LaTweika A.T. Salmon-Trejo, DrPH, MPH

407.920.5668 | latweika.salmon@icloud.com

EDUCATION

05/2025	DrPH, Epidemiology & Biostatistics
	Florida Agriculture & Mechanical University (Tallahassee, FL)
	Advisor/Committee Chair: C. Perry Brown, MPH, DrPH
12/2015	MPH, Epidemiology and Biostatistics
	Purdue (Kaplan) University (West Lafayette, IN)
05/2012	BS, Biology and Biomedical Sciences
	Northwestern State University (Natchitoches, LA)

POSITIONS

06/2025 – Present	Financial Analyst
	Division of Finance & Accounting
	Florida Commerce
05/2020 – Present	Director | Public Health Consultant
	31 Health Consulting LLC
02/2022 – 11/2024	Epidemiologist
	Division of TB Elimination
	Centers for Disease Control (Remote| Atlanta, GA)
02/2022 – 08/2025	Graduate Research Assistant
	Division of Infectious Diseases and Global Medicine
	Emerging Pathogens Institute
	University of Florida (Gainesville, FL)
10/2018 – 02/2022	Molecular Epidemiologist
	Division of Disease Control and Protection
	Tuberculosis Control Program
	Florida Department of Health (Tallahassee, FL)
06/2017 – 10/2018	Travel Associated Disease Epidemiologist
	Division of Disease Control and Protection
	Epidemiology & Surveillance Systems
	Florida Department of Health (Tallahassee, FL)
08/2015 – 08/2017	Life Sciences (Biology) Instructor
	Orange County Public Schools
	Lake Nona Middle School (Lake Nona, FL)
08/2014 – 08/2015	Health Communications Manager
	Women's & Girls Cancer Alliance (Longwood, Fl)

FUNDING

07/2021 – 06/2026   NIH/NIAID K01AI153544 (PI: Séraphin)
Linking within- and between-host dynamics in tracking recent
Mycobacterium tuberculosis transmission
Role: Graduate Research Assistant

08/2020 – 05/2025   McKnight Funding
Leveraging Tuberculosis Lineage Insights and Contact-Based TB Cases to Enhance Molecular Epidemiology Practices *in Cluster Investigations: Exploring the Role of Sympatric and Allopatric Exposure in Florida*
Role: Principal Investigator

07/2018 – 06/2021   CDC/ELC Cooperative Agreement (PI: Florida Department of Health)
Travel Associated Disease Epidemiology Capacity

Role: Principal Investigator

REFEREED PUBLICATIONS

1. Asare-Baah, M., Séraphin, M. N., **Salmon-Trejo, L. A. T.,** Johnston, L., Dominique, L., Ashkin, D., Vaddiparti, K., Kwara, A., Maurelli, A. T., & Lauzardo, M. (2025). Genotyped cluster investigations versus standard contact tracing: comparative impact on latent tuberculosis infection cascade of care in a low incidence region. *BMC infectious diseases*, *25*(1), 74.
https://doi.org/10.1186/s12879-02410358-4

2. Asare-Baah M, Séraphin MN, **Salmon-Trejo LAT**, Johnston L, Dominique L, Ashkin D, Vaddiparti K, Kwara A, Maurelli AT, Lauzardo M. Effects of the Beijing genotype on latent tuberculosis infection, TB disease risk, and clustering of TB cases. Infect Genet Evol. 2024 Sep;123:105648.
doi:10.1016/j.meegid.2024.105648. Epub 2024 Jul 25. PMID:39059734.

