

Obed A. Garcia
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Nationality: United States and Guatemala

Education

- 2020 University of Michigan
Ph.D. in Anthropology
Committee: Abigail Bigham, Anthropology (co-chair), Jacinta Beehner, Anthropology (co-chair), John Kingston, Anthropology, Jun Li, Human Genetics
- 2015 University of Michigan
M.A. in Anthropology
- 2009 Oberlin College
B.A. in English and Jewish Studies; Minor in Religion

Professional Appointments

- 2020 Postdoctoral Fellow, Department of Biomedical Data Science, Stanford University School of Medicine
Mentor: Carlos D. Bustamante

Publications

- 2020 (*In preparation*) **Garcia OA**, Arslanian K, Whorf D, Shriver M, Bigham AW. Signatures of selection in Mesoamerican/Latin American immune response genes. Submitting to *Molecular Biology and Evolution*. Submitting September 2020.
- 2020 Werren EA, **Garcia OA**, Bigham AW. Identifying adaptive alleles in the human genome: from selection mapping to functional validation. *Human Genetics*, 1-36.
- 2016 Thompson, W and **Garcia, O**. The Perils of "Contact". *Tipiti: Journal of the Society for the Anthropology of Lowland South America*. Vol. 14: Iss. 1, Article 12, 145-146.
- 2014 Bhatt S, Mutharasan P, **Garcia OA**, Jafari N, Legro RS, Dunaif A, Urbanek M. The inflammatory gene pathway is not a major contributor to PCOS. *Journal of Clinical Endocrinology and Metabolism*. 99:E567-E571.
- 2013 Mutharasan P, Galdones E, Bernabe BP, **Garcia OA**, Jafari N, Shea ND, Woodruff TK, Legro RS, Dunaif A, Urbanek M. Fine Mapping of the Chromosome 2p16.3 Polycystic Ovary Syndrome Susceptibility Locus in Affected Women of European Ancestry. *Journal of Clinical Endocrinology and Metabolism*. 98: E185-E190.
- 2012 Goodarzi MO, Jones MR, Li X, Chua A, **Garcia OA**, Chen YDI, Krauss RM, Rotter JI, Ankener W, Legro RS, Azziz R, Strauss JF, Dunaif A, Urbanek M. Replication of association of DENND1A and THADA variants with polycystic ovary syndrome in European cohorts. *Journal of Medical Genetics*. 49 (2) : 90-5.

External Grants and Fellowships

- 2020 William S. Pollitzer Student Travel Award (February 2020) (\$500)
American Association of Physical Anthropology
- 2018 Doctoral Dissertation Research Improvement Grant (co-PI: \$31,200--\$20,000
direct/\$11,200 indirect)
The National Science Foundation
- 2016 Dissertation Fieldwork Grant (\$19,959)
The Wenner-Gren Foundation

Internal Grants and Fellowships

- 2020 Rackham Conference Travel Grant for AAPA meeting (April 2020) (\$800)
Rackham Graduate School, University of Michigan
- 2018 Rackham Conference Travel Grant for AAPA meeting (April 2018) (\$800)
Rackham Graduate School, University of Michigan
- 2016 Rackham International Research Award (\$8000)
International Institute, University of Michigan
- 2015 Tinker Foundation Field Research Grants (\$1200)
Department of Latin American Studies, University of Michigan
- 2014 Rackham Conference Travel Grant for ASHG meeting (Oct 2014) (\$800)
Rackham Graduate School, University of Michigan
- 2014 Rackham Graduate Student Research Grant (\$1500)
Rackham Graduate School, University of Michigan
- 2014 Rackham Conference Travel Grant for AAPA meeting (April 2014) (\$950)
Rackham Graduate School, University of Michigan

Invited Talks

- 2019 Evolutionary Anthropology: Using signatures of natural selection to study
Dengue (*Keynote speech for invited event*)
November 12, 2019 at the Society of Medical Infectologists of Guatemala

Awards and Honors

- 2020 Rackham One-Term Dissertation Fellowship (\$10,890 Stipend+Tuition)
Rackham Graduate School, University of Michigan
- 2019 Block Grant Write-Up Fellowship (\$10,541.19 Stipend+Tuition)
Anthropology, University of Michigan
- 2018 Outstanding Graduate Student Instructor Award (\$200)
Anthropology, University of Michigan

- 2018 Marshall Weinberg Dissertation Fellowship (\$9845 Stipend +Tuition)
Anthropology, University of Michigan
- 2014 Outstanding Graduate Student Instructor Award (\$200)
Anthropology, University of Michigan
- 2014 Honorable Mention (alternate)
Ford Fellowship Foundation
- 2013 Honorable Mention
Ford Fellowship Foundation
- 2012 Finalist for the Lewis Landsberg Research Day
Feinberg School of Medicine, Northwestern University
- 2012-2013, 2015-2017 Rackham Merit Fellowship (\$9,869 per 6 terms stipend +tuition)
Rackham Graduate School, University of Michigan

