

# Alex Elvis Badillo, Ph.D.

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## EDUCATION

- 2019 Ph.D. Anthropology. Indiana University, Bloomington, IN  
Concentration: Archaeology in the Social Context  
Minors: Sociocultural Anthropology, Latin American and Caribbean Studies  
Certificate: Digital Arts and Humanities
- 2013 M.A. Anthropology. Indiana University, Bloomington, IN
- 2005 B.A. Anthropology and Spanish. Radford University, Radford, VA

## ACADEMIC POSITIONS

- Indiana State University** (Terre Haute, IN)  
Assistant Professor, Department of Earth and Environmental Systems 2018 – present
- Indiana University and Purdue University, Indianapolis** (Indianapolis, IN)  
Future Faculty Fellow, Department of Anthropology 2017 – 2018
- Indiana University, Bloomington** (Bloomington, IN)  
Associate Instructor, Department of Anthropology 2011 – 2017
- Christchurch School** (Christchurch, VA) 2006 – 2010  
Instructor, Department of Foreign Languages

## LABORATORIES

- 2019 **Co-founder, Co-Designer, Co-director, Sycamore Collaborative Visualization Classroom and Makerspace**  
January 2019 – Present  
Description: In early 2019, Stephen Aldrich and Alex Badillo, were awarded an internal grant from ISU to renovate a classroom in room 158 of the Science Building on ISU's campus. Aldrich and Badillo worked to convert the classroom into a state-of-the-art visualization classroom and makerspace that had equipment to facilitate experiential learning for students interested in pursuing a career in the geospatial sciences, data science, digital humanities, archaeology, and other related disciplines and industries. The room can hold classes of up to 24 students and contains equipment such as a large format high-definition video wall, virtual reality headsets, high-performance computers for 3D modeling, data processing, VR/AR development, 3D printing, laser cutting, high-precision UAV (drone) mapping, and other GPS and 3D scanning technologies including LiDAR.

2018 **Founder and Director, Geospatial and Virtual Archaeology Laboratory and Studio (GVALS)**

October 2018 - Present

Description: In October 2018, this brand new lab was established by Badillo in the Department of Earth and Environmental Systems at Indiana State University. This lab is focused on teaching and research pertaining to the creation and analysis of geospatial data and 3D digital reconstructions of objects at various scales such as artifacts, architecture, and landscapes for preservation and scientific use.

(<https://alexelvisbadillo.weebly.com/gvals.html>, <https://sketchfab.com/GVALS>).

**PUBLICATIONS**

Levine, Marc N., Scott W. Hammerstadt, Amanda Regnier, Alex Elvis Badillo. **In press.** *Monte Alban's Hidden Past: Buried Building and Sociopolitical Transformation*. Latin American Antiquity.

Badillo, Alex Elvis, Josh Myers, and Ryan Peterson. 2020. *SfM Photogrammetric Field Methods for Historic Burial Excavations: The Case of Bethel Cemetery*. *Advances in Archaeological Practice* 8(2):151-161.

Badillo, Alex Elvis. 2017. *Narraciones de Quiechapa: Considerando la Evidencia Material del Recorrido Sistemático*. *Cuadernos del Sur* 22(42):35-54.

King, Stacie M., Elizabeth Konwest, Andrew Workinger, Alex Elvis Badillo and Juan Jarquín Enríquez. 2014. *Más que conquista: un cuento de dos fortalezas en la región de Nejapa*. *Cuadernos del Sur* 19(36):21-41.

**DISSERTATION**

Badillo, Alex Elvis. 2019. *Doctoral Dissertation: Ancient Settlement Patterns and Land-use Dynamics in Rural Quiechapa, Oaxaca, Mexico*, defense January 18<sup>th</sup> 2019, completed March 2019.

**PUBLICATIONS IN PROCESS**

Badillo, Alex Elvis. *Arqueología Pública en Quiechapa, Oaxaca, México: Estrategias de Comunicación y Vinculación de Investigaciones Arqueológicas con Comunidades Descendientes*. **Manuscript completed.**

Badillo, Alex Elvis. *Quiechapa: A Window into the settlement history of the Sierra Sur*. Latin American Antiquity. **Draft written.**

Badillo, Alex Elvis. *Ritual bloodletting, fertility, and life: 3D ballcourt representations of Quiechapa, Mexico*. **Currently writing.**

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Badillo, Alex Elvis and Stephen Aldrich. *A comparative study of UAV and terrestrial mapping methods for generating digital elevation models*. Data collection in process.

Badillo, Alex Elvis and Fernando Barriga. *Quiéchapa alias Yspustepeque: Obscured by orthography*. Ethnohistory. Transcriptions in process.

Badillo, Alex Elvis and Lindsey M. Kitchell. *3D printing and archaeological survey: The advantages of tactile visualization*. Data collected and processed, paper outlined.

Badillo, Alex Elvis and Marc N. Levine. *UAV mapping at Monte Albán: Methods, processing, and products*. **Draft written in English and Spanish.**

Badillo, Alex Elvis, Abraham Seare, Maria Cecilia Lozaga, Danny Zborover, and Vanessa Muros. *Rethinking methods of regional archaeological survey: UAV mapping and pedestrian survey of the Ocoña and Chorunga river valleys, Arequipa, Peru*. **Draft written.**

Levine, Marc N., Alex Elvis Badillo. *Monte Albán's Plazas: A Spatial and Sensory Analysis of Ritual Practices through Sight and Sound*. **Currently writing.**

Singh, Adam and Alex Elvis Badillo. *Late Colonial period lienzo of San Pedro Mártir Quiéchapa, Sierra Sur, Oaxaca, Mexico*. Ethnohistory. **First draft complete.**

#### **ARCHAEOLOGICAL FIELD REPORTS**

2020 Alex Elvis Badillo, Aaron M. Estes, and Ryan Peterson. Chapter 4: SfM Photogrammetry and 3D documentation. In *You Who Were Young Twice and Twice Received A Tomb: The Bethel Cemetery Relocation Project*, edited by Drew, Brooke L. and Ryan J. Peterson. Final Report for the Bethel Cemetery Relocation Project. Submitted to Indianapolis Airport Authority, Project No. J175304800. Copies available from Indiana Department of National Resources, Division of Historic Preservation & Archaeology, Indianapolis.