3. Asare-Baah, M., **Salmon-Trejo, L. A. T**., Venkatappa, T., Garfein, R. S., Aiona, K., Haas, M., & Séraphin, M. N. (2024). Factors Associated With the Discontinuation of Two Short-Course Tuberculosis Preventive Therapies in Programmatic Settings in the United States. Open forum infectious diseases, 11(6), ofae313. https://doi.org/10.1093/ofid/ofae313

4. Eustaquio PC, **Salmon-Trejo LA**, McGuire LC, Ellington SR. Epidemiologic and Clinical Features of Mpox in Adults Aged >50 Years — United States, May 2022–May 2023. MMWR Morb Mortal Wkly Rep 2023;72:893– 896. DOI: http://dx.doi.org/10.15585/mmwr.mm7233a3

5. Riser, A. P., Hanley, A., Cima, M., Lewis, L., Saadeh, K., Alarcón, J., Finn, L., Kim, M., Adams, J., Holt, D., Feldpausch, A., Pavlick, J., English, A., Smith, M., Rehman, T., Lubelchek, R., Black, S., Collins, M., Mounsey, L., Blythe, D., … Guagliardo, S. A. J. **Salmon-Trejo LAT** (2023). Epidemiologic and Clinical Features of Mpox-Associated Deaths - United States, May 10, 2022March 7, 2023. MMWR. Morbidity and mortality weekly report, 72(15), 404–410. https://doi.org/10.15585/mmwr.mm7215a5

6. Mangan, J. M., Woodruff, R. S., Winston, C. A., Nabity, S. A., Haddad, M. B., Dixon, M. G., Parvez, F. M., Sera-Josef, C., **Salmon-Trejo, L. A. T**., & Lam, C. K. (2023). Recommendations for Use of Video Directly Observed Therapy During Tuberculosis Treatment - United States, 2023. MMWR. Morbidity and mortality weekly report, 72(12), 313–316. https://doi.org/10.15585/mmwr.mm7212a4

7. Oakley, L. P., Hufstetler, K., O'Shea, J., Sharpe, J. D., McArdle, C., Neelam, V., Roth, N. M., Olsen O., Wolf, M., Pao, L. Z., Gold, J. A. W., Davis, K. M., Perella, D., Epstein, S., Lash, M. K., Samson, O., Pavlick, J., Feldpausch, A., Wallace, J., Nambiar, A., **Salmon-Trejo, L. A. T.,** (2023). Mpox Cases Among Cisgender Women and Pregnant Persons - United States, May 11-November 7, 2022. MMWR. Morbidity and mortality weekly report, 72(1), 9–14. https://doi.org/10.15585/mmwr.mm7201a2

8. Asare-Baah M, Séraphin MN, **Salmon LAT**, Lauzardo M. Effect of mixed strain infections on clinical and epidemiological features of tuberculosis in Florida. Infect Genet Evol. 2021 Jan;87:104659. doi: 10.1016/j.meegid.2020.104659. Epub 2020 Dec 1. PMID: 3327614

MANUSCRIPTS UNDER REVIEW

9. **Salmon-Trejo, L. A. T.,** Asare-Baah, M., Zoungrana, M., Osborne, D. E., Johnston, L., & Séraphin, M. N. (2025). Hidden resistance: Genetic mutations prolong sputum conversion despite phenotypic susceptibility in tuberculosis. Infection, Genetics and Evolution. [Manuscript under review]

PEER REVIEWED

10. Winglee, K., McDaniel, C. J., Linde, L., Kammerer, S., Cilnis, M., Raz, K. M., Noboa, W., Knorr, J., Cowan, L., Reynolds, S., Posey, J., Sullivan Meissner, J., Poonja, S., Shaw, T., Talarico, S., & Silk, B. J. (2021). Logically Inferred Tuberculosis Transmission (LITT): A Data Integration Algorithm to Rank Potential Source Cases. *Frontiers in public health*, *9*, 667337. https://doi.org/10.3389/fpubh.2021.667337

PRESENTATIONS
Oral Presentations

1. **Salmon-Trejo L. A. T.** *Leveraging tuberculosis lineage-insights and contact-based TB cases to enhance molecular epidemiology practices in cluster investigations: Exploring sympatric and allopatric exposure.* Poster presentation at the Delta Omega Poster Session, American Public Health Association (APHA) Annual Meeting & Expo, Washington, DC, 3 November 2025.

2. **Salmon-Trejo, L. A. T.** *Leveraging tuberculosis lineage insights and contact-based TB cases to enhance molecular epidemiology practices in cluster investigations: Exploring sympatric and allopatric exposure.* Oral presentation at the National Tuberculosis Controllers Association (NTCA) & Association of Public Health Laboratories (APHL) National TB Conference, September 2025.

