

CURRICULUM VITAE

Heather T. Essigmann, PhD, MPH

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Updated: October 16, 2025

ACADEMIC POSITIONS:

2022-Present **Assistant Professor of Instruction (non-tenure)**

Department of Epidemiology
UTHealth Houston School of Public Health
Houston, TX

2014-2021 **Graduate Teaching Assistant**

Department of Epidemiology
UTHealth Houston School of Public Health
Houston, TX

2014-2021 **Graduate Research Assistant**

Department of Epidemiology
UTHealth Houston School of Public Health
Houston, TX

EDUCATION:

2017-2021 **PhD, Epidemiology**

UTHealth Houston School of Public Health
Houston, TX.

Minors in Biostatistics & Environmental and Occupational Health Science

Thesis: At the intersection of inflammation and the mucosal microbiome: the impact of type 2 diabetes in Mexican American adults.

2014-2015 **MPH, Epidemiology**

UTHealth Houston School of Public Health
Houston, TX.

Thesis: Clostridium difficile quorum-sensing molecule alters the Staphylococcus aureus toxin expression profile.

2002-2006 **BA, Kinesiology**

Rice University
Houston, TX.

HONORS AND AWARDS:

- 2025 ***Recipient***
2025 Excellence in Academic Advising Award
Nominated and chosen by the UTHealth Houston SPH student body
- 2025 ***Nominee***
Faculty Awards: Excellence in Teaching Award
Nomination as a teaching team with Drs. Elena Feofanova and Audrey Choh by peers at UTHealth Houston SPH
- 2025 ***Nominee***
Palmer Beasley Innovation Award
Nomination as a teaching team with Drs. Elena Feofanova and Audrey Choh by peers at UTHealth Houston SPH
- 2024 ***Commencement Speaker***
Student Address
Delivered the Student Address UTHealth Houston School of Public Health 2024 Graduation Ceremony as the 2024 McGovern Outstanding Teacher of the Year Awardee
- 2024 ***Recipient***
2024 McGovern Outstanding Teacher of the Year Award
Nominated and chosen by the UTHealth Houston SPH student body
- 2024 ***Co-Recipient***
Teaching Innovation Award
Learning by Doing! Expanding, Harmonizing, & Sharing Effective Field Study Experiences for Epidemiology II
Office of Instructional Development, UTHealth Houston SPH
- 2023 ***Inaugural Co-Recipient & Lead Faculty***
Teaching Innovation Award
Building Strong Foundational Knowledge Through Student Engagement in Asynchronous Epidemiology I
Office of Instructional Development, UTHealth Houston SPH
- 2023 ***Inaugural Co-Recipient***
Teaching Innovation Award
Encouraging Student Engagement in Asynchronous Epidemiology II
Office of Instructional Development, UTHealth Houston SPH
- 2021 ***Recipient***
2021 Guy and Alissa McDaniels Memorial Scholarship
Student scholarship awarded for academic merit by the UTHealth Houston School of Public Health
- 2020 ***Recipient***
2020 Guy and Alissa McDaniels Memorial Scholarship
Student scholarship awarded for academic merit awarded by the UTHealth Houston SPH

2019	Recipient 2019 Guy and Alissa McDaniels Memorial Scholarship in Oncology and Infectious Disease Student scholarship awarded for academic merit awarded by the UTHealth Houston SPH
2018	Recipient Mercedes-Benz of Sugar Land Scholarship Student scholarship awarded for academic merit awarded by the UTHealth Houston SPH
2018	Recipient The Catherine Tyrrell Campbell Endowed Scholarship in Public Health Student scholarship awarded for academic merit awarded by the UTHealth Houston SPH
2017	Recipient Outstanding New PhD Student Scholarship Student scholarship awarded for academic merit and the potential to contribute to the field of public health awarded by the UTHealth Houston SPH Admission's Committee

TEACHING EXPERIENCE & CURRICULUM DEVELOPMENT OVERVIEW:

Instructor – UTHealth Houston School of Public Health

2025-2026 Academic Year

Introduction to Epidemiology (PHM 2612) <i>Lead Instructor – 100% effort; 47 students</i>	Fall 2025
Field Research methods in Epidemiology (PH 2615) <i>Lead Instructor – 100% effort; 21 students</i>	Fall 2025

2024-2025 Academic Year

Epidemiology I (PHM 2612) <i>Lead Instructor – 100% effort; 33 students</i>	Fall 2024
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Curriculum development: Re-organized or redesigned all lectures and course activities to 'flip the classroom' to promote (1) student engagement, (2) attendance, and (3) practical skills development and retention. Each module consists of a newly updated audiovisual presentation on a key aspect of epidemiology to be completed asynchronously and is paired with a newly created or updated in class activity to be done synchronously. Class activities vary widely to promote student interest and avoid stale classroom environments and include statistical software labs, use of publicly available data to answer a research question, practice problem walkthroughs, data presentation, and Epi article journal club activities.

