

Ulises Trujillo Garcia

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EDUCATION

Doctor of Philosophy, Engineering Education Systems and Design

Expected: May 2026

Certificate: *Learning Engineering*

Arizona State University, Tempe AZ

Master of Science, Engineering Education Systems and Design

Summer 2024

Emphasis: *Higher and Postsecondary Education*

Arizona State University, Tempe AZ

Bachelor of Science, Civil Engineering

May 2022

Honors: *magna cum laude*

Boise State University, Boise ID

CORE SKILLS

- Problem Solving:** Skilled in quantitative analysis and structured methodologies to address educational challenges.
- Languages:** Native Spanish speaker (i.e., professional communication and writing).
- Research & Writing:** Experienced in academic papers, proposals, technical reports, and research analysis.
- Technical Tools:** Advanced in Microsoft Office, R, SPSS for analytics and Modeling.

RELEVANT COURSEWORK

- HED 510: Intro to Higher Education.
- HED 527: Student Affairs.
- HED 644: Higher Education Finance/Budgeting.
- HED 688: Organizational Theory.
- EGR 576: Examining Inequities in STEM.

RELEVANT EXPERIENCE

G=Graduate Student; U=Undergraduate Student

Graduate Fellow, *Institute for Inclusive and Transformative Scholarship (IFITS)*^G

Boise State University, Boise ID

May 2025 – July 2025

- Collaborated with a cross-functional team to advance campus-wide initiatives that expand access to research and creative opportunities for undergraduate students.
- Promoted mentorship, collaboration, and student success by helping to build programming and infrastructure that supports equity-minded practices.
- Gained hands-on experience in leadership, program coordination, data management, and strategic planning.
- Supported the design and implementation of events that elevate student engagement and foster a culture of all.

Research Assistant: Activities Developer, *Engineering Education*^G

August 2022 – May 2025

Arizona State University, Mesa AZ

- Redesigned and design activities infusing gamification and culturally responsive pedagogy to introduce migratory high school students to the Engineering Design Process.
- Developed hands-on activities using Arduinos and TinkerCad to enhance migratory students' understanding of the engineering design process.
- Conducted semi-structured interviews to understand how migratory undergraduate students and migratory engineering working professionals lived experiences and family funds of knowledge have shaped their engineering journeys.

Mentor, *Científico Latino*^G

August 2024 – May 2025

- Mentored first-year STEM graduate students on lab rotations and advisor relationships.

- Facilitated group check-ins and workshops on financial planning, navigation of graduate school, and community building.
- Provided feedback on scholarship and fellowship applications, and networking strategies.

Founder, *OMLI Scholarship Fund*^G

September 2021 – May 2024

Treasure Valley Community College, Ontario OR

- Created and managed a scholarship for graduating high school seniors with migrant farm working backgrounds in Eastern Oregon (~\$30,000).
- Vision: Empowering migrant youth into the next generation of leaders through educational access and opportunity.

Crew Leader, *Micron STEM Outreach-Chip Camp*^U

June 2022

Micron, Boise ID

- Served as a role model for students entering 8th and 9th grade to provide an inside hands-on experience on how memory chips are made while inspiring them to learn about the different engineering disciplines.
- Coordinated and facilitate recreational and educational activities for middle school students while assisted by Micron professionals.

Vice President, *Society of Hispanic Professional Engineers*^U

April 2021 – May 2022

Boise State University, Boise ID

- Assisted and advised the president.
- Created and facilitated workshops to develop the skills of SHPE members.

Fundraiser, *Organizacion de Estudiantes Latino Americanos*^U

January 2020 – May 2022

Boise State University, Boise ID

- Prepared multiple funding proposal across campus that secured **\$30,000** in multi-year support.
- Allocated funds strategically to sustain Project: *Dream for Tomorrow* over three years.
- Strengthened long-term organizational capacity by ensuring stable financial resources for student-focused initiatives.

President, *Organizacion de Estudiantes Latino-Americanos*^U

January 2019 – 2020

Boise State University, Boise ID

- Coordinated meetings and supported executive leadership (advisor, vice-president, treasurer) with organizational operations.
- Designed and facilitated professional development workshops, including stress management, career fair preparation, LinkedIn, and resume building for Latinx students on campus.
- Assisted in planning and implementing technical and skill-building sessions to strength Latinx student success and career readiness.

Director, *Project: Dream for Tomorrow*^U

Fall 2019

Boise State University, Boise ID

- Planned, budgeted, and documented a two-day event for Latinx high school students in the Magic and Treasure Valley, Idaho.
- Developed programming on admissions, financial aid, housing, and campus life to increase access to higher education among Latinx high school students.
- Created event documentation and resource materials to support Latinx high school students outreach and engagement.

