

LT Ashley S. Tseng

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EDUCATION

University of Washington School of Public Health, Seattle, WA

June 2024

Doctor of Philosophy (PhD) in Epidemiology

Doctoral Dissertation: “State-of-the-ART Care: Revolutionizing Medication Delivery in Rural Settings with a Person-Centered Care Approach”

Predoctoral Fellow, Biostatistics, Epidemiologic, and Bioinformatic Training in Environmental Health Training Grant, National Institute of Environmental Health Sciences, U.S. National Institutes of Health (June 2020-2022)

Diversity Research Supplement Awardee, Research Supplement to Promote Diversity in Health-Related Research, National Institute of Mental Health, U.S. National Institutes of Health (June 2022-2024)

Columbia University Mailman School of Public Health, New York, NY

May 2020

Master of Public Health (MPH) in Epidemiology, Applied Biostatistics Certificate

Master's Thesis: “Network analysis of livestock trade data to assess potential for zoonotic disease spread in Western Asia” (Grade: A)

Relevant coursework: Epidemiology I-III, Applied Regression I & II, Analysis of Categorical Data, Data Science, Emerging Infectious Diseases, Epi Modeling of Infectious Diseases, Advanced GIS and Spatial Analysis, Pharmaceutical Statistics, Machine Learning for Epidemiology and Public Health

McGill University, Montreal, QC, Canada

May 2018

Bachelor of Science (BSc) in Physical (Health) Geography, Minor in Economics

Relevant coursework: Global Environmental Health & Burden of Disease, Economic Evaluation of Health Programs, Fundamentals of Global Health, Advanced Topics in Health Geography, Introduction to Geographic Information Systems

SKILLS & CERTIFICATIONS

Statistical, Spatial, and Bioinformatic Analysis: EpiInfo, R (advanced), SAS (basic), Stata (basic); ArcGIS, GeoDa, QGIS; Geneious Prime, Shell Scripting

Microsoft Office: Excel, PowerPoint, Word

Languages: English (full fluency), Mandarin Chinese (moderate fluency)

Certifications: CITI Human Subjects Protection and HIPAA Patient Privacy

CONSULTING, NON-PROFIT & GOVERNMENT PUBLIC HEALTH RESEARCH EXPERIENCE

Centers for Disease Control and Prevention, Atlanta, GA

July 2024 – Present

Epidemic Intelligence Service (EIS) Officer

Assigned to the Disease Outbreak Control Division, Hawaii State Department of Health, Honolulu, HI

- EIS officers serve at the forefront of public health, protecting Americans and the global community, while training under the guidance of seasoned mentors during a two-year fellowship
- When disease outbreaks or other public health threats emerge, EIS officers investigate, identify the cause, rapidly implement control measures, and collect evidence to recommend preventive actions

Commissioned Corps of the United States Public Health Service (USPHS)

June 2024 – Present

Lieutenant, Scientist Officer

- USPHS Commissioned Corps scientists conduct biomedical, clinical, behavioral, and epidemiological research, enforce drug and medical device regulations, and manage national and international research programs

- USPHS scientists strive to bring the most current science into play to address public health challenges and promote and improve the health of the Nation

Center for Public Health Nutrition, Seattle, WA

December 2022 – September 2023

Graduate Research Assistant

PI: Drs. Jennifer Otten and Marie Spiker, Center for Public Health Nutrition, Department of Environmental and Occupational Health Sciences, and Department of Epidemiology

- Conducted data analyses for the WAFOOD Survey to monitor the economic impact of COVID-19 and related inflationary food price fluctuations on Washington State residents' food security and needs
- Produced a report that directly informed the Washington State Department of Agriculture during the Washington State legislative session in early 2023
- Primary tasks included cleaning and analyzing WAFOOD survey data, preparing written and visual components of preliminary (February 2023) WAFOOD wave 4 and final (June 2023) longitudinal and cross-sectional reports, harmonizing data across four WAFOOD survey waves, and conducting statistical analyses for and co-authoring a manuscript for submission to a peer-reviewed journal

EpiPointe LLC, Cary, NC

October 2022 – March 2024

Epidemiologist (Consultant)

PI: Dr. Falgunee Parekh

- Worked in collaboration with Guru Angad Dev Veterinary and Animal Sciences University in Punjab, India to develop an innovative training network program focused on the under-represented workforce of Women Veterinary Health Professionals (WVHPs) and Women Farmers (WF) to enhance capacity to rapidly detect outbreaks of high consequence pathogens
- Designed content for multi-day workshops in India to train WVHPs on One Health Epidemiology and laboratory biosafety and biosecurity topics
- Assisted in selection of WVHPs to implement pilot workshops for WFs in their districts
- Wrote and disseminated monthly short trainings/communications after workshops to reinforce learning outcomes, promote recruitment, and ensure retention of WVHPs and WFs
- Developed and implemented pre- and post-engagement evaluation metrics of participants to measure capacity, knowledge, awareness, strengths, weaknesses, and likelihood of implementation success