Epidemiology II (PH 2615) <i>Lead Instructor – 100% effort; 21 students</i>	Fall 2024
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Curriculum development: Updated student assignment checklists created in Fall 2022 to rubrics for 3 purposes: (1) to promote transparency in grading and assignment scoring, (2) to provide students a single document at the end of the term with their entire project's feedback, and (3) to provide a

framework that will allow for students to more easily peer review each other's work as well as more insightfully appraise their own. As part of this effort, the course will now address previous student feedback to allow for more inter-group interaction.

Epidemiology I Online (PHM 2612)

Spring 2025

Lead Instructor – 100% effort; 43 students

Curriculum development: Educational assessment of previous innovation award was assessed this semester using an anonymous standardized survey available to all students in the course. 40 of the 43 students (93%) responded to the survey and results suggested all innovations were accepted, in particular the interactive discussion board assignment called "EpiConnections" designed to allow the student to apply their own personal/academic interests to course concepts and the pop-up practice questions created and embedded in all video lectures utilizing H5P software to promote learning engagement with the video lectures. Results were shared with the university-wide Teaching Innovation Award Sharing Session in June 2025.

Epidemiology Capstone Course (PH 2996)

Spring 2025

Lead Instructor – 33% effort; 37 students

Curriculum development: Created weekly announcements to provide weekly structure and guidance to students as they develop their own projects in the asynchronous environment. These can be shared, programed, and utilized across semesters for other faculty that teach this course.

Epidemiology I Online (PHM 2612)

Summer 2025

Co-Instructor – 50% effort; 28 students

Epidemiology II Online (PH 2615)

Summer 2025

Lead Instructor – 100% effort; 15 students

Curriculum development: Adapted the Environmental Audit Field Experience used in my Hybrid course to the fully online/asynchronous experience (previously adapted from a fully in-person course structure). This included additional training on virtual data collection best practice as well as instructions for collecting primary data collection in groups using virtual tools like Google Maps and Microsoft Teams. To ensure successful implementation of a fully virtual experience I created a summary re-cap assignment that allowed students to re-iterate what they learned, reflect on the benefits and weaknesses of virtual data collection, consider the utility of teamwork in the virtual space, and provide their feedback on the experience. All students (n=15) reported a positive experience with many encouraging the use of the experience for future asynchronous students.

2023-2024 Academic Year

Epidemiology I (PHM 2612)

Fall 2023

Lead Instructor – 100% effort; 33 students

Curriculum development: Developed a hybrid version of the course. To facilitate the partially asynchronous/partial synchronous nature of the course, I developed Check Your Learning Assignments for each week of the course to help students practice material covered in the asynchronous portion of the course and to ensure they were prepared to build on this material in the live sessions each week.

Epidemiology II (PH 2615)

Fall 2023

Lead Instructor – 100% effort; 20 students

Curriculum development: Was the member of a 3-member Teaching Innovation Award designed to improve student engagement in Epidemiology II online students. In partnership with the Office of Instructional Design, the team (1) made all lectures ADA accessible, (2) reorganized lecture slides to allow for the addition of closed captions, and (3) created and embedded practice questions in all video lectures utilizing H5P software to promote learning & engagement with the video lectures.

Epidemiology I Online (PHWM 2612)

Spring 2024

Lead Instructor – 100% effort; 33 students

Curriculum development: Was the lead faculty (with 2 peers) on a Teaching Innovation Award designed to improve student engagement in Epidemiology I online. In partnership with the Office of Instructional Design, we (1) made all lectures ADA accessible, (2) reorganized slides to allow for closed captions, (3) created an interactive discussion board assignment called “EpiConnections” designed to allow the student to apply their own personal/academic interests to course concepts, (4) created and embedded pop up practice questions in all video lectures utilizing H5P software to promote learning engagement with the video lectures. In addition, (5) I created a digital version of the self-guided introduction to statistical software Stata lab (developed in Fall 2022) used to help students (a) engage with statistical software to answer an epidemiological research question and (b) practice assessing for confounding and effect modification and presenting analysis results of a real-world data set. This includes a video introduction, a video walkthrough, and a practice assessment.

Epidemiology II (PH 2615)

Spring 2024

Lead Instructor – 100% effort; 21 students

Curriculum development: Adapted the Environmental Audit Field Experience to the Hybrid Epi 2 course structure. The purpose of the Field Study is to allow students to apply didactic coursework to a real-world data collection setting. Additionally, I developed an Environmental Audit Training video to simulate real-world onboarding to a field study. Also, to create learner equity and to facilitate the Environmental Audit Field Experience no matter a student’s physical location or abilities, I created a Virtual Data Collection version of the Environmental Audit Field Experience using Google Maps. Two students who would not have otherwise been able to participate were able to pilot this project.

Epidemiology I Online (PHWM 2612)

Summer 2024

Co-Instructor – 50% effort; 24 students

Epidemiology II Online (PHW 2615)

Summer 2024

Co-Instructor – 50% effort; 23 students

2022-2023 Academic Year

Epidemiology I (PHM 2612)

Fall 2022

Co-Instructor – 50% effort; 29 students

Curriculum development: (1) Developed new course lecture materials emphasizing student engagement using practical and diverse examples and embedded practice sets for half the course lectures. (2) Adapted and expanded a statistical software lab designed (adapted from Bing Yu, 2018) to introduce students to answering epidemiological questions using statistical software. The lab was created to be self-guided and allow students to work in groups to develop and practice the associated skills.

