

Curriculum Vitae

Richard Carlos L. Velasco

University of Oklahoma

Department of Instructional Leadership and Academic Curriculum

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RESEARCH FOCI

- Designing data science curriculum for secondary education using culturally relevant data.
- Rehumanizing mathematics for equity and to redress social justice issues in math education.
- Exploring the advocacy activities of in/formal STEM educators in creating, informing, and influencing STEM education policy.

EDUCATION

- PhD, 2020** **Texas Tech University, Lubbock, TX**
Doctor of Philosophy in Curriculum and Instruction, STEM Emphasis
Dissertation: Voices for STEM Education: Analyzing Advocacy Activities of American K-12 STEM Educators
Dissertation Adviser: Dr. Rebecca Hite
- MAT, 2010** **University of Saint Mary, Leavenworth, KS**
Master of Arts in Teaching, Curriculum and Instruction Emphasis
- BA, 2007** **University of Guam, Mangilao, GU**
Bachelor of Arts in Mathematics
Bachelor of Arts in Secondary Education

PROFESSIONAL EXPERIENCE

- 2022-present** **Assistant Professor of Mathematics Education**
College of Education, Department of Instructional Leadership and Academic Curriculum
University of Oklahoma, Norman, OK
- 2020-2022** **Clinical Assistant Professor of STEM Education**
College of Education, Department of Teaching and Learning
University of Iowa, Iowa City, IA
- 2020** **Research Associate**
(Summer) College of Education, Department of Curriculum and Instruction
Texas Tech University, Lubbock, TX

- 2019-2020 Graduate Research Assistant: STEM Education**
College of Education, Department of Curriculum and Instruction
Texas Tech University, Lubbock, TX
- 2016-2019 Secondary (8-12) Mathematics Teacher**
Lincoln Middle School and Pullman High School
Pullman Public Schools, Pullman, WA
- 2013-2016 Adjunct Instructor: Mathematics**
College of Natural and Applied Science, Department of Mathematics
University of Guam, Mangilao, GU
- 2013-2014 Curriculum Coordinator**
Guam Department of Education (GDOE)
GDOE District Offices, Mangilao, GU
- 2008-2016 Middle School (6-8) Mathematics Teacher**
F. B. Leon Guerrero Middle School
Guam Department of Education, Yigo, GU

SCHOLARLY PUBLICATIONS

Refereed Journal Articles and Conference Proceedings:

- Velasco, R. C. L., & Hite, R.** (2023). Stakeholders' conceptions of STEM and elementary STEM clubs within a community-university partnership. *The Electronic Journal for Research in Science and Mathematics Education*, 27(3), 75-95. <https://ejrsmc.icrsmc.com/article/view/23144>
- Corven, J., DiNapoli, J., Johnson, K., Long, V., Olanoff, D., Tobias, J., An, T., Clark, D., **Velasco, R. C. L.**, Litster, K. & Kang, B. (2023). Working group on mathematics curriculum recommendations for elementary teacher preparation: Second report. *Proceedings of the 45th Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, USA*, 2, 546-555. <http://www.pmena.org/proceedings/>
- Velasco, R. C. L., & Hong, D. S.** (2023). Understanding one calculus instructor's class practices using a possible student cognitive model. *Proceedings of the 45th Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, USA*, 2, 546-555. <http://www.pmena.org/proceedings/>
- Ataide Pinheiro, **W., Velasco, R. L., & Childers, G.** (2023). Developing a teaching of mathematics for social justice survey. *Proceedings of the 12th International Conference of Mathematics Education and Society, Brazil*, 423-429. <https://mes12brazil.unifesp.br/program-and-proceedings/conference-program-and-proceedings>
- Velasco, R. C. L., & Powell, A.** (2023). Unincorporated: A duoethnography of rehumanizing mathematics from Guåhan and the US Virgin Islands. *Prometeica-Revista de Filosofia y Ciencias*,

(27), 189-198. <https://doi.org/10.34024/prometeica.2023.27.15283>

Hite, R., Johnson, L., Gottlieb, J., McNaughtan, J., & **Velasco, R. C. L.** (2023). Examining the Situative Progression of Teachers' Novice-to-Expert Development in Education Policy. *The Educational Forum*, 1-19. <https://doi.org/10.1080/00131725.2023.2231995>

Velasco, R. C. L., Hite, R., Milbourne, J., & Gottlieb, J. J. (2023). Stand out and speak up: Exploring empowerment perspectives among advocacy activities of American K-12 STEM teachers. *Journal of Teacher Development*, 27(4), 525-541. <https://doi.org/10.1080/13664530.2023.2207095>

Velasco, R. C. L., & Degner, K. (2023). Exploring Representations of Linear and Nonlinear Functions. *Mathematics Teacher: Learning and Teaching PK-12*, 116(5), 349-357. <https://doi.org/10.5951/MTLT.2022.0346>

