

CURRICULUM VITAE

NAME: Wilbert van Panhuis
BUSINESS ADDRESS: 130 DeSoto Street
A737 Crabtree Hall
Pittsburgh, PA 15261
Phone: +1 412 624 7693
E-mail:
wilbert.van.panhuis@pitt.edu

EDUCATION AND TRAINING

Graduate

1997 – 2004*	Free University Medical Center Amsterdam	MD, 2004	Medicine
2005 - 2009	Johns Hopkins Bloomberg School of Public Health Baltimore, MD	PhD, 2009	Global Disease Epidemiology and Control

Post-Graduate

2002	Communicable Disease Surveillance and Response Unit World Health Organization Western Pacific Regional Office (WPRO), Manila, The Philippines	Research internship	Dr. Hitoshi Oshitani, Global Health
2004 - 2005	Centre for Research on the Epidemiology of Disasters Université Catholique de Louvain, Brussels, Belgium	Postdoctoral fellowship	Dr. Debarati Guha- Sapir, Disaster Epidemiology

* *In The Netherlands, Medical School includes undergraduate and graduate training*

APPOINTMENTS AND POSITIONS

Academic

2009 - 2011	Visiting Assistant Professor	Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA
2011- 2020	Assistant Professor	Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA
2016-present	Assistant Professor	Department of Biomedical Informatics, School of Medicine, University of Pittsburgh, Pittsburgh, PA
2020-present	Associate Professor	Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA

Non-Academic

2003	Consultant	United Nations Standing Committee on Nutrition, Geneva, Switzerland
2017	Consultant	Metabiota, San Francisco, CA

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

2018 - present	American Medical Informatics Association (member)
2018 - present	International Society for Disease Surveillance (member)
2018 - present	International Society for Infectious Diseases (member)
2019 - present	Research Data Alliance (member)

HONORS

2006	Dr. Henry K. and Lola Beye Scholarship. Johns Hopkins Bloomberg School of Public Health, Baltimore MD
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- 2007 The Bradley Sack Family Scholarship Award. Johns Hopkins Bloomberg School of Public Health, Baltimore MD
- 2007 The Clements-Mann Fellowship. Johns Hopkins Bloomberg School of Public Health, Baltimore MD
- 2008 Dr. Henry K. and Lola Beye Scholarship. Johns Hopkins Bloomberg School of Public Health, Baltimore MD
- 2009 The Nancy Stephens Student Support Fund, Johns Hopkins Bloomberg School of Public Health, Baltimore MD
- 2009 The David and Elinor Bodian Scholarship Fund, Johns Hopkins Bloomberg School of Public Health, Baltimore MD
- 2010 Phi Beta Kappa
- 2013 Elected for University of Pittsburgh Senior Vice Chancellor Research Seminar Series
- 2014 University of Pittsburgh nominee for the Top 10 Clinical Research Achievement Awards
- 2015 Elected by NIH Director to be featured in the weekly NIH Director's blog, based on study "Climate and Viral Illness: El Niño Event Linked to Dengue Epidemics"
- 2015 Selected for University of Pittsburgh Health Sciences Leadership Academy for Early Career Faculty

PROFESSIONAL ACTIVITIES

1. Teaching

a. Courses Taught

Years Taught	Course Number: Title	Hours of Lecture, credits Average Enrollment	Role in course Primary/Coordinator
2011-2012	EPID 2160, Infectious Disease Epidemiology	2 credits, 35 students	Co-instructor
2011-2014	PUBHLT-2025, Concepts and Methods in Global Health	2 credits, 20 students	Primary instructor
2015-present	EPID 2163, Global Epidemiology of Vaccines and Vaccination	2 credits, 24 students	Primary instructor
2019-present	EPID 2160, Infectious Disease Epidemiology	2 credits, 35 students	Co-instructor

b. Other Teaching (lectures, tutorials and continuing education courses)