Epidemiology II (PH 2615)

Fall 2022

Lead Instructor – 100% effort; 20 students

Curriculum development: (1) Designed and re-organized the course around a drafting process to better reflect the real-world process of creating a Manual of Operating Procedure for a Field Study. Each week students draft 1 or more course assignments to be reviewed by their peer and/or the teaching team. In class students must then defend the choices they've made in the conduct of their proposed study and update the assignments to reflect the discussion and best practices before submitting the work for a grade. (2) Updated and improved clarity of existing course assignments (n=18) based on student feedback from the previous semester. Developed highly detailed checklists for each assignment (n=18) that students could use to evaluate their specific group project (MOP) and to improve learner outcomes. (3) Created practice assignments for use in class to help students practice Field Epidemiology core curriculum before applying to their own individual projects.

Epidemiology I (PHM 2612)

Spring 2023

Co-Instructor – 50% effort; 27 students

Curriculum development: (1) Created a summary assignment for the course modeled after the Epidemiology Preliminary Exam, whereby students read a paper before class and then work in groups to answer questions that cover all key course curriculum from across the term. (2) Completed the creation of the second half of the course lectures not completed in Fall 2022.

Epidemiology II (PH 2615)

Spring 2023

Lead Instructor – 100% effort; 21 students

Curriculum development: (1) Created 'Check Your Learning' Assignments for each week of the course to help students practice material covered in the asynchronous portion of the course and to ensure they were prepared to build on this material in the live sessions each week. (2) Further developed the in-class practice activities initiated in Fall 2022 to help improve peer-to-peer interaction in class and improved learning outcomes.

Epidemiology I Online (PHWM 2612)

Summer 2023

Co-Instructor – 50% effort; 22 students

Curriculum development: Further adapted all lectures developed during the Fall 2022 and Spring 2023 semesters in several ways: (1) Re-organized the lectures to incorporate the history of the methods in question to help student appreciate the context in which key epidemiological concepts/practices were developed to make concepts more approachable. (2) As part of this process, I adopted a more narrative style for the lectures and adapted the practice problems within lectures to be consistent with the historical topic discussed. (3) Additionally, all lectures were converted into audiovisual presentations to fit the online modality.

Epidemiology II Online (PHW 2615)

Summer 2023

Co-Instructor – 50% effort; 23 students

Curriculum development: Adapted the Manual of Operating Procedures Draft Process (created in Fall 2022) to both the shortened summer semester and to fully asynchronous course delivery.

2021-2022 Academic Year

Epidemiology III (PH 2715)

Spring 2022

Co-Instructor – 50% effort; 39 students

Curriculum development: Adapted and expanded a statistical software lab (adapted from D. Michael Hallman, PhD, 2025) designed to allow students to answer epidemiological research questions using software, specifically related to confounding, effect modification, stratified analysis, logistic regression using both categorical, linear, and original predictor variables. The lab was created to be self-guided and allow students to work in groups to develop and practice the associated skills. Created 2 associated homework assignments.

Epidemiology II Online (PHW 2615)
Co-Instructor – 50% effort; 40 students

Summer 2022

Guest Lecturer – UTHealth Houston School of Public Health

Tropical Infectious Diseases (PH 2800)
Course Instructor: Eric L. Brown, PhD
Topic: Filarial parasites of human and veterinary concern
Tropical Infectious Diseases Online (PH 2800)
Course Instructor: Eric L. Brown, PhD
Topic: Filarial parasites of human and veterinary concern

Fall 2022

Fall 2022

Graduate Teaching Assistant – UTHealth Houston School of Public Health

Tropical Infectious Diseases (PH 2800)
Course Instructor: Eric L. Brown, PhD
Tropical Infectious Diseases Online (PH 2800)
Course Instructor: Eric L. Brown, PhD
Immunology (PH 2800)
Course Instructor: Eric L. Brown, PhD & Cynthia Chappell, PhD
Immunology Online (PH 2800)
Course Instructor: Eric L. Brown, PhD
Medical Microbiology (PH 2800)
Course Instructor: Eric L. Brown, PhD & Charles Darkoh, PhD
Medical Microbiology Online (PH 2800)
Course Instructor: Eric L. Brown, PhD & Charles Darkoh, PhD
Epidemiology I (PH 2612)
Course Instructor: Bing Yu, PhD

Fall 2014 – 2021

Fall 2014 – 2021

Spring 2016, 2018, 2020

Spring 2018, 2020

Odd Spring 2015-2021

Spring 2019, 2021

Fall 2018, 2019

Secondary Teacher – Fort Bend Independent School District

Biology I
Facilitated State of Texas Biology curriculum for 165 students and prepared students for both End of Course Statewide examinations as well as Fall and Spring semester district-level assessments.

