

Uchenna Emenaha Ph.D.

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EDUCATION

- 2020** **Ph.D., Curriculum and Instruction**, Science Education
College of Education, University of Houston, Houston, TX
- 2015** **Master of Education**, Health Education
College of Education & Human Development, Texas Southern University,
Houston, TX
- 2004** **Bachelor of Science, Biology**
College of Science & Math, Houston Baptist University
- 2004** **Bachelor of Science, Communication**
College of Humanities, Houston Baptist University

ACADEMIC POSITIONS

- 2020-current **Assistant Professor**, University of Texas at San Antonio
- Summer 2020 **Instructor**, American Museum of Natural History
- 2018-2020 **Instructor**, *teach*Houston Program, University of Houston
- 2016-2018 **Graduate Teaching Assistant**, College of Education, University of Houston
- 2016-2020 **Graduate Research Assistant**, University of Houston
- 2015-2016 **Adjunct Professor**, Relay Graduate School of Education

CERTIFICATIONS/ K-12

- Grade 4th-8th Secondary Science Teacher Certification, State Board of Education
- Grade 8th-12th Secondary Life Science Teaching Certification, State Board of Education
- Grade 4th-12th English as a Second Language Teaching Certification Supplement, State Board of

Education

RESEARCH

My research is grounded in the use of culturally responsive pedagogy (CRP), to develop students' scientific argumentation skills, reify students' Science/STEM identities, and address racial bias through scientifically accurate teaching of race and human diversity at the secondary level. At its core, my work is focused on bridging the gap between social issues, science instruction, and students' lived experiences.

PUBLICATIONS-PEER-REVIEWED/REFEREED

Emenaha, U. (2020). Using pop culture to teach genetics: Teaching patterns of inheritance using students' favorite celebrity couples. *The Science Teacher*, 88(1), 46-50.

Emenaha, U. & Perry, A. A. (2019). Lights, camera, and a call to action: Women in media help promote science identity in female students. *Journal of Virginia Science Education*

Emenaha, U. (2019). Learning to argue like a scientist when discussing social issues. *The Science Teacher Bulletin*, 82(2), 1-5.

Emenaha, U. (2018). The science of fake news: Use of socio-scientific issues in the modern science classroom. *The STATellite*, 61(2), 21-22.

Zhang, J. Wong, S., Relyea, J. E., Wui, G., & **Emenaha, U.** (2017). Designing a socio-scientific issue curriculum on space exploration: Dialogic inquiry approach for English learners. *English in Texas*, 47(2), 7-12.

PRESENTATIONS-PEER-REVIEWED/REFEREED

International Conferences

Nguyen, H., **Emenaha, U.**, Evans, P., & McAlister-Shields, L. (2020). Enacting potential: Examining impacts of *teachHOUSTON* program on Asian American pre-service STEM teacher. International Association of Asian Studies, Dallas, Texas.

National Conferences

- Emenaha, U.** (2020). But I read it on the internet: Designing lessons to support students scientific reasoning skills. Annual Conference for Middle Level Education (AMLE), Baltimore, MD, Virtual Conference.
- Emenaha, U. & Perry, A. A.** (2020). STEM Women on Film: Leveraging the Scully Effect in the Middle School Classroom. Annual Conference for Middle Level Education (AMLE), Baltimore, MD, Virtual Conference.
- Emenaha, U.** (2020). Supporting understanding of human diversity through classroom discourse. National Science Teachers Conferences on Science Education, Boston, Massachusetts. (Conference Cancel)
- Emenaha, U., Ademosu, K., & Evans, P.,** (2019). A lesson on race and human diversity: Culturally relevant pedagogy in biology classes. National Association of Biology Teachers (NABT) Professional Development Conference, Chicago, Illinois.
- Emenaha, U. & Perry, A. A.** (2019). Lights, camera, and a call to action: How women in media promote science identity in young females. Pop Culture Association Conference (PCA), Washington, DC.
- Doherty, K. M., Emenaha, U., & Perry, A. A.** (2018). What Does This Have to Do with Me? Utilizing Culturally Relevant Pedagogy in Core Subjects. Annual Conference for Middle Level Education (AMLE), Orlando, Florida.
- Wong, S., Lionnel, R., Jennifer, R., & Emenaha, U.** (2018). Middle school science and mathematics teachers' understanding of the nature of science: A two-year study. American Education Research Association (AERA). New York, NY.
- Emenaha, U.** (2017). Increasing minority participation in STEM through mentorship. National Conference of Race and Ethnicity (NCORE). Ft. Worth, TX.