Velasco, R. C. L. (2022). Constant critical reflexivity: Engaging in an archaeology of self to promote racial literacy in a math teacher education program. *The Educational Forum*, 87(3), 177-191. <https://doi.org/10.1080/00131725.2022.2126051>

Velasco, R. C. L., & Hite, R. (2022). Advocacy interrupted: Exploring K-12 STEM teacher leaders' conceptions of STEM education advocacy before and during COVID-19. *The Electronic Journal for Research in Science & Mathematics Education*, 20, 435-457. <https://doi.org/10.1007/s10763-021-10176-z>

Velasco, R. C. L. (2022). Case of the (gay) ex: Freedom to live fully and deeply. *Journal of Autoethnography*, 3(2), 236-239. <https://doi.org/10.1525/joae.2022.3.2.236>

Cruz, J., Hite, R., & **Velasco, R. C. L.** (2022). Assembling bones, becoming dinosaur: Guests' relationships to museum objects via Deleuzian assemblage within a dinosaur gallery. *Museum Management and Curatorship*, 1-17. <https://doi.org/10.1080/09647775.2022.2054018>

Fujiwara, Y., **Velasco, R. C. L.**, Jones, L. K., & Hite, R. (2022). Competent and cold: A directed content analysis of warmth and competence dimensions to identify and categorise stereotypes of scientists portrayed in meme-based GIFs. *International Journal of Science Education*. <https://doi.org/10.1080/09500693.2022.2050560>

Hite, R., Childers, G., Gottlieb, J., **Velasco, R. C. L.**, Johnson, L., Williams, B., Griffith, K. & Dwyer, J. (2021). Shifts in learning assistants' self-determination due to COVID-19 disruptions in calculus II course delivery. *International Journal of STEM Education*, 8, 55. <https://doi.org/10.1186/s40594-021-00312-0>

Velasco, R. C. L. (2021). Estimating sample sizes in a globally connected Google classroom. *Technology and Engineering Teacher*, 80(8), 20-23.

Velasco, R. C. L., Hite, R., & Milbourne, J. (2021). Analyzing advocacy self-efficacy among K-12 STEM teacher leaders. *International Journal of Science and Mathematics Education*, 20, 435-457.

<https://doi.org/10.1007/s10763-021-10176-z>

Hite, R., Johnson, L., **Velasco, R. C. L.**, Williams, B., & Griffith, K. (2021). Supporting undergraduate STEMM education: Perspectives from faculty mentors and learning assistants in calculus II. *Education Sciences*, 11(3), 1-13. <https://doi.org/10.3390/educsci11030143>

Velasco, R. C. L. (2018). Infusing classrooms with web 2.0 technologies. *Technology and Engineering Teacher*, 77(6), 36-39.

Velasco, R. C. L. (2017). Hearing pacific island voices: Digital divide in Guam's public schools. *Pacific Journal of Education*, 1(2), 25-40. <https://www.fias.org.fj/pje-2017-12/>

Refereed Book Review:

Velasco, R. C. L. (2018, January/February). [Review of the book *Adventures in Mathematical Reasoning*, by S. Stein]. *Mathematics Teacher*, 111(4), 315.

Non-Refereed Publications:

Velasco, R. C. L. (2021, July). A journey from mentee to STEM teacher mentor [Blog]. *Professional STEM Teacher Leadership Network*. <https://stemtlnet.org/theme/july2021-introblog>

Velasco, R. C. L. (2017, January 2). A call for collaborative global education [Editorial]. *Pacific Island Times*.

Revise & Resubmit:

Submitted/In Review:

Fujiwara, Y., Jones, L. K., Hite, R., **Velasco, R. C. L.** (submitted, November 2023). The internationalization of scientist stereotypes through new media: Thai students' perceptions of scientists from graphic interchange formats (GIFs). *Research in Science and Technological Education*.

Velasco, R. C. L., Pullen, K. R., & Remington, J. D. (submitted, November 2023). Advocates for STEM education: Developing advocacy identity in STEM teacher leadership. *School Science and Mathematics*.

Hong, D. S., & **Velasco, R. C. L.** (submitted, November 2023). Using genetic decomposition as a cognitive model to understand one Calculus instructor's class practices in limit lessons. *Mathematics Education Research Journal*.

Velasco, R. C. L., & Espina, T. C. (submitted, September 2023). Rehumanizing STEM for Students in Micronesia: A Case Study of a Guåhan Math Teacher's Aqua-Robotics Project. *Micronesian Educator*.

In Preparation:

Velasco, R. C. L. (in preparation). "Para bai hu prutebi yan hu difende": Towards liberatory STEM

Updated: January 24, 2024

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pedagogy via teacher-activist collaborations. Manuscript in preparation for *Curriculum Inquiry*.

