila-Arcos MC. Demographic history and genetic structure in pre-hispanic Central Mexico. *Science Advances*.380(6645): eadd6142.
- 2023      Kowal E, Weyrich LS, Argüelles JM, Bader AC, Colwell C, Cortez AD, Davis JL, Figueiro G, Fox K, Malhi RS, Matisoo-Smith E, Nayak A, Nelson EA, Nicholas G, **Nieves-Colón MA**, Russell L, Ulm S, Vergara-Silva F, Villanea FA, Wagner JK, Yracheta JM, Tsosie KM. Community partnerships are fundamental to ethical ancient DNA research. *Human Genetics and Genomics Advances*. 4(2): 100161. (Authors listed alphabetically due to equal contributions).
- 2022      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*. 39(8): msac158.

- 2022 **Nieves-Colón MA\***, Badillo Rivera K\*, Sandoval Mendoza K, Villanueva Dávalos V, Enriquez Lencinas LE, Mendoza-Revilla J, Adhikari K, González-Buenfil R, 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*. 109(6): 1117-1139.
- 2022 Ávila-Arcos MC\*, de la Fuente Castro\*, **Nieves-Colón MA\***, Raghavan M\*. Recommendations for sustainable ancient DNA research in the Global South: Voices from a new generation of paleogenomicists. *Frontiers in Genetics. Contribution to Special Issue: The ethics and challenges of studying the genetics of marginalized populations*. 13. doi: 10.3389/fgene.2022.880170. (Authors listed alphabetically due to equal contributions).
- 2022 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*. 200(1): 140-155.
- 2022 Mendoza-Revilla J, Chacón-Duque JC, Fuentes-Guajardo M, Ormond L, Wang K, Hurtado M, Villegas V, Granja V, Acuña-Alonzo V, Jaramillo C, Arias W, Barquera Lozano R, Gómez-Valdés J, Villamil-Ramírez H, Silva de Cerqueira CC, Badillo Rivera K, **Nieves-Colón MA**, Gignoux CR, Wojcik GL, Moreno-Estrada A, Hunemeier T, Ramallo V, Schuler-Faccini L, Gonzalez-José R, Bortolini MC, Canizales-Quinteros S, Gallo C, Poletti G, Bedoya G, Rothhammer F, Balding D, Fumagalli M, Adhikari K, Ruiz-Linares A, Hellenthal G. Disentangling signatures of selection before and after European colonization in Latin Americans. *Molecular Biology and Evolution*. 39(4). doi: 10.1093/molbev/msac076
- 2022 **Nieves-Colón MA**. Anthropological genetic insights on Caribbean population history. *Evolutionary Anthropology*. 31: 118-137.
- 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, Mylotpotamitaki 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, Chernoev 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 unprovenienced 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 (6 total)**

- In Press 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.
- In Review Reynolds AW, Lea AJ, **Nieves-Colón MA**. Genomics research in lower and middle income countries: Ethics, common challenges and emerging solutions. In Uren, C (Ed.) *Population Genomics in the Developing World: Concepts, Applications and Challenges*. Elsevier.

- In Review De la Fuente Castro C, **Nieves-Colón MA**. Introducción a la paleogenética y sus aportes a la comprensión de la filogenia de *Homo sapiens*. In Gonzalo-José R, Hünemeier T (Eds.). *Introducción a la Antropología Biológica*. Second Edition Ebook. Digital Commons University of South Florida.
- In Review Nägele K, **Nieves-Colón MA**. Ancient DNA analysis and its applications to pre-contact Caribbean archaeology. In Hoogland MLP, Weston D, Chinque de Armas Y (Eds.). *The Routledge Handbook of Bioarchaeology in the Caribbean*. Routledge Handbooks.
- 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 (7 total)**

- 2022-2023 “La Quebrada Archaeology Project pilot ancient DNA study”. **AABA Cobb Professional Development Grant**; Role: PI (Total Budget \$7,500.00)
- 2022-2023 “La Quebrada Archaeology Project pilot ancient DNA study”. **Rust Family Foundation Grant for Archaeological Research**; Role: PI (Total Budget \$7,710.00)
- 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 (11 total)***