Emenaha, U. (2017). Effects of a genetic STEM camp on students' self-identity. National Consortium for Instruction & Cognition (NCIC). San Antonio, TX

State Conferences

Emenaha, U. & Perry, A. A. (2020). Film, Media, and Movies: The Scully Effect in the Middle School Science Classroom. Conferences for the Advancement of Science Teaching, (accepted).

Emenaha, U. (2019). Addressing misconceptions about race and genetics. Science Teachers Association of Texas, Dallas, Texas.

Evans, P., McAlister-Shields, L., Ademosu, K., & **Emenaha, U.**, (2019). Towards a liberatory pedagogy: Culturally responsive teaching of STEM teachers. Texas National Association for Multicultural Education Conference (TXNAME), Nacogdoches, Texas.

Evans, P., McAlister-Shields, L., **Emenaha, U.**, Nguyen, H., Ademosu, K., (2019). Lifting the tide: Preparing STEM pre-service educators for impactful secondary teaching careers. Greater Houston Area STEM Conference, Houston, TX.

Emenaha, U. (2018). Developing science identity with use of socio-scientific issues intervention lessons. Texas National Association for Multicultural Education Conference (TXNAME), Frisco, Texas.

Perry, A. A., **Emenaha, U.**, & Doherty, K. M., (2018). CRP and me: Applying culturally relevant pedagogical strategies to the core subjects. Texas National Association for Multicultural Education Conference (TXNAME), Frisco, Texas.

Emenaha, U. (2017). Peripheral involvement of outside STEM leaders in urban schools. University of Houston College of Education Research Symposium. Houston, TX

INVITED TALKS

Invited Presenter (November 2020). National Association of Science Teachers. #NSTAChats:

Evaluating Science Claims. Virtual Presentation

Invited Lead Presenter (November 2020). Conference for the Advancement of Science Teaching

Reimagining a Culture of Equality (RACE): Let's Talk About R.A.C.E.. Virtual Conference

Invited Presenter (October 2020) The University of Texas at San Antonio and American Institutes

for Research Pipeline Partnership Program, *Diversity and Inclusion in Education*. Virtual

Presentation

Invited Presenter (July 2020). *STEM Argumentation in a Virtual World*. teachHOUSTON

Graduate Teacher Professional Development. Virtual Presentation

Invited Panel Member (March 2017) *What is social justice education?* Houston Baptist University

African Student Association (ASA) Career Expo, Houston, TX

GUEST LECTURER

Emenaha, U. (2017) Teaching socio-scientific issues to bridge the gaps in science literacy for

English Language Learners. University of Houston.

Emenaha, U. (2016) Using inquiry to create student centered 5E physics lessons. University of

Houston

FELLOWSHIPS

2018 Science Communication Conference Student Fellow, Rice University

2016-2020 Graduate Tuition Fellowship, University of Houston

2002 Leadership Fellow, Alpha Kappa Alpha Sorority Inc.

AWARDS

2020 Student Scholar Award, National Conference on Race & Ethnicity (NCORE)

- 2017 GRaSP Talk Finalist, University of Houston
- 2017 Student Scholar Award, National Conference on Race & Ethnicity (NCORE)
- 2003 Congressional Recognition Community Service Award, Mayoral Office of Houston

GRANTS

- 2019 Research Travel Grant, College of Education-University of Houston (\$1000)
- 2018 Cullen Fellowship Grant, Graduate School- University of Houston (\$750)
- 2017 Research Travel Grant, College of Education-University of Houston (\$500)
- 2016 Alief Independent School District Campus Innovation Grant (\$1,000)
- 2011 Association of Texas Professional Educators (ATPE) Grant (\$1,000)

GRANT ACTIVITY

National Science Foundation DRK-12 Grant (to be submitted Oct. '20)
The Advancing Interdisciplinary Math and Science (AIMS) for Secondary English Learners
Role: Co-PI
Amount:

AERA Education Research Service Projects (ERSP) Initiative Grant Responded to the call on the
Systemic Racism Pandemics. (Unfunded)
Role: PI
Amount: \$5,000