2011 – 2012

Independent Private Tutor

Private tutor

2008 – 2011

Topics: English literature, English language, French, Chemistry, Biology, Geometry, Algebra, Algebra II, AP and college essay writing, SAT prep., and study skills

Undergraduate Teaching Assistant – Rice University

Human Physiology

Spring 2005

Course Instructor: Brian Gibson, PhD

COMMITTEES AND ACTIVITIES:

UTHealth Houston School of Public Health

2025 - Present	Reviewer, School-wide Course Review for the Department of Epidemiology
2025 - Present	Chair, Doctoral Student Experience Sub-Committee on Advising and Mentoring
2024 - Present	Member, CEPH Accreditation Committee
2024 - Present	Member, Non-Tenure Track Faculty Advisory Group
2023 - 2025	Member, Faculty Council
2022 - Present	Member, Epi NTI Teaching Excellence Team
2022 - Present	Member, Epidemiology Preliminary Exam Committee
2022 - Present	Member, Epidemiology Curriculum Committee
2022 - Present	Member, Teaching Certificate Development Committee
2022	External Reviewer, Epidemiology Preliminary Exam Committee

SERVICE TO THE FIELD:

2025	Handling Editor <i>Frontiers: Public Health Education and Promotion</i>
2023 - Present	Review Editor <i>Frontiers: Public Health Education and Promotion</i>

Previously served as Peer reviewer for:

Journal of Clinical Investigation
Journal of Infection and Public Health

RESEARCH INTERESTS:

Methods in epidemiology, pedagogy, andragogy, infectious disease epidemiology, immunology, infectious disease transmission, parasitology, microbiomics.

PUBLICATIONS:

1. Alisa Nelson, Michelle Downey, Maya Murray, Brianna Weber, Erik Aguirre, Richard Scott McCrea, Jerrod Mims, Max Vigilant, Courtney Standlee, Kristy O. Murray, Alex Kneubehl, Eric L. Brown, **Heather T. Essigmann**, and Sarah M. Gunter. Emerging tick-borne disease risk in an urban center of Harris County, Texas. *Vector-Borne and Zoonotic Diseases*. **Accepted Aug 28**.
2. M. Jibowu, M. Vigilant, A. Costa-da-Silva, A. Nelson, **H.T. Essigmann**, E.L. Brown, and S.M. Gunter. Spatial and seasonal dynamics of mosquito species in Harris County, Texas, highlight risk of arbovirus introduction and transmission. *Sci Reports*. **2025**. 25;15(1):10330. DOI:10.1038/s41598-025-92175-6. PMID: 40133319
3. M. Jibowu, M. S. Nolan, R. Ramphul, **H. T. Essigmann**, A. O. Oluyomi, E. L. Brown, M. Vigilant, and S. M. Gunter. Spatial dynamics of *Culex quinquefasciatus* abundance: geostatistical insights from Harris County, Texas. *International Journal of Health Geographics*. **2024**. 23. 10.1186/s12942-024-00385-4.
4. E.L. Brown, **H.T. Essigmann**, K.L. Hoffman, J. Petrosino, G. Jun, S.A. Brown, D.A. Aguilar, and C.L. Hanis. *Curr. Microbiol.* C-reactive protein levels correlate with measures of dysglycemia and gut microbiome profiles. **2024**. 81:45 <https://doi.org/10.1007/s00284-023-03560-1>. PMID: 38127093.
5. E.L. Brown, **H.T. Essigmann**, K.L. Hoffman, A. Alexander, M. Newmark, Z.D. Jiang, J. Suescun, M.C. Schiess, C.L. Hanis, and H.L. DuPont. IgA-Biome profiles correlate with clinical Parkinson's disease subtypes. **2023**. *J. Parkinsons. Dis.* 13:501-213. PMID: 37212075
6. H.L. DuPont, J. Suescun, Z.D. Jiang, E.L. Brown, **H.T. Essigmann**, A.S. Alexander, A.W. DuPont, T. Iqbal, N.S. Utay, M. Newmark, and M.C. Schiess. Fecal microbiota transplantation in Parkinson's Disease - A randomized repeat-dose, placebo-controlled clinical pilot study. **2023**. *Front. Neurol.* <https://doi.org/10.3389/fneur.2023.1104759>. PMID: 36937520
7. **H.T. Essigmann**, C.L. Hanis, S.M. DeSantis, W.B. Perkison, D.A. Aguilar, G. Jun, D.A. Robinson, and E.L. Brown. Worsening glycemia increases the odds of intermittent but not persistent *Staphylococcus aureus* nasal carriage in two cohorts of Mexican American Adults. **2022**. 10(3). e0000922. Doi: 10.1128/spectrum.00009-22 *Microbiol. Spectr.* PMID: 35583495.
8. **H.T. Essigmann**, D.A. Aguilar, W.B. Perkison, K.B. Bay, M.R. Deaton, S.A. Brown, C.L. Hanis, and E.L. Brown. Epidemiology of antibiotic use and drivers of cross-border procurement in a Mexican American border community. *Front. Pub. Health*. **2022**. <https://doi.org/10.3389/fpubh.2022.832266>. PMID: 35356027.
9. **H.T. Essigmann**, K.L. Hoffman, J.F. Petrosino, G. Jun, D. Aguilar, C.L. Hanis, H.L. DuPont, and E.L. Brown. The impact of the Th17:Treg axis on the IgA-Biome across the glycemic spectrum. *PLoS One*. **2021**. 16(10):e0258812. PMID: 34669745.
10. E.L. Brown and **H.T. Essigmann**. Original antigenic sin: the downside of immunological memory and implications for COVID-19. *mSphere*. **2021**. 6(2):00056-21. DOI: 10.1128/mSphere.00056-21. PMID: 33692194.