Date(s)	Type of Teaching	Title
2010	Guest lecturer in graduate course PUBHLT 2009	Critical Issues in Global Health
2011	Guest lecturer in graduate course PUBHLT 2014	Public Health Overview
2012	Organizer of International workshop in Vientiane, Lao PDR	Surveillance and Modeling of Dengue
2012	Guest lecturer in undergraduate summer course in Pittsburgh, PA	Models of Infectious Disease Agent Study Summer Course
2011-2012	Guest lecturer in undergraduate course PUBHLT 1001	Introduction in Global Health
2013	Organizer of national roundtable organizer at the Bill & Melinda Gates Foundation, Seattle, WA	Open Data and Platforms: Advancing the use of public health data for decision making
2013-2018	Guest lecturer in graduate course EPID 2160	Infectious Disease Epidemiology

Date(s)	Type of Teaching	Title
2014	Organizer of international workshop in Pittsburgh, PA	Public Health Dynamics Lab International Fellowship workshop on data and modeling,
2014	Organizer of international workshop in Belém, Brazil	Dengue surveillance data and modeling for government representatives in Latin America.
2014-2016	Guest lecturer in graduate course EPID 2230	Advanced Topics in Epidemiological Methods
2015	Guest lecturer in graduate course LIS 2677	Research Data Infrastructures
2016	Organizer of international workshop in Kuala Lumpur, Malaysia	Dengue surveillance, climate, and forecasting for government representatives in Southeast Asia
2016-present	Guest lecturer in graduate course BIOINF 2011	Foundations of Clinical and Public Health Informatics
2017	Organizer of national focus group at the National Association of City and County Health Officials, Pittsburgh, PA	Vaccination coverage and vaccine impact estimation
2017	Lecturer in international summer school in Qui Nhon, Vietnam	Computational Biology of Infectious Diseases Southeast Asia
2018	Organizer of international workshop in Antwerp, Belgium	Estimating the impact of routine childhood vaccination in Europe

Date(s)	Type of Teaching	Title
2018	Lecturer in international workshop in Delhi, India	E-Capacity workshop for data analytics and modeling
2019	Organizer of modeling conference for undergraduate students from underrepresented groups in Boston, MA	Eighth Annual Conference to Increase Diversity in Mathematical Modeling and Public Health

c. Major Advisor for Graduate Student Essays, Theses, and Dissertations

Name of Student	Degree Awarded, Year	Type of Document and Title	Notes
Erin Jenkins	MPH Epidemiology, University of Pittsburgh, 2013	MPH Essay "The Relationship Between Local Temperature Range and Annual Seasonality of Measles in the United States: 1924 - 1948"	<u>Current:</u> Surveillance Officer, MD Department of Health
Lori Phillips	MPH Behavioral & Community Health Sciences, University of Pittsburgh, 2014	MPH Essay "A geospatial analysis of Dengue fever in Cambodia from 2002 to 2012"	<u>Current:</u> Health Scientist, US CDC
Kayleigh Blaney	MPH Epidemiology, University of Pittsburgh, 2014	MPH Essay "Summary of vaccination status of students within Allegheny County during the 2012-2013 school year"	<u>Current:</u> Epidemiologist, Oakland County Health Division, MI

Name of Student	Degree Awarded, Year	Type of Document and Title	Notes
Stephanie Johnson	MPH Epidemiology, University of Pittsburgh, 2014	MPH Essay "Twenty years of dengue surveillance at a Ministry of Health Hospital in Kamphaeng Phet, Thailand, 1994-2013"	<u>Current:</u> PhD student, Washington State University
Scott McGonagle	MPH Epidemiology, University of Pittsburgh, 2015	MPH Essay "Effectiveness of trap-spay/neuter-return programs on free-roaming cats as a form of rabies prevention"	<u>Current:</u> Quality Assurance Control Specialist, Immunetics
Guido Camargo	PhD Electrical Engineering, National University of Colombia, 2015	PhD Thesis (completed in Pittsburgh) "Large-scale agent-based model of vector-borne diseases to evaluate control programs, case Chikungunya in Colombia"	<u>Current:</u> Postdoc at University of Notre Dame
Lindsay Bow	MPH Epidemiology, University of Pittsburgh, 2015	MPH Essay "Differential All-Cause Excess Mortality of the 1918 Influenza Pandemic in the U.S. Registration Area"	<u>Current:</u> Infection Control Epidemiologist at Johns Hopkins Hospital
Michael Sharbaugh	MPH Epidemiology, University of Pittsburgh, 2015	MPH Essay "Quantifying the impact of the measles vaccine by estimating the number of measles cases prevented for each state from 1964 to 2010"	<u>Current:</u> Senior Data Analyst, University of Pittsburgh Health Policy Institute