2019 Marc N. Levine, contributions by Alex Elvis Badillo, Scott Hammerstedt, Amanda Regnier. *Informe Técnico Final: El Proyecto Geofísico de Monte Albán, Temporada 2017*. University of Oklahoma. Final report submitted to the Instituto Nacional de Antropología e Historia. Pp. 118.

2017 Badillo, Alex Elvis and Aaron M. Estes. *Informe Final: El Proyecto Arqueológico de Quiéchapa, Temporada 2016*. Indiana University. Final report submitted to the Instituto Nacional de Antropología e Historia. Pp. 362.

2016 Alex Elvis Badillo and Aaron M. Estes. *Los registros de los sitios del Proyecto Arqueológico de Quiéchapa*. Final report submitted to the Consejo de Arqueología, Registro Público de Monumentos y Zonas Arqueológicas, y el Centro INAH Oaxaca del Instituto Nacional de Antropología e Historia; 2016. Pp. 554.

- 2014 King, Stacie M., Alex Elvis Badillo, Elizabeth R. Konwest, and Juan Jarquín Enríquez. *Informe Final Vol. I: Proyecto Arqueológico Nejapa/Tavela, Temporada III, 2013*. Indiana University. Pp. 179.
- 2014 Stacie M. King, Alex Elvis Badillo, and Elizabeth R. Konwest. *Los registros de los sitios del Proyecto Arqueológico Nejapa/Tavela, Temporada III, 2013. Final report submitted to the Consejo de Arqueología, Registro Público de Monumentos y Zonas Arqueológicas, y el Centro INAH Oaxaca del Instituto Nacional de Antropología e Historia*. Pp. 368.
- 2012 King, Stacie M., Elizabeth R. Konwest and Alex Elvis Badillo. *Informe Final: Proyecto Arqueológico Nejapa/Tavela, Temporada II, 2011*. Indiana University. Pp. 365.
- 2012 Stacie M. King, Alex Elvis Badillo, and Elizabeth R. Konwest. *Los registros de los sitios del Proyecto Arqueológico Nejapa/Tavela, Temporada II, 2011. Final report submitted to the Consejo de Arqueología, Registro Público de Monumentos y Zonas Arqueológicas, y el Centro INAH Oaxaca del Instituto Nacional de Antropología e Historia*. Pp. 436.

#### **FUNDING, AWARDS, AND HONORS**

- 2020 Preservation Technology and Training Grants, National Park Service, Submitted and under review.
- 2020 Digital Humanities Advancement grant, National Endowment for the Humanities, Submitted and not funded.
- 2019 Indiana State University's "Think Big" facilities and equipment grant: \$99,468.
- 2019 IndianaView Grant Program 2019: \$1,500.
- 2018 Indiana State University's Experiential Learning and Community Engagement Grant: \$2,995.
- 2018 Pre-Doctoral Fellow, Department of Earth and Environmental Systems at Indiana State University.
- 2018 Honorable mention for Ford Foundation Dissertation Fellowship.
- 2017 Future Faculty Teaching Fellowship, Indiana University-Purdue University, Indianapolis.
- 2017 Honorable mention for Ford Foundation Dissertation Fellowship.
- 2016 President's Diversity Dissertation Fellowship, Indiana University.
- 2016 College of Arts and Sciences Dissertation Fellowship, Indiana University, Declined.
- 2015 Doctoral Dissertation Research Improvement Grant, National Science Foundation: \$21,788.
- 2014 Associate Instructor of the Year Award, Outstanding Faculty-led Course Instructor: \$500.
- 2014 Graduate Sustainability Research Development Grant, Office of sustainability, Indiana University: \$2,500.
- 2014 College of Arts and Humanities Institute research award, Indiana University: \$1000.
- 2014 Latin American Fellowship, Office of the Vice President of International Affairs, Indiana University: \$1,500.
- 2012 Skomp Summer Research Feasibility Award, Department of Anthropology, Indiana University: \$2,500.

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- 2012 Tinker Field Research Grant through the Center for Latin American and Caribbean Studies, Indiana University: \$700.
- 2012 Honorable mention for NSF Graduate Research Fellowship Program.
- 2012 Honorable mention for Ford Foundation Predoctoral Fellowship.
- 2011 Honorable mention for Ford Foundation Predoctoral Fellowship.
- 2005 Dean's Scholar Award, Department of Foreign Languages and Literatures.

## **ACTIVE RESEARCH PROJECTS**

### **Co-Director, Monte Albán Digital Archaeology Project, Oaxaca, Mexico**

Indiana State University

January 2018 – Present

Responsibilities include: Developing educational modules for virtual reality (VR) environments, designing VR environments that are useful to archaeologists for generating and testing hypothesis, rendering and optimizing 3D digital models of Monte Albán's main plaza and surrounding architecture for use in Unity, testing VR builds, implementing trials and gathering user feedback, running GIS analyses using 3D surface of Monte Albán's main plaza and surrounding architecture, modeling sound propagation, visibility, and calculating volume. Website:

<https://montealban.oucreate.com/>.

### **Principal Investigator, Photogrammetry and GIS Specialist, Bethel Cemetery Project**

Cardno Inc., Indiana, USA, Manager: Ryan Peterson

March 2018 – Present.

Responsibilities include: Designing and overseeing the structure from motion (SfM) photogrammetry data collection routines and protocols for documenting the excavation of over 300 graves. Mapping, documenting, and rendering 3D models of the ground surface, grave markers, and burials that are to scale and integrated in a GIS. In charge of all postprocessing of mapping and photogrammetry data collected in the field.

### **Director, Quiechapa Archaeological Project, Oaxaca, Mexico**

Indiana State University

January 2016 – Present.

Responsibilities include: Logistical planning, working with Mexican national and municipal authorities, managing personnel, collecting, organizing, and synthesizing field notes on observations during survey, leading survey teams on regional archaeological survey, building, organizing, and curating a geospatial database containing regional archaeological data, ceramic analysis, lithic analysis.

## **RESEARCH AND FIELD EXPERIENCE**

### **2020 Contractor, UAV Mapping and 3D Modeling of Old Union Cemetery, Marion County, Indiana**

Indiana State University

March 2020

Responsibilities include: Precision mapping and documentation of the 19<sup>th</sup> – 20<sup>th</sup> century cemetery known as the Old Union Cemetery, capturing imagery using a UAV (drone), processing imagery to produce deliverables such as a digital surface model, orthomosaic, and contour lines for our client Cardno Inc.