Velasco, R. C. L. (in preparation). Postulating perfect prompts: Leveraging chatbot technologies to engage math students in sociopolitical issues. Manuscript in preparation for *Theory into Practice*.

Velasco, R. C. L., & Jones, L. K. (in preparation). Online (re)learning: Examining eighth graders' motivations in accessing the internet to review mathematics in the United States. Manuscript in preparation for *The International Journal of Mathematical Education in Science and Technology*.

Velasco, R. C. L. (in preparation). Perceived math self-efficacy as predictors of pursuing a STEM Degree: An analysis of TIMSS Advanced 2015 data. Manuscript in preparation.

Hite, R., **Velasco, R. C. L.,** & Johnson, J. (in preparation). Undergraduates' Conceptual Shifts in Fundamental Aspects of Second Semester Calculus. Manuscript in preparation.

SCHOLARLY PRESENTATIONS

Refereed Conference Papers, Workshop and Poster Presentations:

Velasco, R. C. L., & Espina, T. (submitted November 2023). Flowing, Floating, and Fighting: Rehumanizing and Decolonizing Mathematics in a STEM Aqua-Robotics Project in Guåhan. Abstract submitted to the 19th Islands of the World ISISA Conference. Lombok Island, Indonesia.

Velasco, R. C. L. (2024, July). The Indigenous M.I.N.D.S. Project: Micronesian Intelligence for Data Science. Paper accepted for poster presentation at 15th International Congress on Mathematical Education (ICME-15). Sydney, Australia.

Velasco, R. C. L. (2024, July). Culturally Relevant Mathematics Teaching for Students in Micronesia. Paper accepted for presentation at 15th International Congress on Mathematical Education (ICME-15). Sydney, Australia.

Gutiérrez, R., & **Velasco, R. C. L.** (2024, April). Rehumanizing Mathematics: Exploring the Influence of Teacher Candidates' Intersectional Identities. Paper accepted for roundtable presentation at the 2024 AERA Annual Meeting. Philadelphia, PA.

Velasco, R. C. L., & Gutiérrez, R. (2024, April). Preservice Teachers Mapping Observations of Perceived Rehumanizing Mathematics. Paper accepted for roundtable presentation at the 2024 AERA Annual Meeting. Philadelphia, PA.

Velasco, R. C. L., & Hong, D. (2023, October). Understanding One Calculus Instructor's Class Practices Using a Possible Student Cognitive Model. Paper presented at PME-NA 45. Reno, NV.

Pinheiro, W. A., **Velasco, R. C. L.,** & Childers, G. (2023, July). Developing a teaching of Mathematics for Social Justice Survey. Paper presentation at the 12th International

Conference on Math Education and Society. São Paulo, Diadema, Brazil.

Velasco, R. C. L., & Powell, A. (2023, July). Unincorporated: A duoethnography of rehumanizing mathematics from Guåhan and the US Virgin Islands. Paper presentation at the 12th International Conference on Math Education and Society. São Paulo, Diadema, Brazil.

Velasco, R. C. L., & Espina, T. (2023, April). Using a Rehumanizing Framework as Sociopolitical Lens to Analyze a Guåhan Math Teacher's Lesson Plans. Roundtable presentation at the 2023 AERA Annual Meeting. Chicago, IL.

Walkowiak, T., Broaddus, A., Franz, D., & **Velasco, R. C. L.** (2023, February). Highlighting the Work of Louisiana Mathematics Teacher Educators. Presentation at the 27th Annual Conference of the Association of Mathematics Teacher Educators (AMTE). New Orleans, LA.

Velasco, R. C. L., & Hong, D. S. (2023, February). Opportunities for Recruitment, Retention, and Diversification of the Math Teacher Pipeline: A Noyce Case Study. Presentation at the 27th Annual Conference of the Association of Mathematics Teacher Educators (AMTE). New Orleans, LA.

Velasco, R. C. L. (2022, October). STEM Preservice Teachers Engaging in a Community of Inquiry to Plan Integrated STEM Lessons. Research paper presentation at the School Science and Mathematics Association Convention. Missoula, MT.

Fujiwara, Y., **Velasco, R. C. L.**, Jones, L. K., & Hite, R. (2022, April). Examining Stereotypes of Scientists from Meme-Based GIFs Using Warmth and Competence Constructs. Roundtable presentation at the 2022 AERA Annual Meeting. San Diego, CA.

Hite, R., **Velasco, R. C. L.**, Johnson, L., Gottlieb, J., McNaughtan, J. (2022, April). Examining the Situative Progression of Teachers' Novice-to-Expert Development in Education Policy. Roundtable presentation at the 2022 AERA Annual Meeting. San Diego, CA.