11. E.L. Brown, **H.T. Essigmann**, K.L. Hoffman, N.W. Palm, S.M. Gunter, J.F. Petrosino, G. Jun, D. Aguilar, W.B. Perkison, C.L. Hanis, and H.L. DuPont. The impact of diabetes on the gut and salivary IgA Microbiomes. **2020**. *Infect. Immun.* 88(12). E00301-20. PMID: 32900816.
12. E. Israelsson, D. Chaussabel, R.S. Fischer, H.C. Moore, D.A. Robinson, J.W. Dunkle, **H.T. Essigmann**, S. Record, and E.L. Brown. Characterization of peripheral blood mononuclear cells gene expression profiles of pediatric *Staphylococcus aureus* persistent and non-carriers using a targeted assay. *Microb. Infect.* **2020**. S1286-4579(20)30144-1. PMID: 32758644.
13. S.M. Gunter, K.M. Jones, C.A. Seid, **H.T. Essigmann**, B. Zhan, U. Strych, M.E. Bottazzi, P.J. Hotez, and E.L. Brown. Mutations to cysteine residues in the *Trypanosoma cruzi* B-cell superantigen Tc24 diminish susceptibility to IgM-mediated hydrolysis. *J. Parasitol.* **2017**. PMID: 28581897.
14. C.L. Hanis, K. Garrett, **H.T. Essigmann**, D.A. Robinson, S.M. Gunter, A.G. Nyitray, and E.L. Brown. Household aggregation of *Staphylococcus aureus* by clonal complex and methicillin resistance profiles in Starr County, Texas. *Eur. J. Clin. Microbiol. Infect. Dis.* 36: 1787-1793. **2017**. PMID: 28474178.
15. **H.T. Essigmann**, C. Darkoh, Erin E. McHugh, and E.L. Brown. The *Clostridium difficile* quorum-sensing molecule alters the *Staphylococcus aureus* toxin expression profile. *Int. J. Antimicrobiol. Ag.* **2017**. <http://dx.doi.org/10.1016/j.ijantimicag.2017.01.001>. PMID: 28111286.
16. M. Reid, R. Fischer, N. Mannathoko, C. Muthoga, E. McHugh, **H.T. Essigmann**, E.L. Brown and A. Steenhoff. Prevalence of *Staphylococcus aureus* nasal carriage in HIV-infected and HIV-uninfected children in Botswana. *Am. J. Trop. Med. Hyg.* **2017**. PMID: 28167588.
17. S.M. Gunter, K.M. Jones, B. Zhan., **H.T. Essigmann**, K.O. Murray, M.N. Garcia, R. Gorchakov, M.E. Botazi, P.J. Hotez, and E.L. Brown. Identification and characterization of the *Trypanosoma cruzi* B-cell superantigen Tc24. *Am. J. Trop. Med. Hyg.* **2016**.94:114-121 DOI: 10.4269/ajtmh.15-0438.
18. E.L. Brown, P.E. Below, R.S. Fischer, **H.T. Essigmann**, H. Hu, C. Huff, A.D. Robinson, L.E. Petty, D. Aguilar, G.I. Bell, and C.L. Hanis. Genome-wide association study of *Staphylococcus aureus* nasal carriage in a community-based sample of Mexican-Americans in Starr County, Texas. *PLoS1*. **2015**. DOI: 10.1371/journal.pone.0142130.

INVITED PRESENTATIONS:

1. UTHealth Houston School of Nursing, **Course N7530: Analysis of the Context of Healthcare.** Discussed an introduction to Epidemiology to PhD Nursing students. Invited by Dr. Annalyn DeMello. 2 hours, September 2025.
2. **UTHealth Houston School of Public Health Teaching Innovation Award Sharing Session.** Presented two 30-minute talks on the experience and student outcomes of 2 2023-2024 Teaching Innovations Awards: *Building Strong Foundational Knowledge Through Student Engagement in Asynchronous Epidemiology I* & *Encouraging Student Engagement in Asynchronous Epidemiology II*

ABSTRACTS AND PRESENTATIONS:

1. **H.T. Essigmann**, N. Eugene, E.V. Feofanova, A.C. Sedory, E. Breckenridge, N. Hare-Everline, A.C. Choh. Teaching Effectively in a Mixed-Modality World. **1 hour Discussion session** presented at the 2025 Shine Academy Innovations in Health Sciences Education Conference. **2025**
2. E. V. Feofanova, A.C. Choh, **H.T. Essigmann**, N. Eugene, E. Breckenridge, N. Hare-Everline. Challenges to Student Engagement in Asynchronous Online Classrooms. **1 hour Discussion session** presented at the 2025 Shine Academy Innovations in Health Sciences Education Conference. **2025**
3. A. Sedory, E.V. Feofanova, **H.T. Essigmann**, N. Hare-Everline. Faculty Fusion: Supercharging Instruction through Interdepartmental Communication and Collaboration Among Instructional Faculty. **1 hour Discussion session** presented at the 2025 Shine Academy Innovations in Health Sciences Education Conference. **2025**
4. Schick, V., Quan Chen, FT., Ndambakuwa, Y., Weber, E., Mangrem, S., Brown, C., Brown, E., **Essigmann, H. T.**, Roberts, L., Troisi, C. GRASSROOTS HEALTH: Bringing Hepatitis B and C Education, Testing, Vaccination and Navigation to the Door of Individuals Living in Permanent Supportive Housing. Oral Presentation at the American Public Health Association Annual Meeting. Boston, MA. 2022.
5. H. Chen, H. Hu, L. E. Petty, D. A. Robinson, **H. T. Essigmann**, R. S. Fischer, C. L. Hanis, C. Huff, E. L. Brown, J. E. Below. Genome-wide association study of *Staphylococcus aureus* infection and clonal complexes in related samples from Starr County, Texas. American Society of Human Genetics. Vancouver, Canada, 18-22 October, **2016**.
6. M. Reid, R.S. Fischer, D.A. Robinson, X. Lou, N. Mannathoko, C. Muthoga, **H.T. Essigmann**, E.L. Brown, A. Steenhoff. Molecular characterization of *Staphylococcus aureus* colonizing HIV-infected adults in Botswana. 21st International AIDS Conference. Durban, South Africa, 18-22 July, **2016**.
7. S.K. Murphy, **H. T. Essigmann**, K.M. Jones, K.O. Murray, P.J. Hotez, and E.L. Brown. Identification and characterization of the *Trypanosoma cruzi* B-cell super antigen Tc24. American Association of Immunologists Annual Meeting. New Orleans, LA. May 8-12, **2015**.
8. S.K. Murphy, **H. T. Essigmann**, K.M. Jones, K.O. Murray, P.J. Hotez, and E.L. Brown. Identification and characterization of the *Trypanosoma cruzi* B-cell super antigen Tc24. Tropical Infectious Diseases Gordon Conference. Galveston, TX. March 8-12, **2015**.
9. E.L. Brown, S.K. Murphy, and **H. T. Essigmann**. 'Identification and characterization of the *Trypanosoma cruzi* Tc24 B-cell superantigen.' Forty-first Annual Fancy Gap Immunoparasitology Workshop, Wake Forest, Winston-Salem, NC, October 9-12, **2014**.

ACADEMIC ADVISING:

Academic Advisor – UTHHealth Houston School of Public Health, Department of Epidemiology

PhD Program

Sia Dauda	PhD	Houston Campus	2025- present
Oluwadotun Balogun	PhD	Houston Campus	2025- present

Rhoda Ojo	PhD	Dallas Campus	2024- present
MPH Program			
Rachel Eikenrieter	MPH	Online	2025- present
Syeda Akter	MPH	Dallas Campus	2025- present
Sharmin Mitha	MPH	Houston Campus	2025- present
Tori Nicholoso	MPH	Online	2025- present
Fahd Abdelall	MPH	Houston Campus	2025- present
Dasom Kim	MPH	Houston Campus	2025- present
Katherine Wang	MPH	Houston Campus	2024- present
Munachimso Nwankwo	MPH	Houston Campus	2024- present
Julia Kirk*	MPH	Houston Campus	2024- 2025
Shirindokht Shirazi*	MPH	Houston Campus	2024- 2025
Pakesh Raza	MPH	Houston Campus	2024- present
Ermelinda Garduno*	MPH	Dallas Campus	2024- 2025
Zarin Akhter*	MPH	Houston Campus	2024
Roshitha X. Ramisetty*	MPH	Houston Campus	2023- 2024
Hetal Talreja	MPH	Houston Campus	2023- present
Zainab Naeem	MPH	Houston Campus	2023- present
Deeksha Sharma*	MPH	Houston Campus	2023- 2025
Gunjan Bhatia	MPH	Houston Campus	2023- present
Aditya Mamlatdarna*	MPH	Houston Campus	2023- 2025
Alejandro Velez*	MPH	Online	2023- 2025
Maria Rivera	MPH	Online	2023- present
Lauren Koepfel*	MPH	Houston Campus	2022- 2024
Alisa Nelson*	MPH	Houston Campus	2022- 2024
Ruchi Nikhil Pavaskar*	MPH	Houston Campus	2022- 2024
Srusti Ganesh Bhalerao*	MPH	Houston Campus	2022- 2024
Wesley Baisley*	MPH	Online	2022- 2024
Ashley Nicole Boubel	MPH	Online	2022- present
Carolina Granada*	MPH	Houston Campus	2022- 2024
Zarna Lalwani*	MPH	Houston Campus	2022- 2024
Madhura Shah*	MPH	Houston Campus	2023
Carla Godoy*	MPH	Houston Campus	2022-2023