- 2023 “La Quebrada Ancient DNA Study” **University of Minnesota College of Liberal Arts Seed Grant Award**; Role: PI (Total Budget: \$4,250).
- 2022 “Using ancient DNA to study the peopling of the Caribbean” **University of Minnesota Office of the Vice President for Research Grant-in-Aid of Research**; Award #629049; Role: PI (Total Budget: \$37,019).
- 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

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### *Academic (20 total)*

- 2023 Coffee Hour Seminar. Department of Geography, College of Liberal Arts, University of Minnesota Twin Cities.
- 2022 Science at the Intersection of Genetics, Identity and Health Workshop. Department of Evolutionary Anthropology, Duke University.
- 2022 Online July Journal Club hosted by *The American Journal of Human Genetics*. [Recording available online](#).
- 2022 Department of Anthropology, University of California San Diego. Zoom seminar.
- 2022 Department of Biological Sciences, College of Arts and Sciences, Pontifical Catholic University of Puerto Rico. Zoom seminar.
- 2022 Emerging Scholars Speaker Series. Anthropology Department, College of Arts and Sciences, Boston University. Zoom seminar.
- 2022 Genome Sciences Seminar Series, Center for Public Health Genomics, School of Medicine, University of Virginia.
- 2022 Department of Social Sciences and History, College of Arts and Sciences, Pontifical Catholic University of Puerto Rico. Zoom seminar.
- 2021 Weekly Seminar Series, Department of Ecology, Evolution and Behavior, College of Biological Sciences, University of Minnesota Twin Cities.
- 2021 Basic Medical Sciences Seminar Series, College of Medicine, University of Arizona.
- 2021 Interdisciplinary Seminar Series, Department of Biological Sciences, Faculty of General Studies, University of Puerto Rico – Rio Piedras.
- 2021 Monthly Seminar Series, Department of Anthropology, University of Washington.
- 2021 Colloquium Speaker Series, Department of Anthropology, University of Oregon.
- 2020 Evolution and Human Adaptation Program, Department of Anthropology, University of Michigan. [Presentation available online](#).
- 2019 Department of Anthropology, University of California Santa Barbara, Santa Barbara, CA.
- 2019 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 Cayetano Heredia University, Lima, Peru.
- 2018 National School of Anthropology and History (ENAH), Mexico City, MX.
- 2016 National Laboratory of Genomics for Biodiversity (LANGEBIO-CINVESTAV), Irapuato, MX.
- 2016 Department of Anthropology, University of Notre Dame, Notre Dame, IN.

### ***Public Outreach (12 total)***

- 2023 Public lecture during *Eventos del Mes de la Cultura Afroperuana*. Hosted by Ministry of Culture, Lima, Peru. Co-presented with J.L. Santa Cruz Alcalá.
- 2022 Invited lecture hosted by Eden Prarie High School Anthropology and Archaeology Club.
- 2022 Invited lecture hosted by MedLife Student Society, Ponce, Puerto Rico Chapter.
- 2022 Public lecture hosted by The Maya Society of Minnesota. Hamline University, St Paul, MN.
- 2021 Invited speaker for STEAM + Storytelling public outreach event hosted by University of Puerto Rico-Humacao Puerto Rico Outstanding Undergraduate Diversified (PROUD) program.
- 2021 Invited lecture for the American Association of University Women, Puerto Rico Chapter.
- 2020 Invited lecture for the STEM Guest Speaker program, John F Kennedy High School.
- 2019 Speaker for “El uso del ADN antiguo en el estudio de la historia humana”. National Museum of Anthropology and History YouTube channel. [Video short](#).
- 2018 Public lecture hosted by Ceremonial Center of Tibes Museum, Ponce, PR
- 2018 Public lecture hosted by University of Puerto Rico-Rio Piedras, San Juan, PR.
- 2018 Public lecture hosted by University of Puerto Rico-Ponce, Ponce, PR.
- 2018 Public lecture hosted by Science Dissemination Open Days for Youth. National Laboratory of Genomics for Biodiversity (LANGEBIO-CINVESTAV), Irapuato, MX. Co-presented with K. Sandoval.