Hite, R., Cruz, J., & **Velasco, R. C. L.** (2022, March). "We're Not that Different": Typologies of Guests' Relationships to Museum Objects via Mechanic Assemblage within a Dinosaur Gallery. Research paper presentation for the 2022 NARST Annual International Conference. Vancouver, BC, Canada.

Velasco, R. C. L., Fujiwara, Y., Jones, L. K., & Hite, R. (2022, March). Employing the Stereotype Content Model's Dimensions of Warmth and Competence to Identify and Categorize the Portrayal of Scientists in Meme-Based GIFs. Research paper presentation for the 2022 NARST Annual International Conference. Vancouver, BC, Canada.

Velasco, R. C. L. (2022, February). Virtual Microteaching Lessons with Mathematical Modeling: Exploring Preservice Math Teachers' TPACK Development. Presentation for the 26th Annual Conference of the Association of Mathematics Teacher Educators (AMTE). Las Vegas, NV.

- Velasco, R. C. L.** (2021, November). Considerations for Online STEM Teaching and Learning. Presentation for the Excellence in Teaching and Learning at Skoltech: Faculty Professional Development Series. Virtual.
- Velasco, R. C. L.** (2021, November). Supporting STEM Teaching and Learning Through Learning Assistants. Presentation for the Excellence in Teaching and Learning at Skoltech: Faculty Professional Development Series. Virtual.
- Velasco, R. C. L., & Hite, R.** (2021, July). Analyzing the Impacts of A Pandemic on STEM Education: Teacher Leader Advocacy in the Time of COVID-19. Research paper presentation for the 16th International Conference on Interdisciplinary Social Sciences. Virtual due to COVID-19 pandemic.
- Hite, R., Gottlieb, J., **Velasco, R. C. L.**, & Johnson, L. (2021, April). Shifts in Learning Assistants' Self-Determination From COVID-19 Disruptions to Calculus II Course Delivery. Research paper presentation for the American Educational Research Association (AERA) Conference. Virtual due to COVID-19 pandemic.
- Velasco, R. C. L., Hite, R.** (2020, March). Self-efficacy as Lens to Examine American K-12 STEM Teacher Leader Advocacy. Paper presented at the 3rd annual Education Graduate Student Organization Graduate Student Conference. Lubbock, TX.
- Velasco, R. C. L., Hite, R.** (2020, March). A Descriptive Case Study Analyzing Policy-based Advocacy and Self-efficacy Among K-12 STEM Teacher Leaders. Poster presented at the 19th Annual Graduate Student Research Poster Competition. Lubbock, TX.
- Velasco, R. C. L., & Hite, R.** (2019, October). Training Teachers as Advocates: Exploring Experiences and Acts of Advocacy Among the NSTA/NCTM STEM Teacher Ambassadors Program. Research poster presentation at the National STEM Education Research Summit, Raleigh, NC.
- Velasco, R. C. L.** (2019, October). Math Applications of Global Collaborative STEM Education. Paper presented at the 58th Northwest Mathematics Conference. Tacoma, WA.
- Wold-Brennon, R., **Velasco, R. C. L.**, & Nwosu, K. (2019, September). From Excitement to Encouragement: Support Teachers Require to Participate in Global Collaboration Projects. Paper presented at the 4th Annual Learning Sciences Graduate Student Conference. Evanston, IL.
- Velasco, R. C. L.** (2019, July). Applications of Global Collaborative STEM Education. Paper presented at the 8th Annual STEM Forum & Expo. San Francisco, CA.
- Velasco, R. C. L.** (2019, July). STEM Up Your Classroom. Panel discussion with NSTA/NCTM STEM Teacher Ambassadors at the 8th Annual STEM Forum & Expo. San Francisco, CA.