**2017 Project Member, UAV and Photogrammetry Specialist, Geophysical Project of Monte Albán, Oaxaca, Mexico**

University of Oklahoma, Director: Marc N. Levine  
June 2017

Responsibilities included: Mapping using an unmanned aerial vehicle (UAV), digital cameras, and a survey grade global positioning system (GPS), piloting missions, postprocessing and reconstructing data, training other archaeologists in photogrammetric methods, working with other specialists in archaeology as a collaborative team.

**2014 Director, Quiechapa Anthropological Project, Oaxaca, Mexico**

Indiana University  
May - July 2014

Responsibilities included: Logistical planning, working with town authorities, interviewing and recording town residents, collecting and transcribing local archival sources, managing personnel, collecting, organizing, and synthesizing field notes on observations of agricultural and religious practices.

**2013 Project Member, Survey Team Supervisor, Nejapa-Tavela Archaeological Project, Oaxaca, Mexico**

Indiana University, Director: Stacie M. King  
January - July 2013.

Responsibilities included: Leading and logistical planning of archaeological survey, personnel management, ceramic analysis, GIS data processing and analysis.

**2013 Director, Quiechapa Anthropological Project (Feasibility study), Oaxaca, Mexico**

Indiana University  
June 2013

Responsibilities included: Logistical planning, working with town authorities, interviewing and recording local informants, collecting and transcribing archival sources.

**2012 Director, Guichina Anthropological Project (Feasibility study), Oaxaca, Mexico**

Indiana University  
June 2012

Responsibilities included: Finding and photographing relevant archival manuscripts in state and national archives, working with local archivists with materials from the 17<sup>th</sup> century, indexing and transcribing manuscripts.

**2011 Project member, Nejapa-Tavela Archaeological Project, Oaxaca, Mexico**

Indiana University, Director: Stacie M. King

March 2011 - July 2011

Responsibilities included: Archaeological survey, ceramic analysis, GIS data processing and analysis.

**2010 Volunteer Field Staff, Ste. Genevieve, MO**

Indiana University

July 2010

Responsibilities included: Excavation at a Mississippian period site (23SG100).

**2006 Contract Archaeology (survey and mapping), Christiansburg, VA**

Radford University

April 2006

Responsibilities included: Survey of the Christiansburg Institute historic site; creating a map and database for the site; overlaying proposed construction plan on the data points collected.

**2006 Intern/Research Assistant, Radford, VA**

National Park Service,

August 2005 – Summer 2006.

Responsibilities included: Battlefield survey using GPS equipment; analyzing and processing data collected from Saltville using ArcGIS software; writing quarterly reports on GPS/GIS survey; assisting in field school where we conducted test excavations archaeology; working with Saltville's town government and NPS to develop a preservation plan.

**2005 Volunteer Field Staff, University of Kentucky**

Kentucky Archaeological Survey

September, 2005

Responsibilities included: Archaeological excavations at Fort Vause (44MY59), a French & Indian War fortification in Shawsville, VA.

**2005 Field School, Blacksburg, VA**

Radford University

June - July 2005

Responsibilities included: Test excavations at Smithfield Plantation (44MY97) in Blacksburg, VA; mapping and surveying Civil War earthen features using GPS and remote sensing equipment in Saltville, VA; excavation with the Forest Service at a late Woodland period site (44PA1) in Luray, VA.

## **TEACHING EXPERIENCE**

### **INDIANA STATE UNIVERSITY, TERRE HAUTE, INDIANA**

**2019 Instructor, ENVI 451 Current Issues in Anthropology: Digital Heritage**

August – December, 10 students

Responsibilities included: Developing a new syllabus for a brand new class which includes teaching methods and skills for students to create and work with digital 3D data using structure from motion photogrammetric techniques, developing practical laboratory modules, grading labs, assigning reading and leading discussion on the topic of digital heritage, designing experiential learning opportunities, working with the Children's Museum in Indianapolis to plan an authentic experience virtualizing artifacts in the museum's collections.

**2019 Instructor, ENVI 272 Introduction to Geospatial Technologies**

August – December, 16 students

Responsibilities included: Teaching a course of my own design, developing curriculum that trains students in the use and implementation of geospatial technology and ArcGIS Pro software. Designing hands-on activities and projects for students to obtain practical skills through experiential learning.

**2019 Instructor, ENVI 310 Introduction to Native Americans**

January – May, 30 students

Responsibilities included: Developing activities and lectures that contextualize the course readings, leading discussions and creating classroom exercises to engage the students with the topics of the course and reinforce concepts learned in the readings, guiding students as they develop their group and individual research projects.

**2019 Instructor, ENVI 303 Cultures of Mexico**

January – May, 16 students

Responsibilities included: Teaching a course of my own design, developing lectures that contextualize the course readings, leading discussions and creating classroom exercises to engage the students with the topics of the course and reinforce concepts learned in the readings, guiding students as they develop their group and individual research projects. Organizing guest lectures from nearby institutions, providing a study abroad opportunity for students interested in traveling to Oaxaca, Mexico.

**2018 Instructor, ENVI 346 Mesoamerican Archaeology**

August – December, 16 students

Responsibilities included: Teaching a course of my own design, developing lectures that contextualize the course readings, leading discussions and creating classroom exercises to engage the students with the topics of the course and reinforce concepts learned in the readings, guiding students as they develop their group and individual research projects.

**2018 Co-Instructor, ENVI 472/572 Topics in Geospatial Technology**

August – December, 6 students

Responsibilities included: Developing a new syllabus for a brand new class which includes teaching methods and skills for students to use work with geospatial data in



ESRI's ArcGIS 10.5 and create 3D digital models using structure from motion photogrammetric techniques, developing practical laboratory modules, grading labs, taking student on experiential learning opportunities. Working with the Children's Museum in Indianapolis to plan an authentic 3D scanning experience of museum collections, writing a grant to purchase equipment used by the students to learn photogrammetry.