International Clinical Research Center, Seattle, WA

September 2021 – June 2022

Graduate Research Assistant

PI: Dr. Jennifer Ross, Department of Global Health

- Worked on a HIV-Tuberculosis (TB) mathematical modeling study to estimate the health impact in HIV infections averted of combination prevention and linkage to antiretroviral therapy for serodiscordant couples in TB-affected households in 4 TB-HIV high-burden countries (Ethiopia, Kenya, South Africa, Uganda)
- Conducted 2 systematic literature reviews to identify mathematical model parameters for the study
- Managed the study literature database and performed data extraction of past studies
- Calculated the prevalence of HIV in adult household contacts of TB patients in Ethiopia, Kenya, South Africa, and Uganda
- Co-authored a manuscript based on study findings

Chelan-Douglas Health District, Wenatchee, WA

August 2021 – September 2021

Epidemiologist (Deployed)

Supervisor: Dr. Luke Davies, Chelan-Douglas Health District Administrator

- Deployed as a University of Washington Student Epidemic Action Leaders Team member on a 6-week assignment to a rural health department in Central Washington
- Performed a rapid literature review and wrote a summary report on long COVID
- Created a centralized COVID-19 case database for the health district
- Researched and drafted public service announcements in the form of public health briefs about 1) Ivermectin use for COVID-19 prevention and treatment and 2) COVID-19 risks for pregnant women and recommendations for vaccinations
- Analyzed data on long COVID cases in the Chelan-Douglas Health District
- Assisted with COVID-19 case investigations and test notifications across the health district during the Delta variant surge in cases and at vaccination clinics

International Clinical Research Center, Seattle, WA

September 2020 – September 2021

Graduate Research Assistant

PI: Drs. Carey Farquhar and Joshua Herbeck, Department of Global Health

- Worked on the Study of HIV, HCV, APS and Phylogenetics for people who inject drugs to determine whether assisted partner services can find, test, and link to care the sexual and injection partners of people who inject drugs living with HIV in Kenya
- Performed phylogenetic and statistical analyses to elucidate risk factors for onward transmission of HIV and hepatitis C in this population
- Prepared and led the submission of an IRB application for a supplemental research study on COVID-19 testing and estimating COVID-19 prevalence among people who inject drugs and their partners in Kenya
- First-authored a published manuscript in a peer-reviewed journal examining characteristics of index participants that result in greater onward transmission of HIV in sexual and drug-injection partners
- Co-authored manuscripts describing characteristics associated with COVID-19 prevalence and viral suppression of drugs used to treat HIV in the study population

EpiPointe LLC, Cary, NC

April 2021 – July 2021

Epidemiologist (Consultant)

PI: Dr. Falgunee Parekh

- Worked in collaboration with FHI Clinical and Harvard Medical School to conduct Site Feasibility assessments for the epidemiology study that will support a Phase 3 tuberculosis vaccine trial sponsored by the Bill and Melinda Gates Medical Research Institute
- Assisted in development of the Feasibility and Site Capacity Assessment Tool to assess tuberculosis epidemiology at the site and catchment area levels
- Developed a systematic method to score key criteria in the Feasibility and Site Capacity Assessment Tool
- Scored site responses according to the systematic method developed
- Provided topic areas for subject matter experts to follow-up with sites based on evaluation of survey responses
- Contributed to a final report that summarizes the scoring process, results of scoring, ranking of sites according to key criteria, and lessons learned
- Co-authored a manuscript for publication in a peer-reviewed journal to describe our assessment and scoring methodology

Alliance for Pandemic Preparedness, University of Washington, Seattle, WA

June 2020 – June 2021

Graduate Research Assistant

PI: Drs. Jennifer Ross and Brandon Guthrie, Department of Global Health

- Contributed to the production of daily summaries and in-depth reports of literature related to the COVID-19 outbreak (the COVID-19 Literature Situation Report)
- Tasks included a daily systematic search of published and pre-print literature, importation of citations, sorting of references into priority categories, identification of 10-20 articles per day to summarize, writing and editing of article summaries, and distribution of a daily literature digest

Department of Epidemiology, Columbia University, New York, NY

September 2019 – September 2020

Graduate Research Assistant

PI: Dr. Jeanine Genkinger, Department of Epidemiology

- Worked on a new research study of nutrition, early detection, and cancer risk and survival (primarily focused on ovarian and pancreatic cancers) for 34 international cohort studies included in the Pooling Project of Prospective Studies of Diet and Cancer (DCPP) of Harvard University
- Routine tasks included assisting with NIH research grant submissions, performing word processing for scientific manuscripts, conducting data analysis and literature searches, updating research databases, preparing PowerPoint presentations, and creating tables, graphs, and spreadsheets
- Co-authored: 1. an epidemiology methods manuscript on the data standardization process for comparison across five different dietary indices and 2. a systematic review on risk factors for double primary breast and ovarian cancer in women across the risk spectrum

Department of Environmental Health Sciences, Columbia University, New York, NY

March – May 2020

Graduate Teaching Assistant

Professor: Dr. Tiffany Sanchez, Department of Environmental Health Sciences

- EHSC P8321 (Introduction to Data Science for Environmental Health), a team-taught second quarter Spring 2020 course, covered both conceptual and practical topics in data science related to environmental health sciences including web scraping/text mining, working with spatial data, prediction models, and omics
- Worked with various instructors to develop weekly modules, coded weekly lab and homework assignments in R, led students through in-class coding labs, and troubleshooted student questions during weekly office hours

