


# Andrés G. Mejía Ramón

13 June 1994 — Miguel Hidalgo, Mexico City, México  
312 Carpenter Building, The Pennsylvania State University, University Park, Pennsylvania 16802  
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## Education & Certifications

Ph.D	<b>Pennsylvania State University</b> , University Park, Pennsylvania <i>Anthropology</i>	<b>2018 - Present</b>
M.A.	<b>Pennsylvania State University</b> , University Park, Pennsylvania <i>Anthropology</i>	<b>2016 - 2018</b>
A.B.	<b>Dartmouth College</b> , Hanover, New Hampshire <i>Physics, and Anthropology with High Honors</i>	<b>2012 - 2016</b>
sUAS	<b>United States:</b> FAA Part 107 <i>License #4203884</i>	<b>Nov. 27, 2018</b>

## Peer-Reviewed Publications

**Mejía Ramón, Andrés G.** and Nadia E. Johnson.

**2019** Sociopolitical Organization, Landscape Change, and Hydraulic Engineering in the Teotihuacan Valley, Mexico: 1250 B. C. – A. D. 1810. *Wiley Interdisciplinary Reviews (WIREs): Water* **6**(2): e1335, <https://doi.org/10.1002/wat2.1335>.

**Mejía Ramón, Andrés G.**, Luis Barba, Agustín Ortiz Butrón, and Jorge E. Blancas Vázquez.

**2019** Geophysical Prospection at the Formative Site of Altica in the Teotihuacan Valley Piedmont. *Ancient Mesoamerica* **30**(2): 267-278, <https://doi.org/10.1017/S0956536118000378>.

Blancas Vázquez, Jorge E., Luis Barba, Agustín Ortiz Butrón, Guillermo Acosta Ochoa, **Andrés G. Mejía Ramón**, and David M. Carballo.

**2019** Estudio de Conjuntos Departamentales y Organización de Barrios Utilizando Sensores Remotos y Geofísica en el Distrito de Tlajinga, Teotihuacan. *Ancient Mesoamerica* **30**(1): 115-128, <https://doi.org/10.1017/S0956536118000470>.

Carballo, David M., Kenneth G. Hirth, Daniela Hernández Sariñana, Gina M. Buckley, **Andrés G. Mejía Ramón**, and Douglas Kennett.

**2019** New Research at Teotihuacan's Tlajinga District: The 2013-2014 Excavations. *Ancient Mesoamerica* **30**(1): 95-113, <https://doi.org/10.1017/S0956536118000159>.

Munson, Jessica L., **Andrés G. Mejía Ramón**, and Lorena Paiz Aragón.

**2019** Mapeo de Asentamientos en Alta Resolución con Sistemas Aéreos No Tripulados en Altar de Sacrificios, Guatemala. In *XXXII Simposio de Investigaciones Arqueológicas en Guatemala, Tomo II*, edited by Barbara Arroyo, Luis Méndez Salinas, and Gloria Ajú Álvarez, pp. 637-648. Museo Nacional de Arqueología y Etnología, Guatemala City, <https://doi.org/10.26207/5xhm-9009>.

**Mejía Ramón, Andrés G.**

**2017** Playing in Tlaloc's Fields: Trends in archaeometric prospection in the Central Mexican Highlands. *Society of Exploration Geophysicists Technical Program Expanded Abstracts* **2017**(1): 5110-5114, <https://doi.org/10.1190/segam2017-17559571.1>.

**Mejía Ramón, Andrés G.** and Christian L. John.

**under rev.** High-Resolution Photogrammetry at Teotihuacan, Mexico: Production and Potential of a Novel Multispectral and Topographic Dataset. Available upon request.

**Mejía Ramón, Andrés G.**, Jessica L. Munson, and Lorena Paiz Aragón.

**under rev.** A False Sense of Innocence: Geospatial Archaeology and its Ethical Considerations. Available upon request.