#### **INDIANA UNIVERSITY AND PURDUE UNIVERSITY, INDIANAPOLIS, INDIANA**

**2018 Instructor, E335 Ancient Civilizations of Mesoamerica**

January – May, 25 students

Responsibilities included: Teaching a course of my own design, developing lectures that contextualize the course readings, leading discussions and creating classroom exercises to engage the students with the topics of the course and reinforce concepts learned in the readings, guiding students as they develop their group and individual research projects.

**2018 Instructor, A103 Human Origins and Prehistory**

January – May, 25 students

Responsibilities included: Developing lectures that enhance the material in the course textbook, creating classroom exercises to engage the students with the topics of the course, making and grading exams and other course projects.

**2017 Instructor, A103 Human Origins and Prehistory**

August – December, 60 students, 2 sections

Responsibilities included: Developing lectures that enhance the material in the course textbook, creating classroom exercises to engage the students with the topics of the course, making and grading exams and other course projects.

#### **INDIANA UNIVERSITY, BLOOMINGTON, INDIANA**

**2015 Consultant/Proposal Developer, Indiana University GradGrants Center**

June – December

Responsibilities included: Giving presentations to other graduate students that teach the fundamentals of searching for and writing grant proposals. One-on-one consultations with graduate students from a variety of disciplines. Reading and developing grant proposals which includes giving constructive feedback while teaching writing strategies that help secure funding for research.

**2015 Associate Instructor, E320: Indians of North America, Lead Instructor: Dr. Douglas Parks**  
January– May

Responsibilities included: Assisting lead instructor in grading assignments and assessments; Designing assessments; helping students throughout the semester as they write their final term paper.

- 2014 **Associate Instructor, P200: Introduction to Archaeology**, Lead Instructor: Dr. Stacie M. King  
August – December  
Responsibilities included: Leading discussion sections; Guiding engaging activities and exercises that reinforce and explore concepts learned in lecture; giving lectures in the instructor's absence; grading assignments and exams.
- 2014 **Associate Instructor and Grader, CJUS P300: Prosecution**, Lead Instructor: Judge Mary Ellen Diekhoff  
January – May  
Responsibilities included: Administering and grading examinations.
- 2013 **Associate Instructor, P200: Introduction to Archaeology**, Lead Instructor: Dr. Stacie M. King  
August– December  
Responsibilities included: Leading discussion sections; Guiding engaging activities and exercises that reinforce and explore concepts learned in lecture; giving lectures in the instructor's absence; grading assignments and exams.
- 2012 **Associate Instructor, E321: Peoples of Mexico**, Lead Instructor: Dr. Anya Peterson Royce  
August – December  
Responsibilities included: Assisting lead instructor in grading assignments and assessments; leading classroom activities in the instructor's absence.
- 2012 **Associate Instructor, A200: Bizarre Foods**, Lead Instructor: Dr. Sonya Atalay  
January – May  
Responsibilities included: Assisting lead instructor in grading assignments and assessments; leading classroom activities in the instructor's absence.
- 2011 **Associate Instructor, P200: Introduction to Archaeology**, Lead Instructor: Dr. Stacie M. King  
August – December  
Responsibilities included: Leading discussion sections; Guiding engaging activities and exercises that reinforce and explore concepts learned in lecture; giving lectures in the instructor's absence; grading assignments and exams.

**CHRISTCHURCH HIGH SCHOOL, CHRISTCHURCH, VIRGINIA**

2006 **Spanish Teacher**

- 2010 Responsibilities included: Creating curriculum for and teaching high school Spanish levels I, II, III, IV, and honors; Overseeing 30 boarding students and coordinating faculty members as hall leader; coaching varsity and junior varsity soccer; directing music in Spring musical production and chapel choir; other duties as assigned; Creating and co-directing a language immersion study abroad program.

## **STUDY ABROAD/FIELD SCHOOLS**

**2019 Faculty, Corral Redondo Field School, Iquipi, Peru**

**Institute for Field Research**

July – August, 10 students

Responsibilities included: Teaching the fundamentals of archaeology to students while in a field setting. Developing presentations and exercises that teach the various concepts involved in settlement pattern survey methodologies. Giving a formal lecture on 3D documentation in archaeology using structure from motion photogrammetry. Teaching students about other facets of field research such as working with the local community, logistics and planning, travel, and research design. Programming educational exercises that enrich the students' daily field experiences. Designing and administering a formal exam.

This program is dedicated to teaching through research and is designed to include both. As such, students were engaged in a true research project. Beyond my pedagogical duties, additional responsibilities included: Designing and carrying out a regional archaeological pedestrian survey method that incorporates the use of UAV(drone) and differential GPS. Piloting a UAV to map archaeological sites and other larger features such as architecture and/or carved stone slabs. Working with local guides and informants, organizing and managing project data collected in the field, and writing field reports.

**2019 Faculty leader, ENVI 303/496 Cultural Diversity and the Politics of Heritage of Oaxaca, Mexico, Faculty-Led study abroad, Anthropological field program**

**Indiana State University**

May – June, 10 students

Responsibilities included: Organizing a study abroad trip to Oaxaca, Mexico where students would engage with the culture and history of Oaxaca, planning activities and curriculum that would enhance students' understanding of cultural diversity and the political nature of heritage within the context of Mexico, coordinating visits to active research sites and authentic cultural settings to give students' the opportunity to experience first-hand what it is like to do anthropological research, guiding students as they developed their own small research projects over the course of three weeks.

This course was a Faculty-Led study abroad undergraduate experience that was taught as an optional part of my course ENVI 303. Students also had the option of taking the course for advanced research credits (ENVI 496).

**2017 Director and Instructor, I499: Heritage and Cultural Diversity in Oaxaca, Mexico**  
**Indiana University**

May – June, 9 students

Responsibilities included: Planning and facilitating all program activities such as cultural experiences, travel in Oaxaca, archaeological site visits, museum visits, etc.; creating a

budget and keeping track of expenses; teaching in a place-based learning environment; organizing guest lectures; providing meals and housing for students; keeping students safe.

**2012 Associate Instructor, I499: Heritage and Cultural Diversity in Oaxaca, Mexico**

Lead Instructor: Dr. Stacie M. King

May – June, 9 students

Responsibilities included: Assisting lead instructors in facilitating all program activities; planning cultural experiences; keeping track of expenses; teaching in a place-based learning environment; providing meals for students while keeping track of dietary needs.