3. **Salmon-Trejo, L. A. T**., Zoungrana, M., Asare-Baah, M., Osborne, D. E., Johnston, L., & Séraphin, M. N. *Hidden resistance: Genetic mutations prolong sputum conversion despite phenotypic susceptibility in tuberculosis*. Poster presentation at the National Tuberculosis Controllers Association (NTCA) & Association of Public Health Laboratories (APHL) National TB Conference September 2025.

4. **Salmon-Trejo, L. A. T.** *Usual Residence and County Cases for Report of Verified Case of Tuberculosis (RVCT).* Oral presentation delivered on behalf of the Centers for Disease Control and Prevention to all 50 U.S. state tuberculosis (TB) programs, Division of Tuberculosis Elimination, National Center for HIV, Viral Hepatitis, STD, and Tuberculosis Prevention (NCHHSTP), Atlanta, Georgia, November 2024.

5. **Salmon-Trejo, L. A. T.** *American TB Epidemiology: 10-year trends and impact/recovery from COVID-19.* Oral presentation at the National Tuberculosis Controllers Association (NTCA) National TB Conference, Baltimore, Maryland, April 2024.

6. **Salmon-Trejo, L. A. T.** *Reported Tuberculosis in the United States, 2021.* Oral presentation delivered to the Division of Tuberculosis Elimination, National Center for HIV, Viral Hepatitis, STD, and Tuberculosis Prevention (NCHHSTP), Centers for Disease Control and Prevention, Atlanta, Georgia, November 2022.

7. **Salmon-Trejo, L. A. T.** *Reported Tuberculosis in the United States, 2022.* Oral presentation delivered to the Division of Tuberculosis Elimination, National Center for HIV, Viral Hepatitis, STD, and Tuberculosis Prevention (NCHHSTP), Centers for Disease Control and Prevention, Atlanta, Georgia, November 2023.

Poster Presentations

8. **Salmon-Trejo, L. A. T.,** Asare-Baah, M., Osborne, D. E., Johnston, L., & Séraphin, M. N. *The impact of genetic mutations in phenotypically drug susceptible isolates of tuberculosis patients reported in Florida, 2009–2021.* Poster presentation at the National Association of Research (NAR) Annual Conference, BC Lung Foundation, Vancouver, British Columbia, February 2025.

9. Asare-Baah M., Séraphin M. N., **Salmon L. A. T.,** & Lauzardo M. *Effects of mixed strains infection on clinical and epidemiological features of tuberculosis in Florida.* Poster presentation at the University of Florida Research Day, Office of Research, College of Medicine, 2020.

10. **Salmon L. A. T.** *Applied genomic surveillance for TB clusters of interest in Florida (G01884).* Poster presentation at the University of Florida Research Day, Office of Research, College of Medicine, 2019.

11. **Salmon L. A. T.,** & Gumke M. *Examining travel-associated measles cases in Florida, 2007–2018.* Poster presentation at the Council of State and Territorial Epidemiologists (CSTE) Annual Conference, 2018.

12. **Salmon L. A. T.** *Harnessing syndromic surveillance data during natural disasters to enumerate travel patterns of displaced populations to Florida.* Poster presentation at the Council of State and Territorial Epidemiologists (CSTE) Annual Conference, 2018.

13. **Salmon L. A. T.,** & Eisenstein L. *The burden of travel-associated morbidity in Florida, 2016–2017.* Poster presentation at the Council of State and Territorial Epidemiologists (CSTE) Annual Conference, 2017.

14. **Salmon L. A. T.,** & Eisenstein L. *Travel-related illness—2016 Florida Morbidity Statistics Report.* Poster presentation at the Council of State and Territorial Epidemiologists (CSTE) Annual Conference, 2017.