Name of Student	Degree Awarded, Year	Type of Document and Title	Notes
Sonja Nakasian	MS Epidemiology and Public Health, Ludwig Maximilian University of Munich, Germany, 2015	MS Thesis "Resurgence of Vaccine Preventable diseases in the past 19 years (1995-2014) – Surveillance of Measles, Mumps, Rubella & MMR vaccination rates"	<u>Current:</u> Epidemiologist at Amgen
Ashley Vineyard	MPH Epidemiology, University of Pittsburgh, 2016	MPH Thesis "Spatial and temporal trends of dengue hemorrhagic fever in Myanmar from 2004 to 2014"	<u>Current:</u> Program Analyst at Council of State and Territorial Epidemiologists
Leah Goeke	MPH Epidemiology, University of Pittsburgh, 2018	MPH Essay: "An exploratory analysis of the relationship between Aflatoxins and growth impairment in children from Zambia"	<u>Current:</u> Information/Surveillance Fellow at PHI/CDC Global Health Fellowship Program, Tanzania
Scott Chadwell	MPH Infectious Diseases & Microbiology, University of Pittsburgh, 2018	MPH Essay: "Spatial Heterogeneity of MMR Vaccine Coverage: New York School Districts, 2014-2015"	<u>Current:</u> Researcher at Ohio Department of Health
Christian Garcia	PhD Epidemiology, University of Pittsburgh, 2019	PhD Thesis: "A wavelets and multilevel analysis to determine spatial dependencies of seasonal influenza, and its association with weather and pollution across Chile 2010-2016"	<u>Current:</u> Senior officer at the Chile Ministry of Health
Jonathan Haposan	MPH Epidemiology, University of Pittsburgh, 2019	MPH Essay: "Provenance of data and input parameters of epidemic models"	<u>Current:</u> Staff at Indonesia Ministry of Higher Education

Name of Student	Degree Awarded, Year	Type of Document and Title	Notes
Xinying Liu	MPH Epidemiology, University of Pittsburgh, 2019	MPH Essay: "Spatial patterns of measles vaccine exemptions in Washington state: 2014- 2018"	<u>Current:</u> Information not available
Tenley Brownwright	PhD Epidemiology, University of Pittsburgh, 2019	PhD Thesis: "Heterogeneity of vaccination coverage in the US and Africa"	<u>Current:</u> Postdoc at Penn State University
Kharlya Carpio	MPH Epidemiology, University of Pittsburgh, 2020	MPH Essay: "Determinants of Human Papillomavirus Vaccination Coverage In Young Women Across 76 Countries"	<u>Current:</u> Research Assistant MIDAS Coordination Center, University of Pittsburgh
Meghan Matlack	PhD Environmental and Occupational Health, 2021	PhD Thesis: "Spatial- temporal analysis of vector-borne diseases in Brazil"	Expected graduation 2021
Jessica Salerno	PhD Epidemiology, University of Pittsburgh	PhD Thesis project on COVID-19 modeling	Currently in program
Hannah Polglase	PhD Epidemiology, University of Pittsburgh	PhD Thesis: "Spatial- temporal analysis of dengue in Recife, Brazil"	Currently in program
Dasha Pokutnaya	PhD Epidemiology, University of Pittsburgh	PhD Thesis project on reproducibility of COVID-19 modeling research	Currently in program
Alice Arcury- Quandt	PhD Epidemiology, University of Pittsburgh	PhD Thesis project on sero-epidemiology of COVID-19	Currently in program