- Velasco, R. C. L.,** Jones, L. K., & Fujiwara, Y. (2019, June). Perceived Math Self-Efficacy as Predictors of Pursuing a STEM Degree. Poster presented at the 8th IEA International Research Conference (IRC-2019). Copenhagen, Denmark.
- Velasco, R. C. L.** (2019, April). Experiences of Early Career Math Teachers on Guam: A Narrative Inquiry Approach. Poster presented virtually at the 2019 TTU Graduate Student Poster Contest. Lubbock, TX.
- Velasco, R. C. L.** (2019, March). Here to Stay: Lived and Learned Experiences of Early Career Math Teachers on Guam. Paper presented virtually at the 2019 TTU Education Graduate Student Organization. Lubbock, TX.
- Velasco, R. C. L.** (2018, October). Online (Re)Learning: Factors in Accessing the Internet to Aid in Mathematics Understanding. Paper presented virtually at the 2018 Asian Conference on Education. Tokyo, Japan.
- Velasco, R. C. L.** (2018, June). Estimating Sample Sizes in a Google Classroom: A Case of Global Collaborative Stem Education. Paper presented virtually at the 2018 European Conference on Education. Brighton & Hove, U.K.
- Velasco, R. C. L.,** & Fujiwara, Y. (2018, April). Learning Together: Collaboration on Mathematical Pedagogies in the Virtual and Global Community. Paper presented at the National Council of Teachers of Mathematics Annual Meeting and Exposition 2018. Washington, D.C.
- Fujiwara, Y., & **Velasco, R. C. L.** (2018, April). Data Mining: A Global Project Example in Math. Paper presented at the National Council of Teachers of Mathematics Annual Meeting and Exposition 2018. Washington, D.C.
- Velasco, R. C. L.** (2018, April). (Un)Intentional Outcomes: Examining Perceptions of Guam's Revised Teacher Evaluation Program. Paper presented at the 2018 Graduate Student Research Conference. Lubbock, TX.
- Velasco, R. C. L.** (2018, April). Estimating Sample Sizes in a Google Classroom: A Case of Teacher Mentorship in Global Collaborative STEM Education. Poster presented at the 17th Annual Graduate Student Research Poster Conference. Lubbock, TX.
- Velasco, R. C. L.** (2017, April). Balloon-powered Vehicles: Global Collaborative STEM Education with Undergraduate Students from Taiwan. Paper presented at the annual meeting of the International Research Conference on Education, Language, and Literature, Tbilisi, Republic of Georgia.

Invited Talks:

- Velasco, R. C. L.** (2024, February). Invited opening session panelist for the 2024 AMTE Annual Conference. Orlando, FL.
- Velasco, R. C. L.** (2023, October). Reimagining and Rehumanizing Mathematics for a Math

- Teacher Education Program. Invited guest speaker for the OU Research in Undergraduate Mathematics Education (RUME) Seminar.
- Velasco, R. C. L.** (2023, September). Tapping into Students' Community Funds of Knowledge to Inform Mathematical Learning. Invited guest speaker for a virtual math summit hosted by the National Center for Education Statistics. Virtual presentation over Zoom.
- Velasco, R. C. L.** (2023, March). Mapping our Practice Towards Rehumanizing Mathematics. Invited guest speaker for the Teachers Development Group's (TDG) 2023 Leadership Seminar on Mathematics Professional Learning in Portland, OR.
- Velasco, R. C. L.** (2023, March). Academic Job Market: Getting the Initial Interview. Invited guest speaker for the Education Graduate Student Organization at Texas Tech University.
- Velasco, R. C. L.** (2022, December). Invited mini teaching lesson for the Dove Science Academy High School Campus Visit at the University of Oklahoma.
- Velasco, R. C. L.** (2022, November). Ongoing Critical Self-Reflection. Invited keynote speaker for the University of Iowa's Teaching Elementary Learners I course.
- Velasco, R. C. L.** (2022, October). Invited guest panelist for JRCoE Academic Job Search Series: "Ask Me Anything."
- Velasco, R. C. L.** (2021, October). Invited guest panelist for the Educator Track of the Society of Hispanic Professional Engineers Conference.
- Velasco, R. C. L.** (2021, October). Invited guest faculty panelist for Top Scholar Visit Day at the University of Iowa.
- Velasco, R. C. L.** (2021, September). Where I(s)land. Invited guest speaker for the University of Iowa's UHR-DEI Listening Post Speaker Series.
- Velasco, R. C. L.** (2021, September). Invited guest speaker for the Alabama PAEMST alumni meeting.
- Velasco, R. C. L.** (2021, July). Next Generation STEM Mentoring: An Important Lever in Elevating the Profession. Invited panelist for the STEM Teacher Leadership Network. <https://stemtlnet.org/theme/july2021-experpanel>
- Velasco, R. C. L.** (2021, February). Leveraging Twitter to Build Preservice Teachers' Professional Learning Network. Invited presentation for the 2021 IA AMTE Virtual Conference: Math Teacher Education in the Time of Pandemics.
- Velasco, R. C. L.** (2020, June). STEM Doctoral Program Experiences at TTU. Invited presentation hosted by Dr. Gina Childers via Zoom at Texas Tech University.

Velasco, R. C. L. (2020, May). Exploring Beliefs about Teacher Education through Experience and Scholarship. Invited presentation hosted by Dr. Aaron Zimmerman via Zoom at Texas Tech University.

Velasco, R. C. L. (2020, April). Planning, Preparation, Position: Experiences Navigating the Academic Job Market. Invited presentation hosted by Education Graduate Student Organization at Texas Tech University.

Velasco, R. C. L. (2020, April). It's a Different World, We Live In/Out. Invited talk for Culture and Diversity course at Tarleton State University.