TEACHING
Florida Agriculture & Mechanical University - Institute of Public Health
Guest Lectures

    PHC 6003: Chronic Disease Epidemiology (Spring, 2023 – 2025)
    Lecture Title: Epidemiology of Kidney Disease
    Lecture Title: Heart Disease

Valencia Community College – English 1010

    ENC 1010: English (Fall & Spring 2023 – 2025)
    Lecture Title: Literary Reviews, Research, & Annotated Bibliographies

<u>Instructor</u>

        LNMS Life Sciences Instructor (Biology) Fall & Spring 2016 – 2017

<u>Professional Instruction & Trainings</u>

        Centers for Disease Control
        Title: Molecular Epidemiology & Cluster Investigations (December 2018 – 2019, 2021)
        Title: Usual Residence and Counting Tuberculosis Casses for RVCT (2024) Title:
        Advanced Molecular Detection Academy: Tuberculosis (2024)

        Florida Department of Health
        Title: Molecular Epidemiology & Cluster Investigations (December 2018 – 2019, 2021)
        Title: TB Genotyping (2021, 2022)

        31 Health Consulting LLC
        Title: Health Education on Female Cancers (September 2024)
        Title: Heart Health For You (2021)
        Title: Kidney Disease Awareness (2021)

        Higher Heights Consulting
        Title: Public Health Leadership and Strategic Planning (2024)
        Title: Strategic Planning with Actionable Data for Board of Directors (2024)

MENTORSHIP ROLES

Student	Year	Degree	Major	Role
Y. Lam	2027	DrPH	EPI & Biostatistics	Research Advisor in Dissertation
H. Supre III	2027	DrPH	EPI & Biostatistics	Research Advisor in Dissertation
V. Bruton	2026	DrPH	EPI & Biostatistics	Research Advisor in Dissertation
K. Jacobs	2025	DrPH	EPI & Biostatistics	Research Advisor in Dissertation
P.Eustaquio		MD, MPH 2024 (Postdoctoral Fellow)	EPI & Data Management	Research Mentor — MMWR Publication and IAS 2023 International Conference Presentation (Brisbane, Australia)
E. Heitz	2023	MPH	Epidemiology	Research Mentor — Internal CDC STLT Presentation: "Trends in Mpox Incidence Following Large Events — United States, 2022" (Guided analytic work used to inform mpox outbreak response)

SERVICE TO PROFESSION
MEMBERSHIPS

American Public Health Association	2015 – present
Council of State and Territorial Epidemiologists	2017 – present
Florida Public Health Association	2017 – present
Society of Epidemiology Tuberculosis Control	2018 – present National
Tuberculosis Controllers Association	2018 – present

AD-HOC PEER REVIEWER
Frontiers in Genetics
Morbidity and Mortality Weekly Report

PROFESSIONAL SERVICE

Centers for Disease Control Outbreak Work Detection Group	2018 – 2024
Clinical Epidemiology Workgroup	2022 – 2024
International Society for Disease Surveillance	2019 –present

HONORS & AWARDS

10/2025	Delta Omega Excellent Research Award
04/2024	Centers for Disease Control (CDC) Workplace Equity Innovation Award
03/2017	Received Highest level of Instructional evaluation, Level V-Innovating Instructional Evaluation- Teacher Evaluation assess classroom strategies, planning, preparing, reflecting, and professionalism.
10/2016	Received Highest level of Instructional evaluation, Level V-Innovating Instructional Evaluation- Teacher Evaluation assess classroom strategies, planning, preparing, reflecting, and professionalism.
11/2018	Certificate of Achievement from the Florida Department of Health, Division of Emergency Preparedness and Community Support, for my work as a public health analyst during Hurricane Irma.

CERTIFICATIONS

In progress	Certification in Infection Control – CBIC
In progress	Project Management Professional ® Training Course
08/2025	Microeconomics – The Power of Markets
06/2025	Government Accounting Basics (GAAP)
06/2025	Reconciliation and Corrections
03/2023	Microsoft Office Project Planning 05/2021

Computational Genomics

<u>Other Skills and Experiences</u>
Programming: SAS, R, SPSS, STATA, VBA Excel Macros, Powery Query, PowerBI
Data Visualization: Tableau, GIS, Qlik, Excel **Languages:**
English

APPLIED EPIDEMIOLOGY & PUBLIC HEALTH PRACTICE
- **Florida Department of Children and Families – Office of Opioid Recovery:** Applied advanced epidemiologic and biostatistical methods to design statewide surveillance and fiscal-tracking systems monitoring $205.7 million in behavioral-health program expenditures for opioid use disorder and substance use disorder. Utilized Bayesian MCMC modeling to quantify geographic treatment inequities and evaluate medicationassisted treatment (MAT) access, translating analytic findings into data-driven policy recommendations. Provided professional development to more than 50 public-health and healthcare practitioners, strengthening Florida's analytic workforce and evidence-based performance monitoring infrastructure.