## Research Experience

**R – Remote Sensing; G – Geophysics; S – Survey; E – Excavation; A - Analysis**

**Principal Investigator**, Proyecto La Paleohidrología del Valle de Teotihuacan, México  
Permits #403.B(4)19.2016/36/0761, and 401.1S.3-2017/1360

R, G, S, E, A

**Spring 2013 - Present**

**Remote Sensing Specialist**, Northern Basin of Mexico Historical Ecology Project, México  
Christopher T. Morehart, *Arizona State University*

R, G, E

**Summer 2016 - Present**

**Remote Sensing Specialist**, Proyecto Arqueológico Altar de Sacrificios, México and Guatemala  
Jessica Munson, *Lycoming College*

R, S

**Winter 2016 - Present**

**Remote Sensing Specialist**, Proyecto Prehistórico Arenal/Proyecto La Chiripa, Costa Rica  
Payson D. Sheets, *University of Colorado, Boulder*  
Venicia Slotten, *University of California, Berkeley*

R, G, S, E

**Summer 2018 - Present**

**Investigator**, Proyecto Altica, México  
Wesley Stoner, *University of Arkansas*  
Deborah L. Nichols, *Dartmouth College*

R, G, S, E, A (ceramics)

**Summer 2014 - Winter 2017**

**Investigator**, Proyecto Arqueológico Tlajinga Teotihuacan, México  
 David Carballo, *Boston University*  
 Luis Barba, *Universidad Nacional Autónoma de México*  
 Kenneth G. Hirth, *Pennsylvania State University*  
 R, G, E, A (shell) **Summer 2013 - Spring 2017**

**Geophysical Investigator**, Proyecto Plaza de las Columnas, Teotihuacan, México  
 David M. Carballo, *Boston University*  
 Verónica Ortega Cabrera, *Zona Arqueológica de Teotihuacan*  
 Saburo Sugiyama, *Aichi Prefectural University*  
 Nawa Sugiyama, *George Mason University*  
 William Fash, *Harvard University*  
G **Summer 2015**

**Academic Honors, Grants, and Scholarships (in USD\$)**

**NASA Space Grant Graduate Fellowship** **\$5,000**  
 National Aeronautics and Space Administration & Pennsylvania Space Grant **Summer 2017**

**Honorable Mention, NSF Graduate Research Fellowship Program**  
 National Science Foundation **Spring 2017**

**University Graduate Fellowship** **\$46,740/year**  
 Department of Anthropology, Pennsylvania State University **Autumn 2016**

**International Symposium on the Sociopolitical Organization of Teotihuacan** **\$1,200**  
 Department of Anthropology, Pennsylvania State University **Autumn 2016**

**Various Awards and Grants** **\$6,700**  
 Pennsylvania State University **Spring 2017 - 2019**

**Various Awards and Grants** **\$5,870**  
 Dartmouth College **Spring 2013 - 2016**

**Stamps Family Leadership Scholar Award** **\$20,000**  
 Stamps Family Charitable Foundation, Atlanta, Georgia **Summer 2014**

**Western Teotihuacan Valley Imagery Grant**  
 With Deborah L. Nichols and Jason T. Herrmann **Valued at \$5,000**  
 DigitalGlobe Foundation, Longmont, Colorado **Spring 2014**

**Central Teotihuacan Valley Imagery Grant**  
 With Jason T. Herrmann **Valued at \$5,000**  
 DigitalGlobe Foundation, Longmont, Colorado **Spring 2013**

**Outstanding Musicianship**  
 University of Massachusetts Amherst Honor Band **Winter 2012**

## Citations for Meritorious Performance in Undergraduate Courses

<i>Anthropology 21: The Aztecs</i> , Dr. Deborah L. Nichols	Winter 2013
<i>Anthropology 12.2: Archaeology of the Ancient Near East</i> , Dr. Daniel T. Potts	Spring 2014
<i>Anthropology 50.5: Environmental Archaeology</i> , Dr. Jason T. Herrmann	Spring 2014
<i>Earth Sciences 77: Environmental Applications of GIS</i> , Dr. James Dietrich	Winter 2016

## Technical Reports

### Mejía Ramón, Andrés G.

**2020** La Prospección Fotogramétrica Fluvial y Aérea. In *Informe del Proyecto Geomorfológico de Asentamientos Antiguos del Usumacinta Superior, Temporada de 2019: Investigando la historia fluvial y los patrones de asentamiento de Altar de Sacrificios y sus alrededores*, Jessica L. Munson y Lorena Paiz Aragón, eds., pp. 12-35. Final Report Submitted to the Consejo de Arqueología, Instituto Nacional de Antropología e Historia, Ciudad de México

Munson, Jessica L., Lorena Paiz Aragón, **Andrés G. Mejía Ramón**, and Jill Onken.