EcoHealth Alliance, New York, NY

May 2019 – August 2019

EcoHealthNet Research Exchange Intern

PI: Dr. Kevin Olival, Vice President for Research & Dr. Kendra Phelps, Senior Scientist

- Worked on the Western Asia Bat Research Network Project (WAB-Net) which is fully funded by the Cooperative Biological Engagement Program of the U.S. Department of Defense – Defense Threat Reduction Agency
- Completed a broad zoonotic disease literature review and researched pre-existing, publicly available datasets (i.e., Food and Agriculture Organization Corporate Statistical Database, World Organisation for Animal Health's World Animal Health Information System) to use
- Conducted a network analysis on livestock trade and prevalence of three zoonotic diseases between 20 Western Asia countries in R, then transitioned the project to become my master's thesis
- Collected diagnostic samples from wild-caught bats for coronavirus surveillance in Turkey and Jordan in August 2019

National Center for Disaster Preparedness, New York, NY

January 2019 – May 2019

Graduate Research Assistant

Supervisor: Dr. Thomas Chandler, Deputy Director and Research Scientist

- Built an open-access topical application using ArcGIS to serve as supplemental material to FEMA Community Housing Recovery trainings throughout the U.S.
- Curated housing, community, and natural hazards Geographic Information Systems (GIS) assets based on existing literature regarding community housing recovery after disasters
- Cleaned and manipulated curated datasets in Stata
- Spatially joined housing, community, and natural hazards GIS datasets to a Census Tract geodatabase
- Invited to give an oral presentation on this novel tool as part of the Disaster Clusters session at the Earth Science Information Partners Annual Meeting in Tacoma, Washington in July 2019

U.S. Department of the Interior, Washington, DC

June 2018 – August 2018

National Park Service, Office of Public Health, Disease Prevention and Response Epidemiology Branch
Epidemiology Student Trainee

Supervisor: CDR Maria Said, Epidemiology Branch Chief

- Developed content (e.g., infectious disease fact sheets) for the National Park Service internal and external websites
- Evaluated Appalachian Trail's current norovirus surveillance system to identify strengths and gaps
- Used CDC software EpiInfo to develop and deploy disease detection survey for norovirus cases in Yellowstone National Park
- Performed fieldwork (tick dragging) for multi-year CDC Lyme disease surveillance project in Rock Creek Park, Maryland

American Society for Microbiology, Washington, DC

June 2018 – August 2018

International Affairs Team Program Coordinator

Supervisor: Dr. Mark Lim, Director of International Affairs (Global Public Health Programs)

- Provided administrative and logistical support for three major programs: PEPFAR (CDC), Global Health Security Agenda (CDC), and Biosafety & Biosecurity (BS&S) strengthening (Department of State)
- Researched public and private funding opportunities for One Health and point-of-care HIV testing
- Spearheaded effort to create partnerships between the American Society for Microbiology and multiple Chinese organizations, including China CDC, and universities

Land and Food Lab, McGill University, Montreal, QC, Canada

January 2018 – May 2018

Undergraduate Research Assistant

PI: Dr. Graham MacDonald, Department of Geography

- Developed a phosphorus footprint tool based on U.S. data which describes the phosphorus losses to the environment that are linked to individual or collective consumption patterns
- Compiled and manipulated data in Microsoft Excel to generate a set of calculations called virtual phosphorus factors (VPFs) for animal-based products
- Initially my independent research project for Fall 2017, I continued on as a Research Assistant in the lab for Winter 2018

CRDF Global, Arlington, VA

May 2017 – August 2017

Biosecurity Engagement Program (BEP) Team Intern

Supervisor: Andrew Parsons, Associate Director of the Biosecurity Engagement Program

- Researched impact of the political climate in the Middle East and North Africa region on biosecurity practices
- Assisted with proposal development by reviewing the budget and performing a copy review before sending to the BEP team Associate Director for final approval

- Conducted on monitoring & evaluation of ongoing BEP projects based on DoS CTR-requested metrics, data mining, and conference and travel logistics
- Wrote summary reports and gave presentations on global health security events I attended

Experiment, New York, NY

July 2015 – January 2017

Community Team Intern

Supervisor: Cindy Wu, Co-Founder

- Reviewed and edited ~100 project scientific research proposals
- Ran two grant challenges (Seabirds and Public Health)
- Made five video storyboards for scientists running research campaigns and wrote a Science Story on one of the project researchers
- Answered ~50 daily client e-mails and assisted in project payouts to researchers

Biogeochemistry Lab, McGill University, Montreal, QC, Canada

January 2016 – April 2016

Undergraduate Research Assistant

PI: Dr. Tim Moore, Department of Geography

- Assisted with PhD Candidate Tatjana Živković's dissertation on nutrient cycling in northern peatlands in Canada
- Researched the importance of N₂ fixation as an N input in peatlands and ecological drivers controlling N₂ fixation with a focus on environmental and biogeochemical controls
- Grinded and weighed 100 moss samples, then performed acid digestions of dried moss samples for further nutrient analyses (P, K, Mg, Ca)
- Submitted the 100 samples for N and P analyses to the McGill Environmental Chemistry and Soil Nutrient Lab