### **CONFERENCE & PANEL PRESENTATIONS**

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#### ***Invited Presentations (13 total)***

- 2023 *Pilot ancient DNA study of a Historic Afro-diasporic population in Peru*. Symposium: Paleogenomics. XXIII International Congress of Genetics, Melbourne, Australia.
- 2023 *Investigating genetic factors associated with preeclampsia among pregnant families in the Peruvian Andes*. Symposium: Towards a Holistic Approach – Investigating the genetic underpinnings of phenotypic variation. 92<sup>nd</sup> Annual Meeting of the American Association of Biological Anthropologists, Reno, NV.
- 2022 *Advances and challenges in Caribbean paleogenomics research*. Symposium: Archaeology of the Circum-Caribbean Indigenous Populations: New Insights into their Ways of Life, Mobility, and Interactions. 87<sup>th</sup> Annual Meeting of the Society for American Archaeology, Chicago, IL.
- 2022 *Using ancient DNA to revisit the historical record of Latin America*. Symposium: Disrupting Genomics: Bringing Critical and Theoretical Approaches into Practice. 91<sup>st</sup> Annual Meeting of the American Association of Biological Anthropologists, Denver, CO.
- 2021 *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 *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. 90<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Virtual-Online meeting.

- 2020 *Using ancient DNA to revisit/disrupt/reconsider the historical record.* Decolonize DNA Day Twitter Conference. [Presentation available online.](#)
- 2018 *Ancestry and genetic diversity of Afro-Caribbean populations from the Lesser Antilles.* Symposium: Employing the Power of DNA to Untangle Caribbean History. 15<sup>th</sup> Congress of the Latin American Association for Biological Anthropology, Mayagüez, PR.
- 2016 *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 *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. 81<sup>st</sup> Annual Meeting of the Society for American Archaeology, Orlando, FL.
- 2014 *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 *Sub-Saharan African and West Eurasian maternal (mtDNA) lineages in the Dominican Republic.* Symposium: Recent research in the Pre-Colonial Greater Antilles. 77<sup>th</sup> Annual Meeting of the Society for American Archaeology, Memphis, TN.
- 2009 *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 *Genomic perspectives on the Afro-Caribbean diaspora in the Lesser Antilles.* Mexico Population Genomics Meeting 4, Mexico City, MX.
- 2018 *A reassessment of ancient Puerto Rican paleodiet and mobility.* Symposium: Stable isotopes applied to paleodietary studies and mobility in Latin American Archeology. 15<sup>th</sup> Congress of the Latin American Association for Biological Anthropology, Mayagüez, PR.
- 2018 *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 *Migration, admixture and genetic continuity in pre and post-contact Puerto Rico.* 86<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, New Orleans, LA.
- 2016 *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 *Sub-Saharan African and West Eurasian mtDNA lineages in the Dominican Republic.* 81<sup>st</sup> Annual Meeting of the American Association of Physical Anthropologists, Portland, OR.
- 2011 *The contribution of sub-Saharan African maternal (mtDNA) lineages to the genetic heritage of the Dominican Republic.* 24<sup>th</sup> Congress of the International Association for Caribbean Archaeology, University of the Antilles and Guyane, Martinique.



### **Conference Sessions Organized (2 total)**

- 2020 *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](#).
- 2018 *Genomic approaches to understanding regional histories in the Americas*. Co-organized and moderated invited poster session for the 87<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Austin, TX.