d. Service on Masters or Doctoral Committees

Dates Served	Name of Student	Degree Awarded	Title of Dissertation/Essay
2014	Yu Ting Weng	PhD Biostatistics, University of Pittsburgh	Statistical methods for fitting dengue disease models, and related issues
2014-2015	Maura Maloney	PhD Epidemiology, University of Pittsburgh	Analysis of the REMEDIES 4D clinical trial: a redesign of primary care to overcome clinical inertia and improve outcomes
2015-2017	Zhang Zhang	PhD Mathematics, University of Pittsburgh	Sequential Clustering via Recurrence Network Analysis
2015-2016	Megan Ziegler	MPH Health Policy & Management, University of Pittsburgh	Vaccines: how requirements and exemptions affect vaccination rates, disease prevalence, and herd immunity within the United States?
2015-present	William Herland	PhD Machine Learning and Public Policy, Carnegie Mellon University	Scalable models for multidimensional prediction and causal inference
2017-2018	Matt Loiacono	MS Biostatistics, University of Pittsburgh	Sample Size Estimation and Power Calculations for Vaccine Efficacy Trials for Exceedingly Rare Diseases
2018-2019	Emily Bobyock	MPH Epidemiology, University of Pittsburgh	Influenza Vaccine Effectiveness among Outpatients in Pittsburgh: Combined Results from Five Seasons of the US Flu Vaccine Effectiveness Network Study 2011-2016
2019-2020	Elizabeth Owens	MPH Epidemiology, University of Pittsburgh	Challenges in Efforts to Control Yellow Fever Outbreaks in Brazil Since 2016: A Literature Review

e. Service on Comprehensive or Qualifying Examination Committees

Dates Served	Student Population	Type of Exam (Qualifying/Comprehensive)
2018	1 DrPH Epidemiology, 1 PhD Epidemiology	Comprehensive and Qualifying Exams
2017	1 PhD Epidemiology	Comprehensive Exams
2016	1 PhD Mathematics, 1 PhD Machine Learning	Comprehensive Exams
2014	1 PhD Biostatistics, 1 PhD Epidemiology	Comprehensive Exams

f. Supervision of Post-Doctoral Students, Residents, and Fellows

Dates Supervised	Name of Student	Position of Student
2009 - 2013	Supriya Kumar, PhD MPH, Postdoc Epidemiology, University of Pittsburgh	<u>Current:</u> Program Officer Bill & Melinda Gates Foundation
2012 - 2013	Irene Ruberto, PhD, Postdoc Epidemiology, University of Pittsburgh.	<u>Current:</u> Surveillance Epidemiologist at the Arizona Department of Health Services
2014 - 2015	Anusha Viswanathan, MD, Infectious Diseases fellow, Pediatric Infectious Diseases, UPMC Children's Hospital Pittsburgh	<u>Current:</u> Assistant Professor Jersey Shore University Medical Center Hackensack-Meridian Health
2015-2018	Zan Dodson, PhD, Postdoc Health Policy and Management, University of Pittsburgh	<u>Current:</u> Director, Program Management & Research at American Association of Geographers
2016-2018	Angel Paternina, MD MS, Postdoc Health Policy and Management, University of Pittsburgh	<u>Current:</u> Applicant Oxford University

g. Mentoring of Graduate Students in Field Placements

Dates	Name of Student	Degree/Program Description	Field Site
2013	Sarah Dickin	PhD Geography, McMaster University, Canada	FioCruz Laboratory, Récife, Brazil
2013	Lori Phillips	MPH Behavioral & Community Health Sciences, University of Pittsburgh	Cambodia Ministry of Health, Phnom Penh, Cambodia
2013	Kayleigh Blaney	MPH Epidemiology, University of Pittsburgh	Allegheny County Health Department, Pittsburgh, PA, United States
2014	John Rossow	PhD Veterinary Medicine, University of Georgia	FioCruz Laboratory, Récife, Brazil
2015	Yuruo Li	MPH Epidemiology, University of Pittsburgh	South African Centre for Epidemiological Modelling and Analysis, Stellenbosch, South Africa
2015	Stephanie Johnson	MPH Epidemiology, University of Pittsburgh	Armed Forces Research Institute for Medical Sciences, Bangkok, Thailand
2015	Ashley Vineyard	MPH Epidemiology, University of Pittsburgh	University of Public Health, Yangon, Myanmar
2017	Matt Loiacono	MS Biostatistics, University of Pittsburgh	Sanofi Pasteur, Swiftwater, PA, United States