Velasco, R. C. L. (2020, April). Mentorship Matters: Cultivating the Next Generation of Scholars. Invited presentation hosted by the AERA Graduate Student Council at the 2020 AERA Annual Meeting in San Francisco, CA.

Velasco, R. C. L. (2020, March). Conversations with the Next Generation. Invited talk by the First-Generation Transition & Mentoring Programs under the Division of Diversity, Equity, & Inclusion at TTU.

Velasco, R. C. L. (2019, January). Edible Lunar Vehicle: Globalizing STEM Education Collaboration. Invited webinar hosted by the 2018 STEM Teacher Ambassadors.

Colby, J. W., Smith, W., Overstake, C., & **Velasco, R. C. L.** (2018, January). National Mentoring Month 2018. Invited webinar for Presidential Awardees of Excellence in Mathematics and Science Teaching hosted by the National Science Foundation.

Invited Workshops:

Velasco, R. C. L. (2020, August). STEM Education Professional Development. Professional development workshop hosted by STEM Revolution. Dubai, U.A.E.

Velasco, R. C. L. (2019, July). Applications of Global Collaborative STEM Education. Share-a-thon exhibit. 8th Annual STEM Forum & Expo. San Francisco, CA.

Velasco, R. C. L., & Espina, T. (2013, January). Teaching and Behavior Management Strategies. Invited workshop. Yap International Christian School. Colonia, Yap.

Expert or Media Contribution:

Luzniak, C. (2019). *Up for debate: Exploring math through argument*. Portsmouth, NH: Stenhouse Publishers. Acknowledgement.

GRANT WORK

Funded:

Amplifying Indigenous Micronesian Intelligence for Data Science (MINDS) with Culturally Relevant Data. National Academy of Education, EMERG Program, \$113,000. (June 2024-May 2026).

Informing Equitable Mathematics Teaching and Learning through a Rehumanizing Mathematics Education Lens. Ed Cline Faculty Development Award. Internal. Funded by OU Faculty Senate, \$2,500.00. (Awarded, February 2023).

Coghill-Behrends, William (Co-Principal), Colombo, Mariana (Co-Principal), Velasco, Richard (Co-Principal), & McDermott, Mark (Co-Principal). *Supporting Excellence in STEM Teaching and Learning through Community of Practice.* Sponsored by American Councils for International Education, Private Industry, \$5,000.00. (July 2021–December 2021)

Hong, Dae (Co-Principal), Tomova, Maggy (Co-Principal), Hartzler, Julie (Co-Principal), Steffen, Patsy (Co-Principal), & Velasco, Richard Carlos L. (Co-Principal). *Recruiting and Training Community College and University Students to Become Culturally Responsive and Proficient Mathematics Teachers in Iowa.* Sponsored by National Science Foundation, \$1,424,399.00. (July 2019–July 2024)

Co-Principal Investigator (with Rebecca Hite, PI). *High Impact Spark Award: Impact of Learning Assistants in STEM Courses Sponsored by the Center for Transformative Undergraduate Experiences at TTU.* June 2020. Internal. Public. \$7,000.00

Education Graduate Student Organization Funding Grant. Sponsored by the Texas Tech University, Student Government Association, \$450. (Awarded, October 2018).

Not Funded:

CAREER: Preparing Elementary Preservice Teachers to Collaborate with Students' Families and Communities to Support Mathematical Teaching and Learning. National Science Foundation, CAREER. Submitted July 2023.

Velasco, Richard (PI), Feille, Kelly (Co-PI). *Norman Communities and Schools Together (NCAST) for STEM.* Oklahoma State Regents of Higher Education. Submitted November 2023.

Hong, Dae (Co-Principal Investigator), & Velasco, Richard (Co-PI). *Examining Calculus Instructors' Class Practices and Students' Learning Opportunities.* National Science Foundation, Improving Undergraduate STEM Education. Submitted July 2023.

Reimagining and Rehumanizing Mathematics for a Math Teacher Education Program. Junior Faculty Fellowship. OU Faculty Senate. Internal. Submitted Jan. 2023.

Co-Principal Investigator (with Lori Ihrig and Duhita Mahatmya, co-PIs). *Creating Ecosystems of Opportunities to Develop Rural STEM Talent and Grow Rural STEM Leaders.* National Science Foundation, Advancing Informal STEM Learning. Submitted Jan. 2022.

In Review:

Velasco, Richard (PI), Raymond, Kate (Co-PI), Savic, Milos (Co-PI), Mueller, Amy (Co-PI), and Reeder, Stacy (Co-PI). *University of Oklahoma's Rehumanizing (OUR) Mathematics Initiative: Preparing Culturally Responsive Math Teachers in Oklahoma.* National Science Foundation, Noyce Fellowship Program. Submitted August 2023.

