

Ursula Nguyen

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EDUCATION

Ph.D., STEM Education 2023

The University of Texas at Austin, Austin, TX

Dissertation: *Beyond Engineering Interest: Examining the Gendered Experiences of Young Women in Engineering*

Committee: Catherine Riegler-Crumb (chair), Tia Madkins, Carlos Nicolas Gomez Marchant, and Roberta Rincon

B.S. with Honors, Biomedical Engineering 2014

The University of Texas at Austin, Austin, TX

Minor: Spanish

PROFESSIONAL APPOINTMENTS

Assistant Professor 2023 – Present

Department of Teaching, Learning & Teacher Education, University of Nebraska-Lincoln

Graduate Research Assistant 2017 – 2023

Department of Curriculum and Instruction, The University of Texas at Austin

Course Instructor 2019, 2022

Department of Curriculum and Instruction, The University of Texas at Austin

EDC 370E: Elementary Mathematics Methods (Undergraduate course)

Graduate Research Assistant Intern 2018 – 2022

Society of Women Engineers, Austin, TX

Teaching Assistant 2018, 2019, 2020, 2021

Department of Curriculum and Instruction, The University of Texas at Austin

EDC 385R: Introduction to Quantitative Research (Graduate course)

Co-Instructor 2019

Department of Curriculum and Instruction, The University of Texas at Austin

GEAR UP STEM Academy (Secondary mathematics course)

Mathematics Lead Teacher 2015 – 2016

Neff Early Learning Center, Houston Independent School District, Houston, TX

Teacher, First Grade Bilingual Math and Science/ESL 2014 – 2016

Neff Early Learning Center, Houston Independent School District, Houston, TX

FELLOWSHIPS AND AWARDS

University Graduate School Continuing Fellowship, The University of Texas at Austin, 2022-2023 (\$46K)

Alexander Caswell Ellis Fellowship in Education, College of Education, The University of Texas at Austin, 2018-2022 (\$5K)

Psychology of Mathematics Education, North American chapter (PME-NA) 2018 Registration Scholarship, 2018 (\$450)

Graduate School Mentoring Fellowship, The University of Texas at Austin, 2016-2017 (\$40K)

Top Eagle Award, Neff Early Learning Center, September 2015

Amgen Fellowship, 2014-2016 (\$3K)

PUBLICATIONS (REFEREED)

Published Manuscripts

Nguyen, U., Russo-Tait, T., Riegle-Crumb, C., & Doerr, K. (2022). Changing the gendered status quo in engineering? The encouraging and discouraging experiences of young women with engineering aspirations. *Science Education*, 106(6), 1442-1468.

<https://doi.org/10.1002/sce.21748>

2 Year Impact Factor: 6.000

Fernandez, L., **Nguyen, U.**, & Callahan, R. (2022). Learners' mathematics identity and achievement: Where does the teacher come in?. *International Journal of Mathematical Education in Science and Technology*, 1-26.

<https://doi.org/10.1080/0020739X.2022.2117657>

2 Year Impact Factor: 1.080

Riegle-Crumb, C., Russo-Tait, T., Doerr, K., & **Nguyen, U.** (2022). Critical consciousness of gender inequality: Considering the viewpoints of racially diverse high school girls with engineering aspirations. *Sociological Perspectives*, 1-23.

<https://doi.org/10.1177/07311214221112448>

2 Year Impact Factor: 1.780

Nguyen, U., & Riegle-Crumb, C. (2021). Who is a scientist? The relationship between counter-stereotypical beliefs about scientists and the STEM major intentions of Black and Latinx male and female students. *International Journal of STEM Education*, 8(28), 1-18.

<https://doi.org/10.1186/s40594-021-00288-x>

2 Year Impact Factor: 5.789

Riegle-Crumb, C., Morton, K., **Nguyen, U.**, & Dasgupta, N. (2019). Inquiry-based instruction in science and mathematics in middle school classrooms: Examining its association with students' attitudes by gender and race/ethnicity. *AERA Open*, 5(3), 1-17.

<https://doi.org/10.1177/2332858419867653>

2 Year Impact Factor: 3.427

Manuscripts in Progress

Nguyen, U. (In preparation). The gender identities of young women in undergraduate engineering majors. Manuscript to be submitted to a peer-reviewed STEM Education journal.

Nguyen, U. & Riegler-Crumb, C. (In preparation). The relationship between gender typicality and engineering aspirations. Manuscript to be submitted to a peer-reviewed STEM Education journal.

Fernandez, L. & **Nguyen, U.** (In preparation). Pre-Service Teachers' Beliefs about Mathematics Teaching and Learning and Mathematics Education of English Learners. Manuscript to be submitted to a peer-reviewed Mathematics Education journal.

Conference Proceedings

Nguyen, U., & Riegler-Crumb, C. (2022). Examining the association between peer support and young women's engineering identity and major intentions. *2022 ASEE Annual Conference & Exposition* (1-12). Minneapolis, MN. <https://peer.asee.org/41917>

Morton, K., & **Nguyen, U.** (2018). The effects of inquiry-based pedagogy on students' attitudes in math. In T.E. Hodges, G. J. Roy, & A. M. Tyminski, (Eds.), *Proceedings of the 40th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1147). Greenville, SC: University of South Carolina & Clemson University.