Maldonado Group, University of Michigan, Ann Arbor, MI

July 2015 – August 2015

Summer Undergraduate Research Assistant

PI: Dr. Stephen Maldonado, Department of Chemistry

- Collaborated with a professor to create a new undergraduate chemistry course at the university focused on creating thin-film solar cells with the hope of exposing students to an alternate form of solar cells made from perovskites, cheaper and simpler to make than other types of solar cells
- Planned the structure and content of the course, organized each laboratory session, then spent time in the laboratory to perform each week's lab to see if the allotted time and difficulty per lab were appropriate
- Created a Microsoft Excel how-to guide for the data analysis component of the course

Lombardi Cancer Comprehensive Center, Georgetown University, Washington, DC

June 2013 – August 2013

Summer Research Assistant

PI: Dr. Judy Huei-yu Wang, Department of Oncology

- Worked with a population sciences researcher on a five-year randomized controlled trial to test the effect of cultural targeting on increasing mammography screening specifically in Chinese immigrants
- Started a fundraising project in collaboration with CANCER101 to create a toolkit guiding newly-diagnosed breast cancer patients through treatments and care
- Made two informational pamphlets for breast cancer patients

Lombardi Cancer Comprehensive Center, Georgetown University, Washington, DC

June 2012 – July 2012

Summer Research Assistant

PI: Dr. Judy Huei-yu Wang, Department of Oncology

- Worked with a population sciences researcher on a five-year randomized controlled trial (RCT) to test the effect of cultural targeting on increasing mammography screening specifically in Chinese immigrants
- Translated ~20 phone interviews with breast cancer survivors from Chinese to English
- Supported data entry for RCT participants
- Performed literature reviews to support dietary research grant applications

PUBLICATIONS

- Tseng AS**, Barnabas RV, van Heerden A, Ntinga X, Sahu M. Costs of home-delivered antiretroviral therapy refills for persons living with HIV: evidence from a pilot randomized controlled trial in KwaZulu-Natal, South Africa. *PLOS Glob Public Health*. Submitted June 17, 2024.
- Buszkiewicz JH, **Tseng AS**, Dai J, Ismach A, Beese S, Collier SM, Spiker ML, Otten JJ. Association between early-pandemic food assistance use and subsequent food insecurity trajectories among households in Washington State during the first three years of the COVID-19 pandemic. *PLOS ONE*. Submitted June 2, 2024.
- Tseng AS**, Heitner JA, Szpiro AA, van Heerden A, Ntinga X, Krows ML, Barnabas RV. Comparing the environmental costs of home-delivered vs. standard clinic-based antiretroviral therapy refills for people living with in rural South Africa. *PLOS Sustainability and Transformation*. Submitted December 21, 2023.
- Tseng AS**, Mugwanya KK, Szpiro AA, van Heerden A, Ntinga X, Schaafsma TT, et al. Estimating the effect of COVID-19 pandemic restrictions on self-reported antiretroviral therapy use and late refill visits among people living with HIV in rural South Africa. *JAIDS J Acquir Immune Defic Syndr*. 2024.
doi:10.1097/QAI.0000000000003431
- Zhang M, **Tseng AS**, Anguzu G, Barnabas RV, Davis JL, Mujugira A, Flaxman AD, Ross JM. Modeled estimates of HIV-serodifferent couples in tuberculosis-affected households in four sub-Saharan African countries. Sharan R, editor. *PLOS Glob Public Health*. 2024;4: e0002609. doi:10.1371/journal.pgph.0002609
- Tseng AS**, Roberts MC, Weissman SJ, Rabinowitz PM. Study of heavy metal resistance genes in *Escherichia coli* isolates from a marine ecosystem with a history of environmental pollution (arsenic, cadmium, copper, and mercury). *PLOS ONE*. 2023;18(11):e0294565. doi: 10.1371/journal.pone.0294565
- Mui WL, Parekh FK, **Tseng AS**, Toro J, Craig T, Ndugga M, Schmidt AC, Dagnew AF, Penz C, Belai G. Data-driven epidemiologic approach to conducting site feasibility for a global phase III tuberculosis vaccine clinical trial. *PLOS Glob Public Health*. 2023 Nov 8; 3(11). doi: 10.1371/journal.pgph.0002544
- Chohan BH, Kingston H, **Tseng AS**, Sambai B, Guthrie BL, Wilkinson E, Giandhari J, Mbogo LW, Monroe-Wise A, Masyuko SJ, Bosire R, Ludwig-Barron NT, Sinkela W, Bukusi D, de Oliveria T, Farquhar C, Herbeck JT. Virologic non-suppression and HIV drug resistance among people who inject drugs and their sexual and injecting partners in Kenya. *AIDS Res Hum Retroviruses*. Published online December 8, 2023.
doi:10.1089/AID.2023.0068.
- Ferris JS, Morgan DA, **Tseng AS**, Terry MB, Ottman R, Hur C, Wright JD, Genkinger JM. Risk Factors for Developing Both Primary Breast and Primary Ovarian Cancer: A Systematic Review. *Crit Rev Oncol Hematol*. 2023 Aug;104081. doi: 10.1016/j.critrevonc.2023.104081.