**2020** Introducción. In *Informe del Proyecto Geomorfológico de Asentamientos Antiguos del Usumacinta Superior, Temporada de 2019: Investigando la historia fluvial y los patrones de asentamiento de Altar de Sacrificios y sus alrededores*, Jessica L. Munson y Lorena Paiz Aragón, eds., pp. 4-11. Final Report Submitted to the Consejo de Arqueología, Instituto Nacional de Antropología e Historia, Ciudad de México

### Mejía Ramón, Andrés G.

**2018** La Prospección y Teledetección Topográfica y Multiespectral. In *Informe Técnico del Proyecto Arqueológico Altar de Sacrificios, Tercera Temporada 2018*, Lorena Paiz Aragón, ed., 28 pp. Final Report Submitted to the Departamento de Monumentos Prehispánicos y Coloniales, Instituto de Antropología e Historia, Guatemala City.

**Mejía Ramón, Andrés G.** and Christian L. John.

**2018** La Geofísica y Teledetección. In *Informe Técnico del Proyecto de Ecología Histórica del Norte del Valle de México, Tercera Temporada, 2017*, Christopher Morehart, ed. pp. 57-106. Final Report to the Consejo de Arqueología, Instituto Nacional de Antropología e Historia, Ciudad de México

### Mejía Ramón, Andrés G.

**2017** La Prospección y Teledetección. In *Informe Técnico del Proyecto Arqueológico Altar de Sacrificios, Segunda Temporada 2017*, Lorena Paiz Aragón y Jessica Munson, eds. pp. 13-36. Final report submitted to the Departamento de Monumentos Prehispánicos y Coloniales, Instituto de Antropología e Historia, Guatemala City.

**Mejía Ramón, Andrés G.** and Christian L. John.

**2017** *Informe Preliminar del Recorrido Aéreo sobre la Zona Monumental Arqueológica de Teotihuacán del Proyecto La Paleohidrología del Valle de Teotihuacán*, Preliminary report to the Consejo de Arqueología y la Zona Monumental Arqueológica de Teotihuacán, Instituto Nacional de Antropología e Historia, México D.F. and San Juan Teotihuacán, México.

### Mejía Ramón, Andrés G.

**2017** *Informe Preliminar de la temporada 2016-2017 y Propuesta Metodológica del Proyecto La Paleohidrología del Valle de Teotihuacán*. Report submitted to the Consejo de Arqueología, Instituto Nacional de Antropología e Historia, México D.F.

Cesaretti, Rudolph, **Andrés G. Mejía Ramón**, and Christopher T. Morehart.

**2017** Las Excavaciones de la Operación V. En *Informe Técnico del Proyecto de Ecología Histórica del Norte del Valle de México, Segunda Temporada, 2016*. Final report to the Consejo de Arqueología, Christopher Morehart, ed. Instituto Nacional de Antropología e Historia, México D.F.

**Mejía Ramón, Andrés G.**

**2016** *The Paleohydrology of the Teotihuacan Valley: A Multimethod Approach in the Prospection of Subsurface Hydraulic Features in the Teotihuacán Valley, Mexico*. Honors A.B. Thesis, Departamento de Antropología, Hanover, New Hampshire.

**Mejía Ramón, Andrés G.**, Clara Paz Bautista, and David M. Caraballo.

**2014** La Concha. In *Informe Técnico del Proyecto Arqueológico Tlajinga Teotihuacan: Segunda Temporada, 2013*. Final report to the Consejo de Arqueología Instituto Nacional de Antropología e Historia, México D.F.

Carballo, David M., Daniela Hernández Sariñana, and **Andrés G. Mejía Ramón**.