**WORKSHOPS (DESIGNED AND LED)**

*Photogrammetry Workshop*, workshop at Indiana State University, Terre Haute, IN, October 26, 2019; led by Alex Elvis Badillo.

*SfM Photogrammetry: Postprocessing (day 3 of 3)*, workshop at the Children’s Museum of Indianapolis, Indianapolis, IN, August 29, 2018; led by Alex Elvis Badillo.

*SfM Photogrammetry: Hands-on Training (day 2 of 3)*, workshop at the Children’s Museum of Indianapolis, Indianapolis, IN, June 20, 2018; led by Alex Elvis Badillo.

*SfM Photogrammetry: Principles, Techniques, and Workflow (day 1 of 3)*, workshop at the Children’s Museum of Indianapolis, Indianapolis, IN, May 15, 2018; led by Alex Elvis Badillo.

*The Joys of Photogrammetry: Principles, Techniques, and Workflow*, workshop at University of Oklahoma’s Sam Noble Museum, Norman, OK, April 28, 2017; led by Alex Elvis Badillo.

**PROFESSIONAL SERVICE**

**MEMBERSHIPS**

Society for American Archaeology, Indiana Archaeology Council

**POSITIONS**

**2020 Panelist**, Sin Gafetes: Encuentro Internacional de Estudios Críticos Sobre Patrimonio, México 2020, Online discussion panel via Zoom, June 24, 2020.

**2019 Organizer**, *Photogrammetry Workshop*, beginner’s workshop on SfM photogrammetric methods for archaeology open to members of the Indiana Archaeology Council, October 26.

- 2019 **Panelist**, *Building Foundations for Sustained Community Archaeology*, discussion panel at the 84<sup>th</sup> Annual Society for American Archaeology Conference, Albuquerque, NM, April 10 – 14, 2019.
- 2018 **Presenter**, *Archaeology and Technology*, recurring presentation given at The Children’s Museum of Indianapolis during Archaeology Day to introduce visiting families to the new technologies available to archaeologists of the 21<sup>st</sup> century, October 20, 2018; presented by Alex Elvis Badillo.
- 2018 **Organizer**, Archaeology Day at The Children’s Museum of Indianapolis, volunteer service work with students from Indiana State University to teach children about archaeology through an engaging game, 5 undergraduate students participated, October 20.
- 2017 **Organizer and Chair**, *Mountain towns and crossroads: Archaeology of the Sierra Sur of Oaxaca, Mexico*, at the 82<sup>th</sup> Annual Society for American Archaeology Conference, Vancouver, Canada, 12 papers presented, March 29 – April 2, 2017.
- 2016 **Organizer**, Archaeology Day at The Children’s Museum of Indianapolis, volunteer service work with graduate students from Indiana University to teach children about archaeology through an engaging game, 3 graduate students participated, October 15.

#### MANUSCRIPT REVIEWER

Advances in Archaeological Practice.  
PLOS One.

#### UNIVERSITY SERVICE

##### COLLEGE LEVEL

**Member**, Faculty Council, Departmental Representative from EES (Fall 2019).

##### DEPARTMENT LEVEL

**Member**, Graduate Affairs Committee, (AY 2020-2021).

**Member**, Faculty Affairs Committee (AY 2020-2021).

**Chair**, EES Department Speaker Series (AY 2019-2020).

**Member**, Faculty Affairs Committee (AY 2019-2020).

**Organizer**, Fourth Annual Wittman Lecture, Rosemary Joyce, Canceled due to pandemic (AY 2019-2020).

**Member**, EES Department Chair Search Committee (Spring 2019).

#### OTHER SERVICE ACTIVITIES

- 2020 Throughout the year, I have been engaged in working with students in my lab, working to set up a new visualization classroom and makerspace, and creating educational content for YouTube. Much of my time not engaged in formal instruction and research was spent on these service activities during the 2019-2020 academic year.

In my lab, GVALS, I worked with students on class projects and labs, and to design their own projects that will develop their skillsets to contribute to career readiness. Both graduate and undergraduate students are making use of the space and equipment in GVALS. Additionally, I trained a new lab manager and lab assistant.

This year, Stephen Aldrich and I began the process of designing, planning, and executing the renovation of room 158 of the Science Building at ISU to establish the new Sycamore Collaborative Visualization Classroom and Makerspace (SCVCM). As of August 14, the renovations were finished and the classroom was ready for a soft open during the Fall 2020 semester. Much time was spent in the planning of the room and the selecting and purchasing of equipment. While the room is currently open to scheduled classes, we will spend the 2020-2021 academic year finalizing equipment setup and establishing an organizational infrastructure so that the room will be open for University-wide use in Fall 2021.

As much of the skills that I teach in my classes are computer software skills, I decided to make YouTube tutorials for ISU students and faculty to use for class labs and training. These videos are made public and are accessible to a broader global audience. I consider this a service to my professional community.

2019 Since August, I have been active getting my lab, GVALS, up and running again for the 2019-2020 academic year. With the help of my new lab manager, we have been able to restart our volunteer program and training services. I spend time in GVALS not only doing research, but also training students on how to make scientific 3D models and about the various applications and uses these 3D model have in research and the industry.

In June, I returned to Quiechapa, Oaxaca, Mexico, to give an hour long public presentation in coordination with town authorities about the results of the archaeological survey that I conducted in their municipality. Over 120 people attended the presentation. ISU Students who were a part of the Faculty-Led Study Abroad in Oaxaca this year also attended this presentation so that they can see a side of archaeological research that many students don't get to see.

In addition to giving a public presentation in Quiechapa, I worked with Quiechapa's town authorities and the staff at the Biblioteca Burgoa in Oaxaca City to coordinate the restoration and long-term conservation of a *lienzo*, a rare historic document consisting of painted cloth with Mesoamerican pictorial writing that refers to Quiechapa territorial history. Together with town authorities, we drove to Oaxaca City with the document and turned it in with the conservator and restoration specialist. Within the year, I expect to return to Quiechapa to be present for the unveiling event of this important piece of Quiechapa's history.

- 2018 Also in October, I volunteered at TCM on Archaeology day. I brought five students from Indiana State University with me to facilitate an activity meant to engage kids with archaeological survey and settlement pattern studies.