- Yeh KB, Powers MD, Patel A, Parekh F, **Tseng AS**, Bradford E, Parker K, Soong R, Olinger G, Mombo I. Retrospective on molecular assay design for detecting pan-orthopox viruses and prospective on mpox laboratory preparedness and readiness. *Front Trop Dis*. 2023 Jul 26;4. doi: 10.3389/fitd.2023.1221804.
- Otten JJ, Spiker ML, Dai J, **Tseng AS**, Buszkiewicz JH, Beese S, Collier SM, Ismach A. Washington State Food Security Surveys: Longitudinal findings across survey waves 1-4, 2020-2023 [Internet]. Seattle: University of Washington School of Public Health Center for Public Health Nutrition; 2023 June [cited 2023 Aug 4]. Available from: <https://nutr.uw.edu/cphn/wafood/brief-15>.
- Otten JJ, Spiker ML, Dai J, **Tseng AS**, Buszkiewicz JH, Beese S, Collier SM, Ismach A. Washington State Food Security Surveys: Cross-sectional findings from survey waves 1-4, 2020-2023 [Internet]. Seattle: University of Washington School of Public Health Center for Public Health Nutrition; 2023 June [cited 2023 Aug 4]. Available from: <https://nutr.uw.edu/cphn/wafood/brief-14>.
- Otten JJ, Spiker ML, Dai J, **Tseng AS**, Buszkiewicz JH, Beese S, Collier SM, Ismach A. Food Access and Economic Well-being: Additional findings from a 4th survey of Washington State households [Internet]. Seattle: University of Washington School of Public Health Center for Public Health Nutrition; 2023 June [cited 2023 Aug 4]. Available from: <https://nutr.uw.edu/cphn/wafood/brief-13>.
- Anguzu G, Gupta AJ, Ochom E, **Tseng AS**, Zhang M, Barnabas RV, Flaxman AD, Katamba A, Davis JL, Ross JM. Frequency of HIV serodifferent couples within TB-affected households in a setting with a high burden of HIV-associated TB. *BMC Infect Dis*. 2023 Jun 9;23(1):388. doi: 10.1186/s12879-023-08365-y. PubMed PMID: 37296396; PubMed Central PMCID: PMC10251627.
- Otten JJ, Spiker ML, Dai J, **Tseng AS**, Buszkiewicz JH, Beese S, Collier SM, Ismach A. Food Security and Food Assistance in the Wake of COVID-19: A 4th Survey of Washington State Households [Internet]. Seattle: University of Washington School of Public Health Center for Public Health Nutrition; 2023 Feb [cited 2023 Apr 28]. Available from: <https://nutr.uw.edu/cphn/wafood/brief-12>.
- Doshi S, Kingston H, **Tseng AS**, Chohan BH, Sambai B, Guthrie BL, Monroe-Wise A, Mbogo LW, Masyuko S, Tram KH, Sinkela W, Macharia P, Bukusi D, Herbeck JT, Farquhar C. SARS-CoV-2 antibody prevalence, correlates, and access to harm reduction services among people who inject drugs living with and without HIV and their partners in Kenya. *Harm Reduct J*. 2023 Feb 23;20(1):21. doi: 10.1186/s12954-023-00754-5. PubMed PMID: 36823596; PubMed Central PMCID: PMC9947430.
- Tseng AS**, Sambai B, Monroe-Wise A, Mbogo LW, Ludwig-Barron NT, Masyuko SJ, Chohan BH, Scott JD, Sinkela W, Herbeck JT, Farquhar C, Guthrie BL. Assisted Partner Services for People Who Inject Drugs: Index Characteristics Associated With Untreated HIV in Partners. *J Acquir Immune Defic Syndr*. 2022 Nov 1;91(3):269-275. doi: 10.1097/QAI.0000000000003062. PubMed PMID: 35969466; PubMed Central PMCID: PMC9588565.
- Hill CM, **Tseng AS**, Holzhauer K, Littman AJ, Jones-Smith JC. Association between health care access and food insecurity among lower-income older adults with multiple chronic conditions in Washington State, USA. *Public Health Nutr*. 2023 Jan;26(1):199-207. doi: 10.1017/S1368980022001240. Epub 2022 May 23. PubMed PMID: 35603699.