***Graduated**

Practicum Supervisor – UTHealth Houston School of Public Health, Department of Epidemiology

Sharmin Mitha	MPH	Houston Campus	Fall 2025
Katherine Wang	MPH	Houston Campus	Fall 2025
Gunjan Bhatia	MPH	Houston Campus	Summer 2025
Dason Kim	MPH	Houston Campus	Summer 2025
Alejandro Velez	MPH	El Paso Campus	Spring 2025
Pakesh Raza	MPH	Houston Campus	Spring 2025
Dhrishit Mangrolia	MPH	Houston Campus	Spring 2025
Kritika Suri	MPH	Houston Campus	Fall 2024

Shirindokht Shirazi	MPH	Houston Campus	Fall 2024
Hetal Talreja	MPH	Houston Campus	Fall 2024
Ermelinda Garduno*	MPH	Dallas Campus	Summer 2024
Alisa Nelson	MPH	Houston Campus	Summer 2024
Lauren Koeppe	MPH	Houston Campus	Summer 2024
Bansari Ranjani	MPH	Houston Campus	Summer 2024
Aditya Mamlatdarna	MPH	Houston Campus	Summer 2024
Carolina Granada	MPH	Houston Campus	Spring 2024
Roshitha X. Ramisetty	MPH	Houston Campus	Spring 2024
Wesley Baisley	MPH	Online	Fall 2023
Breana Alsworth	MPH	Austin Campus	Fall 2023
Ruchi Nikhil Pavaskar	MPH	Houston Campus	Summer 2023
Zarna Lalwani	MPH	Houston Campus	Summer 2023
Srusti Bhalerao	MPH	Houston Campus	Summer 2023
Lindsey Burcham	MPH	Houston Campus	Summer 2023
Katie Katsounas	MPH	Houston Campus	Spring 2023
Carla Godoy	MPH	Houston Campus	Spring 2023
Zehra Jaffari	MPH	Houston Campus	Fall 2022
Gerardo Dominguez-Diaz	MPH	Austin Campus	Fall 2022
Krithika Ganesh	MPH	Houston Campus	Summer 2022
Jenna Guzman	MPH	Austin Campus	Summer 2022

*beginning mid semester

**MS/MPH Thesis Committee Member or Intendent Learning Experience (ILE) Advisor – UTHHealth
Houston School of Public Health**

Hetal Talreja	MPH/ILE	Houston Campus	Fall 2025
Gunajn Bhatia	MPH/ILE	Houston Campus	Fall 2025
Shoaib Sarfraz	MS/Thesis	Houston Campus	Su-Fa 2025
Awanee Gaspar	MPH/Thesis	Houston Campus	Sp-Su 2025

Differences in breast cancer survival: association between screening uptake, healthcare access, and mortality in Singaporean women (2012-2023)

Vyoma Soni	MPH/ILE	Houston Campus	Spring 2025
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Exploring the Association Between Central Line-Associated Bloodstream Infections Reported by Texas Acute Care Hospitals in 2023 and Statewide Population Demographics

Deeksha Sharma	MPH/ILE	Houston Campus	Spring 2025
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Spatial Distribution of Federally Qualified Health Centers and Health Care for Homeless Clinics in Relation to Homeless Population

Julia Kirk	MPH/ILE	Houston Campus	Spring 2025
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Recommendations for Screening and Treatment of Congenital Syphilis in Partnership with the Texas Collaborative for Healthy Mothers and Babies

Shirindokht Shirazi	MPH/ILE	Houston Campus	Spring 2025
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The Prevalence and Etiology of Syndromic and Isolated Facial Asymmetry or Hemifacial Microsomia (HFM)

Zarna Lalwani	MPH/ILE	Houston Campus	Fall 2024
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Transforming Public Health Data into Actionable Insights with Geographic Information Systems (GIS)

Lauren Koeppe	MPH/ILE	Houston Campus	Fall 2024
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A Critical Review of the CDC's Vessel Sanitation Program's Cruise Ship Guidelines

Ruchi Nikhil Pavaskar	MPH/ILE	Houston Campus	Summer 2024
<i>Assessing the magnitude and impact of food and nutrition insecurity in cancer patients</i>			
Zarin Akter	MPH/ILE	Houston Campus	Spring 2024
<i>Mental Healthcare Service Usage following Disaster in Mexico: ABC Daycare Fire</i>			
Alisa Nelson	MPH/Thesis	Houston Campus	2023 - 2024
<i>Thesis: Tick-Borne Pathogen Surveillance in Harris County: Spotted Fever Group Rickettsia</i>			
Zehra Jaffari	MPH/ILE	Houston Campus	Spring 2023
<i>Applying evidence-based management practices to make recommendations to an organization facing a healthcare problem: Candida auris</i>			

Doctoral Dissertation Committee Member – UTHealth Houston School of Public Health