Nguyen, U., Kumaraswamy, N., & Markey, M. (2014). SU-E-I-53: Variation in measurements of breast skin thickness obtained using different imaging modalities. *Fifty-sixth annual meeting of the American Association of Physicists in Medicine* (pp. 42). Austin, TX.

CONFERENCE PRESENTATIONS (REFEREED)

Nguyen, U., & Riegler-Crumb, C. (2023, April 13 - 16). *Examining the Association between Undergraduate Women's Gender Identities and their Sense of Relatedness to Engineering*. Paper presentation at the 2023 American Educational Research Association (AERA) Annual Meeting, Chicago, IL.

Riegler-Crumb, C., **Nguyen, U., Russo-Tait, T., & Lyra, F.** (2023, April 13 - 16). *Examining Gender Essentialist Beliefs and their Association with Beliefs about Engineering Among College Engineering Majors*. Paper presentation at the 2023 AERA Annual Meeting, Chicago, IL.

Nguyen, U., & Riegler-Crumb, C. (2022, June 26 - 29). *Examining the Association between Peer Support and Young Women's Engineering Identity and Major Intentions*. Poster presentation at the 2022 American Society for Engineering Education (ASEE) Annual Conference, Minneapolis, MN.

Nguyen, U., & Riegler-Crumb, C. (2022, April 21 - 26). *All STEM Women Are Not the Same? Unpacking the Gender Identities of Women in Engineering*. Paper presentation at the 2022 AERA Annual Meeting, San Diego, CA.

- Nguyen, U.,** Russo-Tait, T., Riegle-Crumb, C., & Doerr, K. (2022, April 21 - 26). *Exclusionary and Inclusionary Experiences in College Engineering Classrooms: Implications for Women with Different Racial Identities*. Paper presentation at the 2022 AERA Annual Meeting, San Diego, CA.
- Nguyen, U.,** & Riegle-Crumb, C. (2022, March 27 - 30). *Gender Atypical? Examining the Gender Identities of Women in Engineering*. Paper presentation at the 2022 National Association for Research in Science Teaching (NARST) Annual International Conference, Vancouver, BC, Canada.
- Russo-Tait, T., Riegle-Crumb, C., **Nguyen, U.,** & Doerr, K. (2022, March 27 - 30). *Examining Exclusionary and Inclusionary College Classroom Experiences: Effects on Women in Engineering Majors by Race/Ethnicity*. Paper presentation at the 2022 NARST Annual International Conference, Vancouver, BC, Canada.
- Nguyen, U.,** Riegle-Crumb, C., Russo-Tait, T., & Doerr, K. (2021, April 8 - 12). *Pushing Past or Defending the Gender Boundary in Engineering: Who Supports or Deters Girls' Aspirations?* Paper presentation at the 2021 AERA Annual Meeting (Virtual Conference).
- Russo-Tait, T., Riegle-Crumb, C., Doerr, K., & **Nguyen, U.** (2021, April 8 - 12). *Understandings of Inequality: How Female Adolescents with Engineering Aspirations View Women's Underrepresentation*. Paper presentation at the 2021 AERA Annual Meeting (Virtual Conference).
- Russo-Tait, T., Doerr, K., Riegle-Crumb, C., & **Nguyen, U.** (2021, April 7 - 10). *Individualistic or Systemic? High School Girls Make Sense of Gender Inequality in Engineering*. Paper presentation at the 2021 NARST Annual International Conference (Virtual Conference).
- Riegle-Crumb, C., **Nguyen, U.,** & Russo-Tait, T. (2020, April 17 - 21). *Next-Generation Engineers? Examining Factors That Shape Young Women's Engineering Identity and Intentions*. Round table presentation at the 2020 AERA Annual Meeting, San Francisco, CA. <http://tinyurl.com/sernvk7> (Conference Canceled).
- Morton, K., & **Nguyen, U.** (2018, November 15 - 18). *The Effects of Inquiry-Based Pedagogy on Students' Attitudes in Math and Intent to Pursue STEM*. Poster presented at the 2018 North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA) Annual Conference, Greenville, SC.
- Nguyen, U.,** Riegle-Crumb, C., & Morton, K. (2018, October 11 - 13). *The Effects of Inquiry-Based Instruction on Middle School Students' Science and Mathematics Attitudes*. Poster presented at the 2018 Society for Advancement of Chicanos/Hispanics & Native Americans in Science (SACNAS) National Annual Conference, San Antonio, TX.
- Morton, K., Riegle-Crumb, C., & **Nguyen, U.** (2018, April 13 - 17). *Inquiry-Based Pedagogy and Middle School Students' Math Attitudes: An Examination by Gender and Race/Ethnicity*. Poster presented at the 2018 AERA Annual Meeting, New York City, NY.

Nguyen, U., Kumaraswamy, N., & Markey, M. (2014, July 20 - 24). *SU-E-I-53: Variation in Measurements of Breast Skin Thickness Obtained Using Different Imaging Modalities*. Poster presented at the 2014 American Association of Physicists in Medicine (AAPM) Conference, Austin, TX.