- Mbogo LW, Sambai B, Monroe-Wise A, Ludwig-Barron NT, Guthrie BL, Bukusi D, Chohan B, Macharia P, Dunbar M, Juma E, Sinkale W, Gitau E, **Tseng AS**, Bosire R, Masyuko S, Musyoki H, Temu TM, Herbeck J, Farquhar C. Participation in methadone programs improves antiretroviral uptake and HIV viral suppression among people who inject drugs in Kenya. *J Subst Abuse Treat*. 2022 Mar;134:108587. doi: 10.1016/j.jsat.2021.108587. Epub 2021 Aug 8. PubMed PMID: 34391587.
- Yeh KB, Tabynov K, Parekh FK, Mombo I, Parker K, Tabynov K, Bradrick SS, **Tseng AS**, Yang JR, Gardiner L, Olinger G, Setser B. Significance of High-Containment Biological Laboratories Performing Work During the COVID-19 Pandemic: Biosafety Level-3 and -4 Labs. *Front Bioeng Biotechnol*. 2021;9:720315. doi: 10.3389/fbioe.2021.720315. eCollection 2021. PubMed PMID: 34485259; PubMed Central PMCID: PMC8414973.
- Tseng A**, Tolentino L, Seiler J, Issema R, Fisher M, Rowlinson E, Slaughter F, Fajans M, Fuller S, Green D, Loudon D, Drake A, Hahn W, Ross JM, Guthrie BL. Summary of Evidence Related to Travel, Hospitality and Service Industries, and COVID-19 Risk [Internet]. Seattle: University of Washington Alliance for Pandemic Preparedness; 2021 Apr [cited 2023 Apr 28]. Available from: <https://depts.washington.edu/pandemicalliance/covid-19-literature-report/in-depth-reports/>.
- Guthrie BL, **Tseng A**, Tolentino L, Seiler J, Issema R, Fisher M, Fuller S, Green D, Loudon D, Slaughter F, Fajans M, Rowlinson E, Drake A, Ross JM, Hahn WO. Summary of Evidence Related to the Risk of Other Infections in the Context of COVID-19 [Internet]. Seattle: University of Washington Alliance for Pandemic Preparedness; 2021 Mar [cited 2023 Apr 28]. Available from: <https://depts.washington.edu/pandemicalliance/covid-19-literature-report/in-depth-reports/>.
- Guthrie BL, **Tseng A**, Tolentino L, Seiler J, Issema R, Fisher M, Fuller S, Green D, Loudon D, Drake A, Hahn W, Ross JM. Summary of Evidence Related to Recreational, Youth, and Collegiate Sports and the Risk of COVID-19 [Internet]. Seattle: University of Washington Alliance for Pandemic Preparedness; 2021 Feb [cited 2023 Apr 28]. Available from: <https://depts.washington.edu/pandemicalliance/covid-19-literature-report/in-depth-reports/>.
- Tseng A**, Tolentino L, Seiler J, Issema R, Fisher M, Fuller S, Green D, Loudon D, Drake A, Hahn W, Guthrie BL, Ross JM. Summary of SARS-CoV-2 Novel Variants [Internet]. Seattle: University of Washington Alliance for Pandemic Preparedness; 2021 Feb [cited 2023 Apr 28]. Available from: <https://depts.washington.edu/pandemicalliance/covid-19-literature-report/in-depth-reports/>.
- Guthrie BL, Seiler J, Tolentino L, Jiang W, Fisher M, Issema R, Fuller S, Green D, Tordoff DM, Meisner J, **Tseng A**, Loudon D, Ross JM, Drake AL. Summary of Evidence Related to Schools During the COVID-19 Pandemic [Internet]. Seattle: University of Washington Alliance for Pandemic Preparedness; 2020 Oct [cited 2023 Apr 28]. Available from: <https://depts.washington.edu/pandemicalliance/covid-19-literature-report/in-depth-reports/>.
- Ross JM, Seiler J, Meisner J, Tolentino L, Jiang W, **Tseng A**, Fuller S, Green D, Tordoff, DM, Loudon D, Guthrie BL. Summary of COVID-19 Long-term Health Effects: Emerging Evidence and Ongoing Investigation [Internet]. Seattle: University of Washington Alliance for Pandemic Preparedness; 2020 Sep [cited 2023 Apr 28]. Available from: <https://depts.washington.edu/pandemicalliance/covid-19-literature-report/in-depth-reports/>.

Yeh K, Fair J, Cui H, Newman C, Braunstein G, Chanturia G, Vora S, Chittenden K, **Tseng A**, Monagin C, Fletcher J. Achieving Health Security and Threat Reduction through Sharing Sequence Data. *Trop Med Infect Dis*. 2019 May 14;4(2). doi: 10.3390/tropicalmed4020078. PubMed PMID: 31091687; PubMed Central PMCID: PMC6631123.