UNIVERSITY TEACHING AND ADVISING

Teaching:

University of Oklahoma

Graduate Level:

- EDMA 5763 History of Mathematics for Educators (Spring 2023)

Undergraduate Level:

- EDMA 4353 4-8 Mathematics Concepts (Fall 2022, 2023; Spring 2024)
- EDMA 4233 Developing Problem-Solving Environments (Fall 2023)

University of Iowa

Graduate Level:

- EDTL:6765 STEM Independent Research

Undergraduate Level:

- EDTL:4779 Secondary School Science Practicum
- EDTL:4535 Methods: High School Mathematics
- EDTL:4092 Observation and Lab Practicum in Secondary Schools II
- EDTL:4091 Observation and Lab Practicum in Secondary Schools I
- EDTL:4087 Seminar Curriculum and Student Teaching
- EDTL:3534 Methods: Middle School Mathematics
- EDTL:3532 Introduction and Practicum: Mathematics
- EDTL:1129 First-Year Seminar: So You Want to Be a Teacher?
- EDTL:1050 Opportunities in Education

Texas Tech University

- TTU Groundwork Program

University of Guam

Graduate:

- PD894 Professional Development Seminar: Content Area Specialized Teachers,
- PD894 Professional Development Seminar: Math Area Specialized Teachers,

Undergraduate:

- MA151 Introductory Statistics
- MA110 Finite Mathematics
- MA084/LI Developmental Mathematics, Level I
- MA084/LII Developmental Mathematics, Level II

Guest Speaking

- **University of Oklahoma**, Norman, TX
 - ILAC 6013: Proseminar in Instructional Leadership and Academic Curriculum, *Fall 2023*
 - ILAC 6013: Proseminar in Instructional Leadership and Academic Curriculum, *Fall 2022*
 - ILAC 5970: Multicultural and International Children's Literature, *Fall 2022*

- **Texas Tech University**, Lubbock, TX
 - ESTM 6371: Effective Policy Advocacy in STEM Education, *Spring 2023*
 - ESTM 6371: Effective Policy Advocacy in STEM Education, *Spring 2021*
- **Tarleton State University**, Stephenville, TX
 - EDUC 2330: Diversity and Culturally Responsive Teaching for the Early Grades, *Spring 2020*

Advising:

Doctoral

- Mandy Howell, University of Oklahoma, Committee Member
- Julia Prise, University of Oklahoma, Committee Member
- Amber Stokes, University of Oklahoma, Committee Member
- Amal Al Shabibi, University of Oklahoma, External Committee Member
- Ruben Alcalá, University of Oklahoma, Graduate Representative (graduated SP23)
- Taylor Darwin, Texas Tech University, External Committee Member (graduated SP23)

Masters

- Ashly Powell, University of Oklahoma

SERVICE

Service in Academia:

Co-Editor for International Journal:

- *Electronic Journal for Research in Science & Mathematics Education*, 2024-present

Board Member:

- *Teachers Development Group*, 2023-present

Peer Reviewer for Publications Submissions

- *School Science and Mathematics*, 2023-present
- *Electronic Journal for Research in Science & Mathematics Education*, 2021-present
- *Mathematics Teacher: Learning and Teaching PreK-12*, 2018-present
- *AERA: American Educational Researcher Association*, graduate student reviewer, 2018-2020

Peer Reviewer for Professional Conferences

- *LSGSC: Learning Sciences Graduate Student Conference*, Northwestern University, Evanston, IL, 2019
- *EGSO GSC: Education Graduate Student Graduate Student Conference*, Texas Tech University, Lubbock, TX, 2018-Present

University Committees

- JRCoE Equity Committee, *University of Oklahoma*, 2023-present
- Library Liaison, *University of Oklahoma*, 2023-present
- Elementary Education Certification Committee, *University of Oklahoma*, 2022-present
- Math Education Program Coordinator, *University of Oklahoma*, 2022-present

- Department of Teaching and Learning Graduate Student Research Award Reviewer, *University of Iowa*, 2021
- Iowa Higher Education Mathematics Transition Advisory Council (IHEMTAC), *The Jacobson Institute for Innovation in Education at Grand View University*, 2021-present
- Art Education Faculty Search Committee, *University of Iowa*, 2020-2021

Graduate Student Organizations

- *AERA GSC: AERA Graduate Student Council*, 2019-2020
 - Officer position, Web Secretary
 - Conference committee meeting for AERA annual meeting planning, Oct. 24-26, 2019
- *EGSO: Education Graduate Student Organization*, 2018-present
 - Executive board member, Treasurer, 2018-present
 - Editorial board member, 2018-2019
 - EGSO graduate student conference planning committee member, 2019-2020
 - Mentorship committee member, 2019-present
 - Mentee: Feliza Mercado, Ph.D. student, education policy and leadership
 - Mentee: Brianna Sanchez, Master's student, education
 - EGSO conference panel facilitator, 2020
- *TTU GAAC: Graduate Academic Affairs Committee*, 2019-present
 - Graduate student representative