### **Invited Panelist (3 total)**

- 2022 Public roundtable: *Addressing race and racism in anthropological genetics and genomics*. Emerging Scholars Speaker Series. Anthropology Department, College of Arts and Sciences, Boston University. Zoom event.
- 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 *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 *Identifying signals of positive selection in Peruvian populations*. Human Evolution: Fossils, Ancient and Modern Genomes, Hinxton, UK.
- 2019 *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 *The genomic landscape of the Peruvian Andes*. 88th Annual Meeting of the American Association of Physical Anthropologists, Cleveland, OH.
- 2018 *Genome-wide admixture patterns in Afro-Caribbean populations from the Lesser Antilles*. Invited Poster Symposium: Genomic approaches to understanding regional histories in the Americas. 87<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Austin, TX.
- 2018 *Ancient mitochondrial DNA analysis at Misión Salesiana, Tierra del Fuego*. Invited Poster Symposium: Genomic approaches to understanding regional histories in the Americas. 87<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Austin, TX.
- 2018 *Genetic diversity of Afro-descendant communities from the Lesser Antilles*. Mexico Population Genomics Meeting 3, Irapuato, Guanajuato, MX.
- 2017 *Ancient DNA evidence for the peopling of Puerto Rico*. Second International Human Migration Conference, Mexico City, MX.
- 2017 *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 *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 *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 *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 *Comparison of aDNA yields from calculus and tooth roots in pre-Columbian skeletal remains.* 84<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, St. Louis, MO.
- 2014 *Ancient DNA analysis of human skeletal remains from pre-Columbian Puerto Rico.* 83<sup>rd</sup> Annual Meeting of the American Association of Physical Anthropologists, Calgary, Alberta, Canada.
- 2013 *Preliminary assessment of DNA preservation in skeletal remains from three pre-Columbian Puerto Rican sites.* 25<sup>th</sup> Congress of the International Association for Caribbean Archaeology, San Juan, PR.
- 2012 *Rediscovering the people who greeted Columbus through control region and complete mtDNA sequence analysis.* 62<sup>nd</sup> Annual Meeting of the American Society of Human Genetics, San Francisco, CA.

## RESEARCH WORKING GROUPS

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- 2020-present Member, Global Equity Working Group, [International Common Disease Alliance](#)
- 2019-2021 Member, National Socio-Environmental Synthesis Center (SESYNC) Workshop Group: *The death and life of biodiversity: Modeling extinction and resilience on islands*

## TEACHING

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\* = course developed by M. Nieves-Colón, † = course co-developed with other instructors

### *Academic semester courses*

- 2021-present **Instructor of Record**, Department of Anthropology, University of Minnesota Twin Cities,
- Fundamentals of Anthropological Genetics\* Spring 2023
  - Molecular Anthropology\* (*Graduate*) Spring 2022-present
  - History of Health and Disease\* Spring 2021-present
  - Human Evolution Fall 2021-present
  - Anthropology of Race and Racism† (*Graduate*) Fall 2021
- 2014 **Instructor of Record**, School of Human Evolution and Social Change, Arizona State University
- Disease and Human Evolution (*Online*) Fall 2014
- 2013-2016 **Teaching Assistant**, School of Human Evolution and Social Change, Arizona State University
- Global History of Health Spring 2016
  - Migration, McDonald's and Mass Media (*Online*) Spring 2016
  - Peopling of the World Spring 2015
  - Principles of Human Genetics Fall 2015
  - Disease and Human Evolution (*Online/In-person*) Fall 2013-Spring 2014

### *Short courses and workshops*

- 2022 **Instructor**, Molecular Anthropology Theory and Practice Summer Course for Undergraduates\*, Pontifical Catholic University of Puerto Rico, Ponce, PR
- 2019 **Invited Visiting Professor**, Paleogenomics and Anthropology Short Course†, National School of Anthropology and History, Mexico City, MX. (*Cross-listed undergraduate/graduate*) [Course materials publicly available](#).
- 201 **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](#).
- 2016 **Instructor**, “Intro to Command Line” Training Workshop, School of Life Sciences, Arizona State University.