Conference Abstracts

- 2020 **Garcia OA**, Castillo-Signor L, Capetillo S, Santos EM, Nuñez N, Villatoro V, Bigham AW. Leveraging signatures of selection for susceptibility and resistance to Dengue Infection in a Guatemalan cohort. Accepted for the American Association of Physical Anthropology meeting 2020 in Los Angeles, California. *Podium Presentation.*
- 2018 **Garcia OA**, Arslanian K, Whorf D, Thariath SA, Shriver M, Bigham AW. Selection mapping to identify Flavivirus response loci in the Americas. Presented at the American Association of Physical Anthropology meeting 2018 in Austin, Texas. *Invited poster session.*
- 2016 Reynolds A, **Garcia OA**, Mata-Miguez J, Bigham AW, Bolnick DA. Investigating Genome-wide Signals of Natural Selection in Central Mexico. Presented at the 66th Annual Meeting of The American Society of Human Genetics, Atlanta, GA. *Poster.*
- 2014 **Garcia OA**, Arslanian K, Whorf D, Shriver M, Moore LG, Brutsaert T, Bigham AW. Positive selection in smallpox associated genes among Mesoamericans; (1982 M). Presenting at the 64th Annual Meeting of The American Society of Human Genetics, October 20, 2014, San Diego, CA. *Poster.*
- 2014 **Garcia OA**, Arslanian K, Whorf D, Shriver M, Moore LG, Brutsaert T, Bigham AW. Signatures of selection in immune response genes among Native Latin American populations. Presented at the American Association of Physical Anthropology meeting 2014 in Calgary, Canada. *Poster.*
- 2013 Urbanek M, **Garcia O**, Woodruff T, Legro R, Dunaif A, Mutharasan P. Candidate pathway genetic analysis of PCOS. Endocrine Abstracts 29:P935. *Poster.*
- 2012 **Garcia OA**, Mutharasan P, Legro RS, Dunaif A, Urbanek M. Novel *FTO* locus associated with polycystic ovary syndrome; (1435 W). Presented at the 12th

International Congress of Human Genetics/61st Annual Meeting of The American Society of Human Genetics, October 12, 2011, Montreal, Canada.
Poster.

- 2011 Ackerman CM, **Garcia OA**, Legro RS, Dunaif A, Urbanek M. *SHBG* (TAAAA)_n is associated with serum SHBG in a PCOS case-control cohort. *Endocrine Reviews* 32: P2-66. *Poster.*
- 2011 Mutharasan P, Galdones E, Bernabe BP, **Garcia OA**, Legro RS, Dunaif A, Shea LD, Woodruff TK, Urbanek M. Evidence for Association of chromosome 2p16.3 polycystic ovary syndrome (PCOS) Susceptibility Locus in Affected Women of European Ancestry. *Endocrine Reviews* 32: P1-301. *Poster.*
- 2011 Mutharasan P, Galdones E, Bernabe BP, **Garcia OA**, Legro RS, Dunaif A, Shea LD, Woodruff TK, Urbanek M. Genes Regulated by Ovarian Rigidity are Associated with PCOS. *Endocrine Reviews* 32: OR21-1. *Podium.*
- 2009 Chen J, **Garcia O**, Donnelly H, Waterer GW, Wunderink, RG. Tigecycline Increases IL-8 response to gram positive stimuli. *American Journal of Respiratory Critical Care Medicine* 179:A5957. *Poster.*

Teaching Experience

- 2019 **Instructor** (Instructor of Record)
Anthropology, University of Michigan
Genetic History of Latin American (Spring 2019: lower level)
- 2013-15, 2018-19 **Graduate Student Instructor**
Anthropology, University of Michigan
Molecular Anthropology (Winter 2018/Winter 2019: upper level)
Nutrition and Evolution (Winter 2015: upper level)
Genes, Disease, and Culture (Fall 2014: upper level)
Nature/Culture Now! (Winter 2014: upper level)
Primate Social Behavior (Fall 2013: upper level, upper level writing proficiency)
- 2009-2012 **Faculty**
Dorothy Stang Popular Education Adult High School, Chicago
Mathematics (pre-Algebra and basic Algebra)

Research Experience

- 2013 Graduate Student Research Assistant (Spring/Summer)
Anthropology, University of Michigan
- 2009-2012 Research Technician
Endocrinology, Northwestern University
- 2008 Summer Intern
Pulmonary and Critical Care Medicine, Northwestern University
- 2008 Winter Intern
Sleep and Circadian Rhythms, Northwestern University

2004 Summer Intern
Pulmonary and Critical Care Medicine, Northwestern University

Field Experience

2018-2019 Dissertation Research: Genetic susceptibility/resistance to Dengue-infection in Guatemala
Anthropology, University of Michigan

2015 Research Staff/Instructor: Biological Variation Fieldwork in Palenque, Mexico (March, June-July)
Anthropology, University of Michigan

2013 Research Staff: High Altitude Fieldwork in Cerro de Pasco, Peru (July-August)
Anthropology, University of Michigan

Departmental and University Service

Judge, Senior Honors Thesis Posters, Anthropology, University of Michigan (2014,2015,2019)
Panelist, Anthropology Club, University of Michigan (2018)
Panelist, Senior Honors Thesis Session, Anthropology, University of Michigan (2015)
Organizer, Four Field Grad Talks, Michigan Anthropology Graduate Association (2012-2013)

Community Service

Treasurer, Oberlin Latino Alumni Association (2014-2017)
Abstract Reviewer for Undergraduate Research Symposium, AAPA (2014-2016)
Member and Panelist of Student Committee, AAPA (2014-2015)
Class Agent, Oberlin Alumni Fund (2009-Present)
Webmaster, American Association of Anthropological Genetics (2019-present)
Tutor, America Counts, Elementary School Mathematics (2008-2009)
Tutor, Oberlin College, Calculus (2005-2006)
Tutor, Bethesda After-School Program, English, Science, and Mathematics (2003-2004)

Languages

Spanish (Native Fluency)
Classical Latin (Excellent)
Hebrew (Excellent)
Attic Greek (Proficient)

Professional Memberships

American Association of Anthropological Genetics (2014-Present)
American Association of Physical Anthropology (2014-Present)
The American Society of Human Genetics (2011-Present)