INVITED PRESENTATIONS AND PROFESSIONAL DEVELOPMENT WORKSHOPS

Nguyen, U. (2023, June 30). *The Proposal Playbook: Strategies and Secrets Revealed*. AERA Division K (Invited Webinar Panelist).

Nguyen, U. (2023, June 22). *Who Encourages and Discourages SWENext Adolescent Girls? Comparing Across Parent, Teacher, and Peer Sources*. Research Experiences for Teachers in Engineering (RET) Seminar, Cockrell School of Engineering, The University of Texas at Austin, Austin, TX (Invited Presentation).

Nguyen, U. (2023, May 8). *Examining the Experiences of Historically Excluded Students in STEM Education*. Mathematics Education Doctoral Seminar (MEDS), University of Nebraska-Lincoln (Invited Virtual Presentation).

Nguyen, U. (2022, October 21). *The Developing Engineering Aspirations of SWENext Adolescent Girls: A Collaborative Study*. Society of Women Engineers (SWE) WE22 Annual Conference, Houston, TX (Invited Presentation).

Nguyen, U. (2022, September 28). *Testing Hypotheses about Differences between Two Populations*. EDC 385R: Introduction to Quantitative Research, The University of Texas at Austin, Austin, TX (Guest Lecturer Presentation).

Riegle-Crumb, C., & **Nguyen, U.** (2021, March 23 - 25). Interactive session: *What Research Tells Us About Supporting the STEM Ambitions and Success of Girls and Women of Color*. Women of Color STEM Entrepreneurship Conference (Invited Virtual Conference).

Nguyen, U. (2020, December 17). *Noche de Ciencias: Applying to College*. Parent workshop presented at the Society of Hispanic Professional Engineers (SHPE) – Austin Professional Chapter, Austin, TX (Virtual Webinar).

Nguyen, U. (2020, September 15). *The Importance of Minoritized Folx in STEM*. Webinar talk presented at the Society of Hispanic Professional Engineers (SHPE) – Austin Professional Chapter, Austin, TX (Invited Virtual Webinar).

Nguyen, U., & Riegle-Crumb, C. (2020, August 28). *Who is a Scientist? Counter-Stereotypical Views and the STEM Major Intentions of Black and Latinx Students*. Research brief presented at the Women of Color in Computing Collaborative Virtual Summit (Invited Virtual Presentation).

Riegle-Crumb, C., & **Nguyen, U.** (2019, July 9). *The Developing Aspirations of Girls of Color Towards Computer Science: A Comparative Examination of the Role of Teachers, Peers, and STEM Stereotypes*. Research brief presented at the Kapor Center's Women of Color in Computing Collaborative Convening, Oakland, CA (Invited Presentation).

Nguyen, U. (2019, April 13). *Un Sábado Gigante in Engineering: Engineering Design Challenges*. Workshop presented at the Society of Hispanic Professional Engineers (SHPE) – Austin Professional Chapter, Austin, TX.

Russo-Tait, T., & **Nguyen, U.** (2018, June 28 - 29). *Equity in the STEM Classroom: Strategies for Inclusion*. Workshop presented at the UTeach STEM Educators Conference, The University of Texas at Austin, Austin, TX.

ACADEMIC SERVICE

Journal Reviewer , <i>International Journal of STEM Education</i>	Fall 2020-Present
Journal Reviewer , <i>Journal for STEM Education Research</i>	Spring 2021-Present
Journal Reviewer , <i>Science Education</i>	Spring 2022-Present
Journal Reviewer , <i>Journal of Research in Science Teaching</i>	Spring 2023-Present

SCHOOL AND DEPARTMENT SERVICE

Co-founder of the STEM Education Graduate Student Organization (STEM ED GSO)
Graduate Student Mentor for first-year doctoral student
Graduate Student Leader, College of Education, Welcome Event
Graduate Student Representative, College of Education, Tenure-Track Faculty Search Committee
Graduate Student Facilitator, College of Education, UT Daring Dialogue

PROFESSIONAL MEMBERSHIPS

American Educational Research Association (AERA)
American Society for Engineering Education (ASEE)
National Association for Research in Science Teaching (NARST)
Psychology of Mathematics Education, North American chapter (PME-NA)

PROFESSIONAL CERTIFICATIONS

Standard Texas Educator Certificate, EC-6 Bilingual Generalist – Spanish, Texas, since June 2015
Inclusive Classroom Leadership Certificate, The University of Texas at Austin, Austin, TX, Fall 2018
Teacher Preparation Series Certificate, Faculty Innovation Center, The University of Texas at Austin, Austin, TX, Fall 2018
Baylor Saturday Science Series (BSSS), Houston ISD and Baylor College of Medicine, Houston, TX, Fall 2015
Rice University School Mathematics Project (RUSMP) Summer Campus Program, Rice University, Houston, TX, Summer 2015
LASER i3 Kit Training, Smithsonian Science Education Center – Houston Regional Center, Houston, TX, Fall 2014

LANGUAGE PROFICIENCY

Native Spanish speaker; Oral, reading, and written fluency in Spanish