**Other teaching experience**

- 2009-2016 **K-12 Social Studies Tutor**, Tutor.com, Online Tutoring Service

**TRAINEES SUPERVISED**

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**Primary adviser – current trainees (University of Minnesota Twin Cities)**

- 2023- Jessica Stone, Postdoctoral Scholar, Department of Anthropology  
 2023- Emmanuel Kiprito Ngetich, PhD student, Department of Anthropology  
 2022- Miguel Contreras Sieck, PhD student, Department of Anthropology  
 2021- Laura N. Pott, PhD student, Department of Anthropology  
 2021- Jaime Zolik, PhD student, Department of Anthropology  
 2022- Margaret Hassler, Undergraduate student, Department of Anthropology

**Committee member – current trainees (University of Minnesota Twin Cities)**

- 2023- Madelaine Walker, PhD student, Department of Anthropology  
 2023- Penina Kadalida, PhD student, Department of Anthropology  
 2023- Yessica Berumen Martinez, PhD student, Department of Anthropology  
 2022- Alison Barkymer, PhD student, Microbiology, Immunology & Cancer Biology Program  
 2022- Tristan McNeal, PhD student, Microbiology, Immunology & Cancer Biology Program

**Committee member – current trainees (External)**

- 2021- Daniela Orozco Pérez, PhD student, National Laboratory Genomics for Biodiversity, MX  
 2021- Ram Gonzalez Buenfil, PhD student, National Laboratory Genomics for Biodiversity, MX

**Former trainees**

- 2022-2023 Emma Ulrich, Undergraduate student, Department of Anthropology, University of Minnesota  
 2019-2020 Daniela Orozco Pérez, Undergraduate student, Genomic Sciences, National Autonomous University of Mexico  
 2015-2017 Kathleen Fowler, Undergraduate student, School of Human Evolution & Social Change, Arizona State University

**PROFESSIONAL SERVICE**

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**Peer review**

- 2016- *Science*, *Molecular Biology and Evolution*, *Proceedings of the National Academy of Sciences (PNAS)*, *American Journal of Human Genetics*, *Genes*, *Plos One*, *Latin American Antiquity*,

*American Journal of Physical Anthropology, Evolutionary Anthropology, Human Biology, Frontiers in Genetics, Genome Biology and Evolution, Revista Argentina de Antropología Biológica*

**Grant review**

2023 Wenner-Gren Foundation  
2023 ERC grant review  
2022 United States-Israel Binational Science Foundation  
2021,2023 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**

2020-2022 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)**

2022-present Undergraduate committee member, Department of Anthropology  
2022-2023 Search committee member, Department of Ecology, Evolution and Behavior  
2021-2022 Graduate committee member, Department of Anthropology  
2021 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**

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2023 Active Lecturing In Person and Online, Center for Educational Innovation, University of Minnesota Twin Cities, Minneapolis, MN  
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, 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**

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### ***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

### ***Archaeological fieldwork and laboratory***

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

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- 2023 “[Ancient DNA on the 70th Anniversary of the Discovery of the DNA molecule](#)” interview by Leia Tilley for [Flipside](#) podcast, Episode 10.
- 2020 “[Expuesto el origen de los primeros pobladores](#)” by Kevin Alicea-Torres for [El Nuevo Día](#).
- 2020 “[Ancient DNA and Mofongo](#)” interview on [Sausage of Science Podcast](#), Episode 62.
- 2019 “[New research links ancient indigenous DNA to living Puerto Ricans](#)” [CBS News](#).
- 2019 “[How ancient DNA can help recast colonial history](#)” By Ed Yong for [The Atlantic](#).
- 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).

## **LANGUAGES**

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Spanish (Native Proficiency), English (Native Proficiency)

## **COMPUTATIONAL/STATISTICAL LANGUAGES**

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R, UNIX, Python

## PROFESSIONAL MEMBERSHIPS

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

## REFERENCES

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### **Anne C Stone, Professor**

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PMB #356050, Nashville, TN 37235-6050  
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Tel: 615-343-5373

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102E Merrick Hall, Coral Gables, FL 33124  
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Tel: 302-284-3761

### **Andrés Moreno-Estrada, Assistant Professor**

National Laboratory of Genomics for Biodiversity  
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Km 9.6 Libramiento Norte, Carretera Irapuato-Leon, Irapuato, GTO, Mexico C.P. 36821  
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