PRESENTATIONS

- **Oral Presentation**, “Tunes we’re not rocking out to: Substantial presence of heavy metals in *Escherichia coli* isolates from the Salish Sea ecosystem,” Annual Cascadia Symposium on Environmental, Occupational, and Population Health, January 2024
- **Poster Presentation**, “Comparing the Environmental Costs of Differentiated Service Delivery of Antiretroviral Therapy for People Living with HIV in Rural South Africa,” International Society for Pharmacoeconomics and Outcomes Research Europe 2023 Conference, November 2023
- **Oral Presentation**, “EPI 514 Survivor Talk: Health care access and food insecurity among lower-income older adults with multiple chronic conditions,” EPI 514 Application of Epidemiologic Methods, University of Washington School of Public Health, April 2023
- **Oral Presentation**, “EPI 514 Survivor Talk: Health care access and food insecurity among lower-income older adults with multiple chronic conditions,” EPI 514 Application of Epidemiologic Methods, University of Washington School of Public Health, March 2022
- **Oral Presentation**, “SEAL Team Deployment: Chelan-Douglas Health District,” EPI 594 Field Epidemiology: Student Epidemic Action Leaders Team, University of Washington School of Public Health, November 2021
- **Oral Presentation**, “SEAL Team Deployment: Washington State Department of Health School Outbreak Assessment of Policies and Procedures survey,” EPI 594 Field Epidemiology: Student Epidemic Action Leaders Team, University of Washington School of Public Health, October 2021
- **Oral Presentation**, “SEAL Team Deployment: Chelan-Douglas Health District,” EPI 583 Epidemiology Seminar Series, University of Washington School of Public Health, October 2021
- **Poster Presentation**, 9th Annual Epidemiology Master’s Student Day, Columbia University Mailman School of Public Health, October 2019
- **Oral Presentation**, “Building a Community-Based Housing Disaster Recovery GIS Application,” Earth Science Information Partners Annual Meeting, July 2019
- **Panelist**, Columbia University’s Biostatistics Epidemiology Summer Training Diversity Program, June 2019
- **Poster Presentation**, “Creating a Knowledge Sharing Hub for Biosecurity Using an Online Collaborative Tool,” American Public Health Laboratories Annual Meeting, June 2018
- **Oral Presentation**, “Creating a Knowledge-Sharing Hub for Biosecurity Using an Online Collaborative Tool,” Sequencing, Finishing, and Analysis in the Future 13th Annual Meeting, May 2018
- **Poster Presentation**, “Examining the Impact of the Schistosomiasis Control Initiative on Praziquantel Coverage in Sub-Saharan African Schoolchildren,” American Society of Tropical Medicine and Hygiene 66th Annual Meeting, November 2017

SCHOLARSHIPS & AWARDS

- **\$300 Travel Grant**, Graduate and Professional Student Senate, University of Washington, December 2023
- **\$300 Trainee Support Grant**, University of Washington/Fred Hutch Center for AIDS Research, November 2023
- **\$500 Graduate Student Conference Presentation Award**, The Graduate School, University of Washington, October 2023
- **\$500 Travel Award**, Department of Epidemiology, University of Washington, September 2023

- **\$2,000 James A. McDermott, M.D. Global Health Endowed Fellowship 2023-24**, University of Washington School of Public Health, May 2023
- **\$3,000 Walter A. Remak Scholarship 2023-24**, University of Washington School of Public Health, May 2023
- **U.S. National Institutes of Health, National Institute of Mental Health, Research Supplement to Promote Diversity in Health-Related Research**, Diversity Research Supplement Award for Dissertation Research, University of Washington, June 2022-2024
- **Exceptional Student Award**, Washington State Public Health Association, October 2021
- **U.S. National Institutes of Health, National Institute of Environmental Health Sciences, National Research Service Award (NRSA- T32 Predoctoral Fellowship)**, Biostatistics, Epidemiologic, and Bioinformatic Training in Environmental Health (BEBTEH) Training Grant, University of Washington, June 2021-2022
- **\$250 Student Award**, Department of Epidemiology, University of Washington, September 2020
- **U.S. National Institutes of Health, National Institute of Environmental Health Sciences, National Research Service Award (NRSA- T32 Predoctoral Fellowship)**, Biostatistics, Epidemiologic, and Bioinformatic Training in Environmental Health (BEBTEH) Training Grant, University of Washington, June 2020-2021
- **Best Poster of Infectious Disease Epidemiology Award**, Columbia University's 9th Annual Epidemiology Master's Student Practicum Research Day, October 2019
- **\$1,250 Travel Award**, 2019 Earth Science Information Partners Summer Meeting, July 2019
- **\$1,800 Travel Award**, McGill University Science Undergraduate Society Ambassador Fund, October 2017
- **First Place Prize**, "NTI-GHSN Biosecurity Competition Proposal: Addressing Biosecurity and Associated Technological Risks by Creating a Database to Knowledge-sharing and Utility," 2017 Nuclear Threat Initiative-Next Generation Global Health Security Network Biosecurity in the Global Health Security Agenda (GHSA) Competition for the 4th Annual High Level GHSA Ministerial Meeting in Kampala, Uganda, October 2017

COMMUNITY INVOLVEMENT

- **Volunteer**, the 30th Annual Conference on Retroviruses and Opportunistic Infections, February 2023
 - Supported the Conference Secretariat and Scientific Program Committee through acting as a room monitor for symposia and themed discussions, assisting in the abstract poster room, and answering conference attendee questions
- **Volunteer**, University of Washington, Department of Epidemiology PhD Enrollment and Funding Task Force, September 2022 – June 2023
 - The Department of Epidemiology convened a Task Force with faculty, staff, and PhD student members to address two interconnected aspects of the PhD program: 1) the recent successive years with substantially larger than anticipated enrollment; and 2) the expectation that admitted (and enrolled) PhD students must locate their own funding
 - The Task Force's mission is to investigate and deliberate on the multitude of issues that would be raised were the Department to change its PhD student funding model to be more in line with peer institutions, providing the Department with a recommendation for implementing a new PhD student funding model
- **Volunteer**, University of Washington, Department of Epidemiology Curriculum Committee, September 2021
 - Served on Anti-Racism & Equity, Diversity and Inclusion Sub-committee of the Curriculum Committee
 - Reviewed proposed changes in course materials or classroom teaching for the upcoming fall quarter course, "EPI 530: AIDS: Multidisciplinary Approach"