Beginning in October, I established a new lab at ISU called, the Geospatial and Virtual Archaeology Laboratory and Studio (GVALS). In this lab, students come to learn how to create measurable 3D digital models and use other 3D or geospatial technologies. While it is not a formal classroom, students are learn by doing. By May, ten students received training in this lab, six of the ten students became regular volunteers.

- 2017 In October, an Indiana University graduate student in the Department of Spanish and Portuguese who studies colonial literature began to work on a detailed analysis of a *lienzo* (painted cloth with Mesoamerican pictorial writing) from Quiechapa. This is a collaborative project and we hope to publish on our findings. The student plans to write a Master's thesis on the lienzo. Town authorities from Quiechapa have given us the permission to begin this study and we hope to collaborate with them in plans to protect and conserve the painting/document for posterity.

Since August, a member of the Quiechapa community expressed interest in writing a synthesis of some of Quiechapa's history based on the content of Quiechapa's local archives. He has been working with me to transcribe the archival data I collected in 2014. He has transcribed and coded over one hundred manuscript pages of the 400+ pages I photographed. He plans to continue his work and write a synthesis for his town in the years to come.

From January to May, I continued to mentor a student who previously worked on my field project and involved him in the writing stages of the research process. He helped digitize artifact drawings and make maps. He also used the GIS data from my project to enhance learning in his GIS courses completing a semester long research project. Later, we co-wrote a paper to present at Society for American Archaeology conference in Vancouver, Canada.

- 2016 On Archaeology day, I volunteered at the Indiana Children's Museum in Indianapolis to design and facilitate an activity meant to engage kids with archaeological survey and settlement pattern studies. The overall outcome was meant to teach basic principles of archaeology.

In coordination with the town authorities of San Pedro Mártir Quiechapa, I organized two events during which formal presentations were given about the archaeological research of the region followed by an exhibition of artifacts recovered during the archeological survey, videos and photos of the research, and field equipment used during survey. The entire town was invited to come and visit our field house and attend the presentations. Approximately 80 people showed interest and enjoy seeing what the research was about first-hand.

Beginning this year, I mentored an undergraduate student and trained him how to conduct regional pedestrian survey and directed a readings course where he learned about the archaeology of southern Mexico. He joined me in the field for my dissertation project where he had infield experiences doing survey, mapping sites, analyzing ceramics, and making 3D models of artifacts. From August to December he continued to work with me learning how to use GIS software, digitize artifact drawing, and develop his own small research project.

2015 During the Spring and Fall semesters, I volunteered my time mentoring a student with her undergraduate research project. As part of the Indiana University Science, Technology, and Research Scholars (STARS) program, the student was planning her senior thesis during her Junior year. Her faculty mentor and I worked together with her to help her develop a research project using linguistic data from my field site in Quiechapa, Oaxaca, Mexico. Throughout the year, we held weekly meetings to discuss the research and to provide the student with academic support. During this time, I taught her about the research process including: how to develop and address research questions, choosing a methodology, learning about the limitations of the research, interpreting the data, and how to write up the results. She has since finished her Senior thesis and graduated from Indiana University. In the Spring of 2017, she will be presenting at an invited session at the Society for American Archaeology conference. Using her research, she also plans to publish two academic articles, both self-authored and co-authored.

2014 During this year I began a book project. The book will document local history, customs, and folklore of the town of San Pedro Mártir Quiechapa. The book is intended for the town authorities and local schools. The project is a collaboration between PAQuie project members and local people.

2012 I served on the editorial staff for the World Archaeological Congress (WAC) as they organized the 2013 WAC conference in Jordan. I volunteered time editing paper abstracts and titles.

I volunteered to create to three vignettes for the community museum in Santa Ana Tavela located in Oaxaca, Mexico. These films showcase local archaeological sites and history. I spent time in the field working with the local museum committee developing and shooting the films. Two of the films were adapted and translated into English to aid in teaching archaeological excavation and survey in introductory level archaeology courses.

2011 I assisted in organizing and overseeing a three-day exhibition in Santa Ana Tavela of work we had been doing since 2009. Over 300 people toured the exhibition to learn from the site maps and artifacts we had on display. This educated local people about



what we do as archaeologists, what their town has to offer in terms of cultural heritage and pride, and about our plans and goals for working with them in years to come.

I volunteered for Science Night at a local elementary school through our department graduate student association. At the event, I spend time engaging students and teaching about what archaeologists do and how they use the scientific method to interpret archaeological remains.

#### **PRESENTATIONS AND OTHER MEDIA (NATIONAL AND INTERNATIONAL)**

- 2020 *Integrating UAV mapping and SfM photogrammetry into a regional pedestrian survey of the Ocoña and Chorunga river valleys in southern Peru*, paper presented an online symposium entitled In the Footsteps of Toribio Mejia Xesspe: The Corral Redondo Archaeological Project, Peru, May 30, 2020; presented by Alex Elvis Badillo and Abraham Seare.
- 2020 *The Archaeological Survey and Settlement Patterns of the Ocoña and Chorunga Valleys*, paper presented an online symposium entitled In the Footsteps of Toribio Mejia Xesspe: The Corral Redondo Archaeological Project, Peru, May 30, 2020; presented by Erika Simborth, Alex Elvis Badillo, and Hans Barnard.
- 2020 *The Petroglyphs of Chillihuay: Context and Meaning*, paper presented an online symposium entitled In the Footsteps of Toribio Mejia Xesspe: The Corral Redondo Archaeological Project, Peru, May 30, 2020; presented by Danny Zborover, Alex Elvis Badillo, and Willy Huashuayo Chávez.
- 2019 *Quietchapa: A Window into the History of the Sierra Sur*, paper presented in the symposium entitled Approaches to Cultural and Biological Complexity in Mexico at the Time of Spanish Conquest in the 84<sup>th</sup> Annual Society for American Archaeology Conference, Albuquerque, NM, April 10 – 14, 2019; presented by Alex Elvis Badillo and Pedro Guillermo Ramón Celis.
- 2019 *Zapotec Funerary Tradition: A Perspective between Bioarchaeology and Landscape Archaeology*, paper presented in the symposium entitled Living and Dying in Mountain and Highland Landscapes in the 84<sup>th</sup> Annual Society for American Archaeology Conference, Albuquerque, NM, April 10 – 14, 2019; presented by Ricardo Higelin Ponce de León, Pedro Guillermo Ramón Celis, and Alex Elvis Badillo.
- 2019 *Bethel Cemetery: Photogrammetric Field Methods in Burial Excavation*, paper submitted in the electronic symposium entitled Towards a Standardization of Photogrammetric Methods in Archaeology: A Conversation about ‘Best Practices’ in an Emerging Methodology in the 84<sup>th</sup> Annual Society for American Archaeology Conference, Albuquerque, NM, April 10 – 14, 2019; presented by Joshua Myers and Alex Elvis Badillo.