Graduate Student Mentorship

- *Mentee:* Yujiro Fujiwara, Ph.D. student, curriculum and instruction
- *Mentee:* Heather Wygant, Ph.D. student, curriculum and instruction

Service in Practitioner Teaching:

PAEMST Alumni Representative for US Territories

National Science Foundation, 2021-2023

Virtual Science Fair Judge

Christ the King Diocesan High School, Lubbock, TX, 2022

Presidential Award for Excellence in Mathematics and Science Teacher (PAEMST)

National Selection Committee Panelist, 2018

Educational Testing Services (ETS)

PRAXIS II Assessment Panelist, 2012

AWARDS & RECOGNITION

Research:

- **2023 NSF Quantitative Research Methods for STEM Education Scholars Program**
Awarded by NSF via University of Maryland
- **2023 STaR Fellows Program**

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- Awarded by the Association of Mathematics Teacher Educators
- **2021 Emerging Scholar Award**
Awarded by the Common Ground Research Networks
- **2020 Horn Professors Graduate Achievement Award**
Awarded by the Paul Whitfield Horn Professors at Texas Tech University (\$750)
- **2019 Three-Minute Thesis Competition**
Finalist, presentation title: *Voices for STEM Education*
- **2019 Texas Tech University (TTU) Graduate Student Research Poster Competition**
1st Place Winner in the Distance Learning Division
Project: Experiences of Early Career Math Teachers on Guam: A Narrative Inquiry Approach
- **2018 The Honor Society of Phi Kappa Phi**
Winner of the Love of Learning Award (\$500)
- **2017-2019 Helen DeVitt Jones Foundation**
Recipient of the Helen DeVitt Jones Part-time Graduate Fellowship (\$2000/year)
- **2017-2019 TTU College of Education (COE) Graduate Scholarship**
Awarded a COE designated scholarship based on merit (\$1000/semester)

Teaching:

- **2019-2020 WSECU, 710 ESPN Seattle, Seattle Mariners Radio Network**
Recipient of the Teacher of the Week award in Seattle, WA
- **2019-2020 Albert Einstein Distinguished Educator Fellowship (AEF) Program**
Semi-finalist of a Congressional Einstein Fellowship in Washington, DC
- **2019 100Kin10**
Selected as a STEM Teacher Forum leader
- **2018 STEM Teacher Ambassador Program**
Selected as a STEM Teacher Ambassador for the National Science Teachers Association (NSTA)/National Council of Teachers of Mathematics (NCTM)
- **2016 The White House Office of Science and Technology Policy (OSTP) and the National Science Foundation (NSF)**
Recipient of the 2014 Presidential Award for Excellence in Mathematics and Science Teaching (PAEMST), K-6 Mathematics for U.S. Territories
- **2016 KUAM News Feature**
A Touch of Class: Richard Velasco. Retrievable at <https://youtu.be/ud0o737pxjk>
- **2015-2016 Guam Department of Education (GDOE)**
Awarded the Middle School Teacher of the Year of GDOE, GU
- **2015-2016 GDOE**
Finalist for Teacher of the Year of GDOE, GU
- **2012 UOG Alumni Highlight**
UOG Triton Stories: Richard Velasco. Retrievable at <https://youtu.be/agMjtjDSFNs>

Service:

- **2015 Association of Government Accounts (AGA) Guam Chapter**
Recipient of the Who's Who Under 40 in the Government of Guam award

PROFESSIONAL MEMBERSHIPS & CERTIFICATIONS

Professional Memberships:

Association of Mathematics Teacher Educators (AMTE), 2021-present
Iowa Association of Mathematics Teacher Educators (IA-AMTE), 2020-present
American Educational Research Association (AERA), 2017-present
Council of Presidential Awardees of Mathematics (CPAM), 2016-present
Society of Elementary Presidential Awardees (SEPA), 2016-present
Washington Education Association (WEA), 2016-present
National Science Teachers Association (NSTA), 2016-2017
National Council of Teachers of Mathematics (NCTM), 2009-present
American Federation of Teachers (AFT), 2008-present
Guam Federation of Teachers (GFT), 2008-2016

Professional Certifications:

National Board for Professional Teaching Standards® (NBPTS) Certification
(Mathematics, Early Adolescence) 2018-2023

Washington Office of Superintendent of Public Instruction Education Certificate
(Mathematics, 6-12) 2016-2020

Guam Commission for Educator Certification Teaching Certificate
(Mathematics, 6-12) 2015-2025

Professional References

1. Rochelle Gutiérrez, Ph.D.

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4. Lia Plakans, Ph.D.

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5. Jessica Gottlieb, Ph.D.

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