TEACHING & MENTORING

Instructor

January 2025 – May 2025

Arizona State University, *The College of Liberal Arts and Sciences*

TCL 194 – Special Topics: Exploration in Research: Multidimensional Approach

Course Description: This class is the required seminar for the ASU College Assistance Migrant Program (CAMP) scholars during their first year at ASU. This course provides a basic introduction to the principles, methods, and techniques of empirical social science and humanities research. Topics include the

fundamentals of the scientific method and scientific inquiry, ethical considerations in research, basic methods of quantitative and qualitative data collection, and strengths and weaknesses of various data collection methods.

Workshop Series Instructor

August 2024 – December 2024

Arizona State University, *The College of Liberal Arts and Sciences*

- Topics: Time Management & Professor Relationships, Campus Resources, Resume & Cover Letters, Conference Preparation, Money Matters, Beyond Undergraduate & Study Abroad, and Latinos in Higher Education.
- Developed interactive and culturally responsive curriculum tailored to the needs and interests of migratory undergraduate students in STEM fields from the College Assistance Migrant Program (CAMP).
- Created comprehensive materials and resources, including lesson plans, handouts, and digital content.

Peer Mentor, College Assistance Migrant Program

August 2019 – May 2022

Boise State University, Boise ID

- Provided individual support to students in overcoming personal and academic obstacles during their first year in college.
- Served as a positive social and academic role model by supporting mentees with their campus involvement.
- Informed students about resources available on campus and career opportunities.

Mentor, Oregon Migrant Leadership Institute

Summer 2018, 2019, 2020

Treasure Valley Community College, Ontario OR

- Educated more than 150 migrant students through engaging workshops and activities to become leaders.
- Directed leadership curriculum, icebreakers, team challenges, financial aid/scholarships workshops, volunteer service, and recreation activities for one of the four teams.
- Served as a source of support both during and after the Institute to further students' growth.

Physics & Math Tutor, College Assistance Migrant Program

Fall 2018 – Spring 2020

Boise State University, Boise ID

- Worked with underrepresented students one-on-one to form good study habits.
- Improved confidence in students' ability to solve problems in Physics, Pre-Calculus and Calculus.
- Explained properly the denotation and processes to solve equations.

CONFERENCE PROCEEDINGS

1. **Trujillo, U.**, (2024) Exploring Funds of Knowledge and Social Capital of Migratory Students in STEM: Revised Instrument. *American Society for Engineering Education*.

2. **Trujillo, U.**, & Verdín, D., (2024) Examining Engineering Migratory Students' Funds of Knowledge: Uncovering Interpersonal Skills Needed in Engineering. *American Educational Research Association*.

3. **Trujillo, U.**, Pakala, K., Schauer, S., Bairaktarova, & D., Chittoori, B., (2021) Evaluating STEM Course Re-Design Strategies in Light of COVID-19. *American Society for Engineering Education*.

JOURNALS & BOOK CHAPTERS

1. Garza, D., Facundo, A., **Trujillo, U.**, & Enright E. A., (2024) *Empoderamiento a través del testimonio: Learning about a college of engineering's mission to become a Hispanic serving college in a predominantly white institution*. In L.C. Perez-Felkner, S. Rodriguez, C. Fluker. (Ed.) *Latinx Students in Engineering*.

2. Hagenah, S., **Trujillo, U.**, Pakala, K., Schauer, S., Neeley, L., & Jankowski, E., (2025) Using a Storytelling Intervention to Develop Professional Identity in Undergraduate Engineering Courses: An Exploratory Study. *International Journal of Engineering Education*.

3. Verdín, D., Wells, T. & **Trujillo, U.**, (2025) Increasing Latinx Migratory High School Students' Engineering Interest and Self-Efficacy Beliefs: A Culturally Responsive Gamified Engineering Design Activity. *Journal of Engineering Education (under review)*.

4. **Trujillo, U.**, & Verdín, D. (2025) *Cultivando* Engineering Skills: Uncovering the Funds of Knowledge Among Engineering Students and Professionals with Migratory Backgrounds. *Studies in Engineering Education (under review)*.

IN PREPARATION

1. **Trujillo, U.**, & Verdín, D. (n.d.) Exploring How Migratory Adolescents' Attitudes and Beliefs about Math and Science Cultivate an Engineering Identity.

2. **Trujillo, U.**, & Verdín, D. (n.d.) Examining the Characteristics of Migratory Adolescents' Career Values and their Influence on Pursuing Engineering.

RESEARCH EXPERIENCE

Independent Researcher, *College of Education*

Boise State University, Boise ID

November 2021 – May 2022

- *Empoderamiento a través del testimonio: Learning about a college of engineering's mission to become a Hispanic serving college in a predominantly white institution.*
- Mentor: Dr. Esther Enright
- Conducted literature review and semi-structured interviews.
- Analyzed and decoded qualitative data from semi-structured interviews to translate into findings.