- **31 Health Consulting, LLC:** Directed epidemiologic and program-evaluation consulting initiatives integrating social-determinants data, fiscal analytics, and community-health metrics to improve population-level outcomes. Designed outcome-oriented toolkits using VMOSA and logic-model frameworks to help partner organizations translate surveillance data into measurable interventions. Demonstrated public-health entrepreneurship by securing competitive foundation funding and leading multidisciplinary collaborations that applied epidemiologic evidence to advance equity and prevention.

- **Higher Heights Consulting, Inc.:** Conducted cross-sectional and ecological analyses linking BRFSS, hospital-discharge, and CDC SVI datasets to identify structural drivers of chronic-disease burden. Exercised public-health leadership in forming and training a 20member coalition that operationalized epidemiologic findings into diabetes- and asthmaprevention initiatives. Created interactive Power BI dashboards and executive reports that communicated analytic results to decision-makers, reinforcing data literacy and accountability within community-benefit programs.

- **Centers for Disease Control and Prevention – Division of Tuberculosis Elimination:** Led multistate surveillance and applied regression modeling to detect trends in tuberculosis incidence, translating quantitative evidence into national prevention strategy. Integrated molecular-epidemiology and social-determinant variables into analytic pipelines, improving precision of cluster detection and outbreak attribution. Co-authored CDC's 10-year TB projection and NTSS Annual Report, modeling exemplary use of surveillance science to strengthen federal and state program alignment.

- **Centers for Disease Control and Prevention – Mpox Outbreak Response:** Directed a multidisciplinary analytic team applying outbreak-investigation and descriptiveepidemiology methods to 2022 national mpox data. Quantified post-event transmission surges and disseminated evidence through CDC infection-prevention

guidance, shaping real-time response policies. Served as national liaison providing analytic interpretation
and situational awareness to STLT partners and global health agencies, reinforcing interjurisdictional coordination and data-driven decision-making.

- **Florida Department of Health – TB Molecular Surveillance:** Engineered a statewide SQL-based analytic platform linking clinical, genomic, and epidemiologic datasets to enable rapid detection of transmission clusters. Directed investigations using molecular typing and contact-network analyses to identify outbreak pathways and implement infection-control interventions. Delivered statewide training in genomic surveillance and epidemiologic interpretation, building local capacity for evidence-based tuberculosis prevention.

- **Florida Department of Health – COVID-19 Response:** Applied outbreak-response epidemiology and health-systems analysis to coordinate statewide COVID-19 investigations, ensuring timely identification of transmission sources and containment in high-risk facilities. Provided just-in-time training and analytic guidance to county epidemiologists and infection-control practitioners, enhancing data quality and adherence to federal reporting standards. Synthesized surveillance data into policy briefs that informed state emergency-management decisions.

- **Florida Department of Health – Travel-Associated Disease Epidemiology:** Conducted surveillance of imported infectious diseases using SAS, SQL, and geospatial analysis to characterize epidemiologic trends in travel-related cases such as Zika and malaria. Enhanced Florida's Merlin system to capture exposure pathways, improving timeliness and completeness of reportable-disease data. Produced analytic summaries translating surveillance findings into targeted prevention messaging for clinicians and local health departments, reinforcing early-warning capacity and global-health readiness.

- **Women's & Girls Cancer Alliance – Community Health Epidemiology:** Led a multicounty analysis of HPV vaccination coverage and cervical cancer disparities in Orange and Seminole Counties. Integrated epidemiologic findings into a public health campaign (#PantyPledge) analytics and community-event ROI to design targeted interventions, strengthen nonprofit outreach, and advance equity-focused cancer prevention across Central Florida.