SCHOLARSHIPS

- 2020 Dissertation Writing Course Scholarship (\$100)
- 2019 Faith Gladstone Marshall Endowment Scholarship, University of Houston (\$800)
- 2017 Don and Jacqueline Hawkins Endowed Scholarship, University of Houston (\$1,500)
- 2017 Eugene Chiappeta Texas Chemical Council Scholarship, University of Houston (\$1,500)
- 2002 Education Advancement Foundation Scholarship, Alpha Kappa Alpha Sorority Inc.
(\$1,000)

UNDERGRADUATE COURSES TAUGHT

Fall 2020 *IDS 3003 STEM in Social Context*, The University of Texas at San Antonio
2018-2020 *CUIN 1101 Teaching Science and Math*, teachHouston Program University of Houston

GRADUATE COURSE TAUGHT

Summer 2020 *Evolutionary Biology Seminar*, American Museum of Natural History
Fall 2015 *SCI 110 Introduction to Secondary Science Teaching*, Relay Graduate School of Education
Fall 2015 *SCI 111 Fundamentals of Inquiry*, Relay Graduate School of Education
Spring 2016 *SCI 112 Inquiry Through Labs*, Relay Graduate School of Education
Spring 2016 *SCI 113 Scientific Reading, Writing & Speaking*, Relay Graduate School of Education

K-12 TEACHING EXPERIENCE

2016-2017 K-6th Grade Virtual ESL Instructor-VIPKID, Beijing, China
2015-2016 9th Grade Biology Teacher-Hastings High School, Houston, TX
2012-2015 9th Grade Biology Teacher-Taylor High School, Houston, TX
2008-2012 7th Grade Science Teacher- O'Donnell Middle School, Houston, TX
2007-2008 5th Grade Teacher-Varnnett Charter School, Houston, TX

EDUCATIONAL CONSULTING

University of Texas at Austin, UTeach Program-Reviewed computer science course materials and provided detailed written feedback on the cultural responsiveness of the course content and strategies used to engage students.

Curriculum Development & Design

QBS Learning, Wrote instructional material for Life Science eLearning program aligned to NGSS and effective instructional pedagogy.

iSTEM Interactive Virtual Camp, Wrote Life Science lesson delivered through print and live media formats for middle level science grades.

SERVICE

College of Education & Human Development (COEHD)

2020 Search Advisory Committee Member for Dean of COEHD

Department of Interdisciplinary Learning & Teaching (ILT)

2020-2022 ILT Awards Committee Member

2020-current IDS Program Committee Member

State and National Service

2020 Building Community through Racial Equality Initiative, Science Teacher

Association of Texas (consultant)

2020 Session Moderator, National Association of African American Studies & Affiliates

2019 Volunteer, Conference for the Advancement of Science Teaching (CAST)

2019 Volunteer Judge, The Chiyoda Young Innovators' STEM Academy, University of Houston

2018 Volunteer, Research Convening the *Handbook of Research on Teachers*

of Color, University of Houston

2017 Social Media Chair, Science Teacher Association of Texas (STAT) State Conferences

AD-HOC REVIEWING

2020 Manuscript Reviewer, American Psychological Association, Division of Education

Research

2020 Proposal Reviewer, National Association for Research and Science Teaching (NARST)

2020 Proposal Reviewer, American Education Research Association (AERA)

2018 Manuscript Reviewer, Journal of Multicultural Affairs (JMA)

2017 Proposal Reviewer, Conference for the Advancement of Science Teaching (CAST)

2017 Proposal Reviewer, National Association of Research and Teaching (NARST)

COMMUNITY INVOLVEMENT

2016 & 2017 Founder/Organizer, Houston Health and Business Expo, Houston, TX

K-12 LEADERSHIP & SERVICE

2014-2015 Biology Team Lead

2013-2016 African Student Association Sponsor

2011-2012 7th Grade Cross Content Team Lead

2009-2010 Shard Decision Committee (SDC)

2010-2012 School Yearbook Sponsor

2009-2010 Pep Squad Sponsor

2008-2009 Science Club Sponsor

PROFESSIONAL AFFILIATIONS

National

American Education Research Association (AERA) – Learning Sciences SIG

National Association of Biology Teachers (NABT)

Association for Middle Level Educators (AMLE)

National Association for Research in Science Teaching (NARST)

National Science Teachers Association (NSTA)

National Association of Multicultural Education (NAME)

Regional

Nigerian American Multicultural Council (NAMC)

Science Teacher Association of Texas (STAT)