**2014** Las Excavaciones. In *Informe Técnico del Proyecto Arqueológico Tlajinga Teotihuacan: Segunda Temporada, 2013*. Final report to the Consejo de Arqueología, Instituto Nacional de Antropología e Historia, México D.F.

## Presentations

**Mejía Ramón, Andrés G.**

**2019** Métodos Multiescalares de Prospección Arqueológica Aérea: Los Recorridos por dron de Altar de Sacrificios, Petén y Teotihuacan, Estado de México. Paper presented at the *XXXIII Simposio de Investigaciones Arqueológicas en Guatemala*, Guatemala City.

**Mejía Ramón, Andrés G.**

**2019** High Resolution Multispectral Photogrammetry in Theory and Practice. Paper presented at the 84<sup>th</sup> Annual Meeting of the Society for American Archaeology, Albuquerque, New Mexico.

**Mejía Ramón, Andrés G.**

**2019** Discussant at the Maya Water Management Lightning-Round session at the 84<sup>th</sup> Annual Meeting of the Society for American Archaeology, Albuquerque, New Mexico.

Munson, Jessica L. and **Andrés G. Mejía Ramón**, and Lorena Paiz Aragón.

**2019** New Methods of Mound Detection in the Maya Lowlands: UAV Survey and Settlement Mapping at Altar de Sacrificios, Petén, Guatemala. Poster presented at the 84<sup>th</sup> Annual Meeting of the Society for American Archaeology, Albuquerque, New Mexico.

Villaseñor, Eunice, Christopher T. Morehart and **Andrés G. Mejía Ramón**.

**2019** The Distribution and Characterization of Agricultural Terraces on Cerro de la Mesa Ahumada, Mexico. Poster presented at the 84<sup>th</sup> Annual Meeting of the Society for American Archaeology, Albuquerque, New Mexico.

Munson, Jessica L. and **Andrés G. Mejía Ramón**.

**2018** Mapeo de Asentamientos en Alta Resolución con Sistemas Aéreos No Tripulados en Altar de Sacrificios, Guatemala. Paper presented at the “*Tecnología Aplicada en la Arqueología*” symposium of the *XXXII Simposio de Investigaciones Arqueológicas en Guatemala*, Guatemala City.

**Mejía Ramón, Andrés G.**, Christian L. John, Jessica L. Munson, and Christopher T. Morehart.

**2018** Repurposing Scale in Three Mesoamerican Centers: Landscape Archaeology and High Resolution 3D Modeling at Teotihuacan, Altar de Sacrificios, and Los Mogotes. Interactive presentation in the “*A Beer in the Hand is better with an Oculus Rift on the Face*” symposium of the 83<sup>rd</sup> Annual Meeting of the Society for American Archaeology, Washington D.C.

**Mejía Ramón, Andrés G.**

**2017** Playing in Tlaloc’s Fields: Trends in Archaeometric Prospection in the Central Mexican Highlands. Paper presented at the “*Near Surface Geophysics for Archaeological Research*” symposium of the 83<sup>rd</sup> Annual Meeting of the Society for Exploration Geophysics, Houston, Texas.

**Mejía Ramón, Andrés G.**

**2017** Tools from the Toybox: Remote Sensing and the Evolution of Complex Societies in Mesoamerica. Part of the Department of Sociology and Anthropology Colloquium Series, Lycoming College, Williamsport, Pennsylvania.

**Mejía Ramón, Andrés G.**, Lucy Harbor, Chloe McGuire, Stephen Mainzer, Amelia Blenderman, Lauren Mullenbach, and Heather Costigan.

**2017** Monitoring the Ecological Impacts of the 2017 Centred Outdoors Challenge: Remote Sensing and Secondary Data Collection. Poster presented at the Centre County, Pennsylvania Municipal Expo, Borough of State College.

**Mejía Ramón, Andrés G.** and Luis Barba.

**2017** Of Mud and Magnets: Archaeometric Prospection at the Site of Altica. Paper presented at the “*Altica: The Millenium before Teotihuacan*” symposium of the 82<sup>nd</sup> Annual Meeting of the Society for American Archaeology, Vancouver, British Columbia.