- 2019 *The Bethel Cemetery Relocation Project: Academic Collaboration, Archaeological Science, and CRM*, paper presented in the symposium entitled *Archaeological Science Outside the Ivory Tower: Perspectives from CRM* in the 84<sup>th</sup> Annual Society for American Archaeology Conference, Albuquerque, NM, April 10 – 14, 2019; presented by Ryan Peterson, Alex Badillo, Joshua Myers, and Jeremy Wilson.
- 2018 *Digitizing the Past: Ancient settlement patterns, public archaeology, and virtual heritage in Oaxaca, Mexico*, lecturer for the 2<sup>nd</sup> annual Barbara D. Jackson Lecture in Anthropology, November 1, 2018; presented by Alex Elvis Badillo.
- 2018 *Arqueología pública y el patrimonio cultural en San Pedro Mártir Quiéchapá, Oaxaca*, presenter at the inaugural workshop of the Indiana University Mexico Gateway entitled *Voces del Pueblo: Lenguas Indígenas, Literatura, y Culturas Vivas*, Mexico City, Mexico, May 28 – 29, 2018; presented by Alex Elvis Badillo.
- 2018 *Mapping from the Heavens: UAV(Drone) Data Collection at Monte Alban, Oaxaca, Mexico*, paper presented in the symposium entitled *Looking Down on Mesoamerica: Applying Geophysical Prospection, UAV Mapping, and LiDAR to the Archaeological Record* in the 83<sup>rd</sup> Annual Society for American Archaeology Conference, Washington D.C., April 11 – 15, 2018; presented by Alex Elvis Badillo and Marc Levine.
- 2018 *Monte Alban's Main Plaza: New Perspectives Gained through Geophysical Prospection and Digital Mapping*, paper presented in the symposium entitled *Looking Down on Mesoamerica: Applying Geophysical Prospection, UAV Mapping, and LiDAR to the Archaeological Record* in the 83<sup>rd</sup> Annual Society for American Archaeology Conference, Washington D.C., April 11 – 15, 2018; presented by Marc Levine, Alex Elvis Badillo, Scott Hammerstedt, Amanda Regnier, and Marcus Winter.
- 2018 First Civilizations: War (Episode 1), PBS special, aired April 24, 2018, credit Alex Elvis Badillo as presenter (26:55 – 30:31).
- 2017 *Narratives of Quiéchapá in light of material evidence from regional survey*, paper presented at the 82<sup>th</sup> Annual Society for American Archaeology Conference, Vancouver, Canada, March 29 – April 2, 2017; presented by Alex Elvis Badillo.
- 2017 *The Sierra Sur in 3D: Benefits of Photogrammetry and 3D Printing for Archaeological Research in Remote Regions*, paper presented at the 82<sup>th</sup> Annual Society for American Archaeology Conference, Vancouver, Canada, March 29 – April 2, 2017; presented by Lindsey Kitchell and Alex Elvis Badillo
- 2017 *Settlement Survey of the Rural Mountainous Region of Quiéchapá in Southern Mexico*, paper presented at the 82<sup>th</sup> Annual Society for American Archaeology Conference, Vancouver, Canada, March 29 – April 2, 2017; presented by Aaron Estes and Alex Elvis Badillo.

- 2016 *Comunicación y vinculación del patrimonio cultural en el municipio de Quiéchapa, Oaxaca*, paper presented at the 1<sup>er</sup> Encuentro Internacional sobre Patrimonio Cultural de Oaxaca, Oaxaca, Mexico, December 6 – 10, 2016; presented by Alex Elvis Badillo.
- 2016 *Archaeological Prospecting using Remote Sensing Techniques in Quiéchapa, Oaxaca, Mexico*, poster presented at the 81<sup>st</sup> Annual Society for American Archaeology conference, Orlando, Florida, 2016; presented by David P. Massey and Alex Elvis Badillo.
- 2016 *Omichicahuaztli: production, use, and transformation over space and time in Mesoamerica*. poster presented at the 81<sup>st</sup> Annual Society for American Archaeology conference, at Orlando, FL. April 6-10, 2016; presented by Valeria Bellomina, Ricardo Higelin Ponce de León, and Alex Badillo.
- 2015 *Full coverage survey techniques in the mountains of the Sierra Sur, Oaxaca, Mexico*, poster presented at the 80<sup>th</sup> Annual Society for American Archaeology Conference, San Francisco, CA, April 16, 2015; poster by Alex Elvis Badillo.
- 2014 *Systematic Mountain Survey of the Nejapa Valley Region, Oaxaca, Mexico*, presented at the 79<sup>th</sup> Annual Society for American Archaeology Conference, Austin, TX, April 26, 2014; presented by Alex Elvis Badillo.
- 2012 *Recent archaeological investigations in the Nejapa Region of Oaxaca, Mexico*, presented at the 77<sup>th</sup> Annual Society for American Archaeology Conference, Memphis, TN, April 21, 2012; presented by Elizabeth Konwest, Alex Elvis Badillo, and Stacie M. King.
- 2011 *Recorridos Arqueológicos en la Región de Nejapa, Oaxaca*, presented at the Noveno Simposio Internacional de Estudios Oaxaqueños, Oaxaca, México, July 8, 2011; presented by Elizabeth Konwest and Alex Elvis Badillo.

#### **PRESENTATIONS AND OTHER MEDIA (REGIONAL)**

- 2015 *Archaeological pre-survey techniques in the mountains of the Sierra Sur, Oaxaca, Mexico*, poster presented at the 2015 Indiana GIS conference poster contest, Indianapolis, IN, May 12 and 13, 2015; poster by Alex Elvis Badillo.
- 2015 *Ritual landscapes of Quiéchapa, Oaxaca, Mexico*, paper presented at the 2015 AGSA symposium, Digital Communication, Collaboration, and Preservation, Indiana University, Bloomington, IN, February 21, 2015; presented by Alex Elvis Badillo.
- 2014 *Ancient roads through southern Mexico: Least Cost Path analysis applied in Archaeology*, poster presented at the 2014 Indiana GIS conference “Mapping a Difference” poster contest, Indianapolis, IN, May 7 and 8; second place winner; poster by Alex Elvis Badillo.