Independent Researcher, *College of Engineering*

Boise State University, Boise ID

January 2022 – May 2022

- *Connecting Engineering with Undergraduate Engineering Students' Life Stories Through Narrative Communication.*
- Mentor: Dr. Krishna Pakala & Dr. Eric Jankowski.
- Composed introduction, literature review, intellectual merit & methodology on the research project.

Research Fellow, *Station1 Frontiers Fellowship*

Lawrence, Massachusetts

June 2021 – August 2021

- *Mixed Method Approach to Advance Equity and Social Justice in Infrastructure.*
- Mentors: Dr. Christine Ortiz, Dr. Ellan Spero, Dr. Jingjie Yeo & Dr. Francisco Martin-Martinez.
- Awarded competitive fellowship valued at \$13,500 to participate in accelerated research program.
- Engaged in 100 hours of interdisciplinary curriculum on socially directed science and technology research and professional development completing over 30 assignments and 270 hours of research internship concurrently.
- Participated in Leadershape, an intensive 4-day leadership curriculum focusing on inclusive leadership.

Sustainable Infrastructure Researcher, *Institute for Sustainable Infrastructure*

Washington DC, Washington DC

June 2021 – August 2021

- *Conducting a Comparative Analysis of Envision Projects related to Sustainability and Resilience*
- Mentors: Kristi Wamstad and Melissa Peneycad.
- Developed a method to analyze scoring across all Envision-verified projects to map frequent achievements, missed opportunities, and identify the strategies used to achieve high performance within the Envision categories, subcategories, and criteri.
- Extracted key findings from projects to highlight best practices that can be shared with the industry.

Undergraduate Researcher, *Louis Stokes Alliances for Minority Participation*

Boise State University, Boise ID

May 2020 – July 2020

- *Evaluating STEM Course Re-Design Strategies in Light of COVID-19*
- Mentor: Dr. Krishna Pakala.

- Conducted Literature Review.
- Designed and deployed a survey to capture the experiences and perceptions from STEM faculty about the rapid transition to online learning in times of disruption.
- Analyzed qualitative and quantitative data to provide the best methods to teach online STEM courses.

PROFESSIONAL DEVELOPMENT, ADVOCACY & PRESENTATIONS

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| Webinar Presenter, <i>HSI Research Hub</i> Las Vegas, NV | May 2025 |
| • Title: Funds of Knowledge in STEM and the College Assistance Migrant Program (CAMP). | |
| Poster Presenter, <i>Frontiers in Education Conference</i> College Station, TX | October 2023 |
| Participant, <i>Society of Hispanic Professional Engineers National Convention</i> Boise State University, ID | October 2020 |
| Poster Presenter, <i>Idaho Conference on Undergraduate Research</i> Boise State University, ID | July 2020 |
| Participant, <i>American Society for Engineering Education 2020 Annual Conference</i> University of Maryland, MD | June 2020 |
| Participant, <i>HACU – ¡Adelante! Leadership Institute</i> Chicago, IL | October 2019 |
| Advocate, <i>HACU Capitol Forum</i> Washington D.C. | April 2019 |
| • Advocated for the Higher Education Act to provide funding to Hispanic Serving Institutions and STEM & Articulation Programs. | |
| Participant, <i>Pacific Northwest LSAMP Conference</i> University of Washington, WA | February 2019 |
| Elected Advocate, <i>HEP/CAMP Annual Directors' Meeting</i> | July 2018 |
| • Advocated for the College Assistance Migrant Program in Capitol Hill. | |

PROFESSIONAL SOCIETIES & VOLUNTEER SERVICE

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|--|--------------------------|
| Member, <i>Tau Beta Pi (Engineering Honor Society)</i> | December 2021 |
| Member, <i>Order of the Engineer</i> | November 2021 |
| Treasurer, <i>Chi Epsilon (Civil Engineering Honor Society)</i> | February 2020 – May 2022 |
| • Managed the finances for the organization | |
| Co-Chaired, <i>Cesar Chavez Blood Drive</i> | 2018 & 2020 |
| • Planning, recruitment, and implementation of blood drive | |

HONORS & AWARDS

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| Teaching Recognition | April, 2025 |
| National Science Foundation (NSF) Graduate Research Fellowship | 2022 – 2025 |
| Graduating Student Leader Designation | May 2022 |
| Undergraduate Research Scholar Designation | May 2022 |
| Keynote Speaker, Latinx Student Recognition | May 2022 |
| Featured, U.S. Department of Education Homeroom Blog | January 2022 |
| Fellow, Micron Academy for Inclusive Leadership | 2021 – 2022 |