**Mejía Ramón, Andrés G.**, Luis Barba, Deborah L. Nichols, and Sergio Gómez Chávez.

**2016** Watering Tlaloc’s Gardens: Ancient Irrigation in the Teotihuacan Valley. Paper presented at the “*Teotihuacan Through the Ages*” symposium of the 81<sup>st</sup> Annual Meeting of the Society for American Archaeology, Orlando, Florida.

**Mejía Ramón, Andrés G.**, and Claudia E. Revenko-Bowen.

**2016** A Kilometer in their Shoes: The Importance of Respect in Cross-Cultural Research. Paper at the “Student Forum on Global Learning” Dartmouth Center for the Advancement of Learning, January 18, 2016. Hanover, New Hampshire.

**Mejía Ramón, Andrés G.**, and Jorge E. Blánicas Vázquez.

**2014** Identifying Linear Prehispanic Features through Comparative Multispectral Imagery Analysis, Teotihuacan, Mexico. Poster presented at the Digital Domains conference, Dartmouth College, 20-22 March 2014. Hanover, New Hampshire.

## **Employment**

**Ph.D. Student/Graduate Instructor**, Department of Anthropology, Pennsylvania State University  
*University Park, PA* **Autumn 2016 - Present**

**Translator**, Independent

*Articles, reports, and theses submitted to the governments of Mexico, United States, Costa Rica, El Salvador, and Honduras.*

*Various*

**Autumn 2013 - Present**

**Student Instructor**, Department of Spanish and Portuguese, Dartmouth College

*Hanover, NH*

**Autumn 2012 - Spring 2016**

**Research Assistant**, Department of Anthropology, Dartmouth College

*Hanover, NH*

**Autumn 2013 - Spring 2016**

**Editorial Assistant**, Department of Anthropology, Dartmouth College

*Hanover, NH*

**Autumn 2013 - Spring 2016**

### **Academic Service**

**Organizer**, Roundtable discussion on the Ethics of Mapping and Geospatial Archaeology, 2020 Annual Meeting of the American Anthropological Association

With Jessica L. Munson

**Cancelled due to COVID-19**

**Organizer**, International Symposium on the Sociopolitical Organization of Teotihuacan

With Linda R. Manzanilla, Tom Froese, and Gina M. Buckley

**January 2017**

**President**, East Longmeadow High School Class of 2012

**June 2010 - Present**

### **Miscellaneous Skills**

**Languages:** Spanish (fluent), English (fluent), French (Reading).

**Citizenship:** Mexico; United States.

**Software:** Microsoft Office, Adobe Illustrator, ESRI ArcGIS, GRASS GIS, Wolfram Mathematica, ERDAS Imagine, Agisoft Metashape Professional, Meshlab, Blender, GPyR, GeoDa, Map Pilot, Oxcap.

**Coding Languages:** Python (inc. pandas, numpy, scikit-learn, matplotlib, igraph, GDAL, keras), R (inc. ggplot2, baydem, rcarbon, raster, adehabitat, dils, igraph, rgdal), L<sup>A</sup>T<sub>E</sub>X.

**Methods of Excavation:** Domestic Archaeology; Monumental Archaeology; Bedrock-Incised Archaeology, Hydraulic Features; Ephemeral Structures.

**Methods of Remote Sensing:** Near-Surface Geophysics (Magnetometry, Ground Penetrating Radar, Electric Resistivity); Multispectral and RGB Image Processing (Unmanned Aerial System- and Satellite-based); Elevation and Vegetation Point Clouds (Structure-from-Motion Photogrammetry- and Lidar-based).

**Academic Interests:** Landscape Archaeology; Early-Middle Formative Mesoamerica; Teotihuacan; Sierra de las Cruces; Paleohydrology and Water Management; Historical Ecology; Grass Ecology; Movement Ecology; Computational and Mathematical Modeling.

**Classes Taught:** Spanish I, II, and III—Grammar and Pronunciation (Dartmouth); Indigenous North America (Penn State); Introduction to North American Archaeology (Penn State).