Alex Elvis Badillo, Ph.D., CV

- 2014 *Proyecto Arqueológico de Guichina (PAGUI), or so I thought...*, presented at the 2014 AGSA symposium, Breaking Down Barriers, Bloomington, IN, February 22, 2014; presented by Alex Elvis Badillo.
- 2012 *Archaeological Survey in the Nejapa Region, Oaxaca, Mexico*, presented at the 2012 AGSA symposium, Branching Out: Anthropology and Interdisciplinary Approaches, Bloomington, IN, March 25, 2012; presented by Alex Elvis Badillo and Elizabeth Konwest.
- 2006 *Blue Ridge Excursions*, documentary segment on mapping Civil War earthworks in Saltville, VA, Local PBS, July 2006.
- 2005 *Vital Words and Vital Actions: Partnerships to Build a Healthy Place: Appalachian Studies Association Conference 2005*. Documentary film, Radford University, Radford, VA, Spring 2005.

#### **PRESENTATIONS AND OTHER MEDIA (LOCAL)**

- 2017 *Drone-aided Mapping and Photogrammetry of Monte Alban's Main Plaza, Oaxaca, Mexico*, guest speaker for University of Oklahoma's Anthropology Brown bag series, Norman, OK, November 17, 2017; presented by Alex Elvis Badillo and Marc Levine.
- 2017 *Feeling overwhelmed: Navigating the politics of a narrative*, guest lecture for S412 Spanish America: the Cultural Context, Indiana University, Bloomington, IN, October 17, 2017; presented by Alex Elvis Badillo.
- 2017 *Proyecto Geofísica de Monte Albán (PGMA): Resultados Preliminaarios*, invited presentation at the Zona Arqueológica de Monte Albán, Oaxaca, Mexico, July 2017; presented by Marc N. Levine, Scott Hammerstedt, Amanda Regnier, and Alex Elvis Badillo.
- 2016 *Arqueología Pública y la vinculación del patrimonio cultural en la Sierra Sur*, guest lecture for the Coloquio Interno de Antropología Física de la Universidad Autónoma "Benito Juárez" de Oaxaca, Oaxaca, Mexico, December 12, 2016, presented by Alex Elvis Badillo.
- 2015 *Unique landscapes of Quiechapa, Oaxaca, Mexico*, poster presented at the 2015 Sustainability Internship Symposium, Bloomington, IN, April 10, 2015; poster by Alex Elvis Badillo.
- 2015 *Fieldwork experiences in Nejapa, Mexico*, guest lecture for ANTH 254 Introduction to Archaeology, Ivy Tech Community College, Bloomington, IN, March 10, 2015; presented by Alex Elvis Badillo.

Alex Elvis Badillo, Ph.D., CV

*From the field...to the lab: Regional survey and site mapping*, guest lecture for P399 GIS in Archaeology, Indiana University, Bloomington, IN, December 4, 2014; with Alex Elvis Badillo.

2012 *Las raíces del bellissimo pueblo de Santa Ana Tavela*. Film created for the Museo Comunitario de Santa Ana Tavela; written by Stacie M. King, produced and edited by Alex Elvis Badillo and Stacie M. King.

2012 *Excavaciones en Los Picachos*. Film created for the Museo Comunitario de Santa Ana Tavela; written by Stacie M. King, produced and edited by Alex Elvis Badillo and Stacie M. King.

2012 *Recorrido arqueológico en Santa Ana Tavela, Mexico*. Film created for the Museo Comunitario de Santa Ana Tavela; written by Stacie M. King, produced and edited by Alex Elvis Badillo and Stacie M. King.

2006 *RU Field School 2005: Mapping History*, Article for the Saltville Newsletter, written by Alex Elvis Badillo, August 2006.

2005 *The Future of the Saltville Battlefields: A Report on the American Battlefield Protection Program Mapping Project*, presented at the Saltville Symposium 2005, Saltville, VA, October 1, 2005; presented by Dr. Robert C. Whisonant, Dr. C. Clifford Boyd, Jr., Alex Elvis Badillo (RU student), Angela M. Dautartas (RU student), Kristen L. Stevens (National Park Service).

## **TECHNOLOGICAL SKILLS**

Proficient in Mac OS, Windows XP-10, Microsoft Office Suite, ArcGIS Desktop, ArcGIS Pro, Adobe Illustrator, Adobe Photoshop, Adobe Premiere, Windows Mobile, Agisoft Metashape Professional, Autodesk Recap Photo, Autodesk Tinkercad, Autodesk Maya, Meshmixer, Meshlab, Meshroom, CloudCompare, Cura, Simplify, Unity.

Extensive knowledge of and experience with ArcGIS Desktop, ArcGIS Pro, and Agisoft Metashape Professional.

Practical knowledge of various global positioning system (GPS) platforms including equipment made by Emlid, Magellan, Garmin, and Trimble.

## **LANGUAGES**

Proficient in English and Spanish  
Elementary knowledge of Isthmus Zapotec

## **COLLABORATORS**

Christy O'Grady, Exhibition Conservation Manager, The Children's Museum of Indianapolis.

Alex Elvis Badillo, Ph.D., CV

Danny Zborover, Academic Director of Archaeology, Institute of Field Research, Los Angeles, CA.

Marc Levine, Assistant Curator of Archaeology & Associate Professor of Anthropology, Sam Noble Oklahoma Museum of Natural History, University of Oklahoma.

Maria Cecilia Lozada, Research Associate, Department of Anthropology, University of Chicago.

Mark Sicoli, Assistant Professor, Department of Anthropology, University of Virginia.

Matthew Davidson, District Archaeologist, Forest Service, Daniel Boone National Forest, Cumberland District.

Stacie M. King, Director of Graduate Studies, Department of Anthropology, Associate Professor, Department of Anthropology, Indiana University-Bloomington.

Stephen Aldrich, Associate Professor, Department of Earth and Environmental Systems, Indiana State University.