- Paired with a Department of Epidemiology faculty member to evaluate the course with
- Completed a rubric to individually evaluate the course then discussed the rubric with the paired faculty member
- **Volunteer**, University of Washington Student Epidemic Action Leaders (SEAL) Team, December 2020 – September 2021
 - Received training through the University of Washington, Department of Epidemiology to develop knowledge and skills in communicable disease and applied epidemiology in preparation for field assignments at the Washington State Department of Health (WADOH) and local health jurisdiction including outbreak investigations and other public health preparedness and response activities affecting the community at the time
 - From December 2020-June 2021, I was activated on a SEAL Team field assignment at the WADOH, helping conduct the School Outbreak Assessment of Policies and Practices survey to determine the incidence and transmission patterns of COVID-19 in Washington state schools
 - From August-September 2021, I was activated on a field assignment at the Washington State Chelan Douglas Health District to understand more about COVID-19 long-haulers through data collection and advanced analyses
- **Volunteer**, Ayi Can Help 501(c)(3) nonprofit organization, October 2020 – Present
 - Working with two US-based Taiwanese non-profit organizations, American Compassion Life Association and Global Compassion Life Foundation, to donate various PPE items to those in need over the past year
 - Coordinated PPE donations to Rainier Valley Midwives in Seattle, NicaPhoto in Nicaragua, to the Maasai Association in Kenya, and to the Chelan-Douglas Health District in Central Washington
 - For the Fall 2022 and 2023 Back-to-School Projects, I coordinated, packed, and delivered backpack and school supply donations to the Refugee Women's Alliance afterschool Science, Technology, Engineering, Art and Math program in Seattle, Washington
- **Volunteer**, Columbia COVID-19 Student Service Corps (CSSC), March 2020 – June 2020
 - The CSSC was created to support the NewYork-Presbyterian Hospital/Columbia University Irving Medical Center (NYP/CUIMC) health systems, their patients, and workforce through the COVID-19 pandemic
 - Volunteering with the Information Services Team, specifically focusing on Patient Education Materials and Design
 - Translating and proofreading educational materials on COVID-19 from English to Chinese
- **Application Reviewer**, EcoHealth Alliance EcoHealthNet Research Exchange Program, Spring 2020
 - Asked to serve as 1 of 12 application reviewers for the annual EcoHealthNet Research Exchange program
 - EcoHealthNet is an undergraduate and graduate-level global research coordination network, funded by the National Science Foundation, to bring together world-class research scientists from medical, ecology, veterinary, epidemiology, virology, anthropology, climate science, data science, and economics fields that will advance One Health research and education
- **Volunteer**, New York Cares, New York, New York, April 2019 – February 2020
 - Assisted the Cathedral Church of Saint John the Divine and Xavier Mission in New York City in preparing and serving a diverse menu of breakfast and lunch hot meals to over 200 homeless women and men
 - Helped the Chef prepare the hot meals for the first hour, including making sandwiches for brown bag lunches, then provided a one-hour buffet service for clients before cleaning up the dining area and kitchen during the last hour of the project

- **Competition Proposal Judge**, Nuclear Threat Initiative-Next Generation Global Health Security Network's Biosecurity in the Global Health Security Agenda (GHSA) Competition, 2018–2024
 - Asked to serve as an international biosecurity and biosafety subject matter expert judge in the annual Next Generation for Biosecurity Competition
 - Reviewed 3-4 proposals then discussed the top-scoring papers at a roundtable by Nuclear Threat Initiative, Next Generation Global Health Security Network, and the other judges
- **Meeting with the United States National Security Council**, The White House, Washington, DC, December 2017
 - Represented the Global Health Security Network Next Generation Network
 - Presented my biosecurity competition proposal on “Addressing Biosecurity and Associated Technological Risks by Creating a Database to Knowledge-sharing and Utility”
 - Discussed strategies to better train and engage the next generation of biosecurity leaders
- **Volunteer and Coordinator of Public Service Projects**, Evergreen Senior Care, Washington, DC, 2010 – 2018
 - Projects were three times a year: a back-to-school project, a Thanksgiving project, and a winter clothing drive
 - As a Coordinator (2012–2014):
 - Collaborated with the DC Providence Hospital and the Saint Joseph's School in Martinsburg, West Virginia
 - Raised donations to be able to purchase school supplies for the children of low-income families in these two areas and to purchase Thanksgiving meal products for these same families who cannot afford it
 - As a volunteer:
 - Purchased school supplies and Thanksgiving meal products
 - Assisted with the back-to-school packing of school supplies into backpacks at the end of each summer
 - Helped deliver packed backpacks to Second Story in Virginia which provides safe havens and opportunities for children, youth, and their families to grow and thrive
- **Volunteer**, Salvation Army FeedMore Program, Baltimore, Maryland, 2004 – 2018
 - Prepared hot and paper-bag meals for the homeless
 - Served hot meals and sandwiches on the Salvation Army FeedMore truck at 5 different stops around the city of Baltimore
 - Donated seasonal clothing, accessories, and travel-sized shower amenities as needed by the center