Atheer Jaffar	PhD Epidemiology	2025- present
Angela Zieba	PhD Epidemiology	2024- present
*Morgan Jibowu	PhD Epidemiology	2023- 2024
<i>Population Dynamics of Medical Important Mosquitos in Harris County, Texas</i>		
Cory Pfeifer	PhD MPACH	2023- present
*Shelby Rose Simar	PhD Epidemiology	2022- 2024
<i>The Bugs they are A-Changin': The Persistence and Resistance of Enterococci</i>		
*Taylor Castillo	PhD MPACH	2022- 2025
<i>Adolescent Behavioral Health: Evaluating the Trends in Anxiety & Depression in the Primary Care Setting from 2018-2022</i>		

***Graduated**

CONFERENCES/SYMPOSIUMS/TRAININGS:

Sep 2025	UTHealth School of Dentistry Leadership Series: Compassionate Leadership: Creating Environments Where Others Feel Safe and Valued (1 hour)
Fall 2025	Rice University Center for Teaching Excellence Reading Group (3 hours) <i>Read and discussed the book Infusing Creating Thinking into Higher Education by Cyndi Burnett and John Fitzgerald Cabra with Rice University faculty and doctoral students.</i>
June 2025	UTHealth Advances in Teaching and Learning Day (8 hours) <i>Keynote speaker: Dr. Todd Zakrajšek's. Gained a deeper understanding of how cognitive science informs effective teaching practices in health science education. Sessions highlighted key elements of learning (memory, attention, and motivation) to challenge common assumptions about how students learn. Explored evidence-based strategies to foster deeper, more durable learning, how to increase learner participation by addressing psychological and environmental barriers, and practical tools to create inclusive and engaging learning environments via actionable techniques.</i>
June 2025	Microsoft 365 Copilot Training for PowerPoint and OneNote (1 hour) <i>A 1-hour training session on the use of Microsoft's AI software, Microsoft Copilot to create compelling and engaging learning and communication tools in PowerPoint.</i>
June 2025	Teaching Innovation Award Faculty Experience Sharing Session (2 hours)

2-hour session in which, with my collaborators, delivered a 50-minute presentation that shared our experiences, suggestions, and work on our 2023-2024 Teaching Innovation Awards for Introduction to Epidemiology and Field Methods in Epidemiology with UTHHealth Houston School of Public Health faculty

May 2025	Using VoiceThread in Canvas Workshop (1 hour) <i>A 1-hour training session on the use of VoiceThread software to create graded assignments and sharing spaces for classes in the online space to improve student engagement with the teaching team, their peers, and their material under discussion</i>
Feb 2025	Shine Academy Innovations in Health Sciences Education Conference 2025 (12 hours) <i>2-day conference bring University of Texas system schools together to improve health sciences education. Across the 2 days, I attended sessions on writing objectives, developing an integrative mentoring program, the use of AI in Health Science Education, and lead a 1-hour discussion on 'Teaching Effectively in a Mixed Modality World' and helped develop 2 others (see Abstracts and Presentations)</i>
Fall 2024	Rice University Center for Teaching Excellence Reading Group (3 hours) <i>Read and discussed the book Improving Learning and Mental Health in the College Classroom by Robert Eaton, Steven V. Hunsaker, and Bonnie Moon with Rice University faculty and doctoral students.</i>
Sept. 2024	Teaching and Learning with AI Webinar (1 hour) <i>Inside Higher Ed</i>
Fall 2023	Rice University Center for Teaching Excellence Reading Group (3 hours) <i>Read and discussed Small Teaching by James Lang with Rice University faculty and doctoral students</i>
July 2023	Advances in Teaching and Learning Day (8 hours)
May 2023	American Educational Research Association Annual Meeting (20 hours)
Mar. 2023	SHINE Academy: 2023 Innovations in Health Science Education Annual Conference (15 hours)
June 2022	West Virginia Summer Scholar's Teaching Institute (8 hours)
May 2022	TEACH-S: Texas Education Academies Collaborative for Health Professionals-Southeast Educational Symposium (8 hours)

PROFESSIONAL MEMBERSHIP:

2021-present	Member, Delta Omega Honorary Society in Public Health
2023-2024	Member, American Educational Research Association (AERA)

OTHER SERVICE:

Sept. 2025	Cohost, Fall 2025 New Student Q & A Session for the Department of Epidemiology for both MPH and PhD students (2 hours) <i>UTHealth SPH, Department of Epidemiology</i>
Aug. 2025	Facilitator support, Fall 2025 New Student Orientation for the Department of Epidemiology (1 hour) <i>UTHealth SPH, Department of Epidemiology</i>
Feb. 2025	Facilitator, Prospective Epidemiology Student Open House (2 hours) <i>UTHealth SPH, Department of Epidemiology</i>
Aug. 2024	Facilitator, PhD Student Career and Professional Development Listening Session (2 hours) <i>UTHealth SPH PhD Epidemiology Student Association (EPSA)</i>
May. 2024	Panelist and Presenter, Fostering Teaching Excellence (1 hour) <i>UTHealth SPH Department of Epidemiology Faculty Retreat</i>
Nov. 2023	Panelist, Careers in Epidemiology (2 hours) <i>UTHealth SPH PhD Epidemiology Student Association (EPSA)</i>
Sept. 2023	Community Partner and Small Group Facilitator (4 hours) <i>UTHealth Houston Community Action Poverty Simulator</i>