h. Other Teaching and Training

Dates	Teaching Activity	Program/Description
2010	Undergraduate research mentor	Thomas Bryant, Models of Infectious Disease Agent Study Summer Program, University of Pittsburgh
2012	Undergraduate research mentor	Raaka Kumbhakar, BS History and Philosophy of Science, University of Pittsburgh Honors College; Fullbright research internship at the Hanoi School of Public Health, Vietnam
2013	Undergraduate research mentor	Sandhya Subramanian, BS Rehabilitation Science, University of Pittsburgh College of Arts & Sciences BIOSC 1903 Undergraduate Research
2013	Undergraduate research mentor	Mary Brooke Umhau, BS Biology, University of Pittsburgh, First Experience in Research Program
2013	Undergraduate research mentor	Anish Kumar, BA Linguistics, University of Pittsburgh, First Experience in Research Program
2013	Undergraduate research mentor	Linda Huang, PharmD (undergraduate in professional program), University of Pittsburgh, First Experience in Research Program
2013	Undergraduate research mentor	Jenna Geiman, BS Russian Language and Literature, First Experience in Research Program
2013	Undergraduate research mentor	Victor Martinez, BS Biological Sciences, University of Missouri Models of Infectious Disease Agent Study Summer Program, University of Pittsburgh
2013	Undergraduate research mentor	Lifan Zhang, BS Computer Science & Biology, Emory University, Models of Infectious Disease Agent Study Summer Program, University of Pittsburgh
2013	Undergraduate research mentor	Elizabeth Mitgang, BS Global Health & Urban Studies, University of Pittsburgh, Models of Infectious Disease Agent Study Summer Program, University of Pittsburgh

Dates	Teaching Activity	Program/Description
2013-2015	Undergraduate BPhil thesis advisor	Miriam Frisch, BPhil Global Health & Urban Studies, University of Pittsburgh Honors College BPhil Research Program
2014-2015	Undergraduate research mentor	Corinne Clinch, BS Biomedical Engineering, Carnegie Mellon University, Models of Infectious Disease Agent Study Summer Program, University of Pittsburgh
2017	Undergraduate research mentor	Haley Aull, BS Microbiology, University of Pittsburgh, First Experience in Research Program
2017	Undergraduate research mentor	Alison Leihgeber, BS Biology, University of Pittsburgh, First Experience in Research Program
2017	Undergraduate research mentor	Megha Sarada, BS Biology, University of Pittsburgh, First Experience in Research Program
2017	Undergraduate research mentor	Ana Driscoll, BS Biology, University of Pittsburgh, First Experience in Research Program
2017	Undergraduate research mentor	Askhil Reddy, BS Bioinformatics, University of Pittsburgh, First Experience in Research Program
2017	Undergraduate research mentor	Keerthana Samanthapudi, BS Biology, University of Pittsburgh, First Experience in Research Program
2017	Undergraduate research mentor	Elizabeth Schnmitz, BS Bioinformatics, University of Pittsburgh, First Experience in Research Program
2017	Undergraduate research mentor	Victor Morrell, BS Chemistry, University of Pittsburgh, First Experience in Research Program
2017	High School research mentor	Austin Chen, Westfield High School, Westfield, NJ, Computer Science, Biology and Biomedical Informatics Summer Program, Department of Biomedical Informatics, University of Pittsburgh

Dates	Teaching Activity	Program/Description
2018	Undergraduate research mentor	Katie Milliken, BS Bioinformatics, University of Pittsburgh, Internship in Biomedical Research, Informatics, and Computer Science, Department of Biomedical Informatics, University of Pittsburgh
2018	Undergraduate research mentor	Geeta Acharya, BA Human Health and Psychology, Emory University, Project Tycho summer research, University of Pittsburgh
2018	Undergraduate research mentor	Wanyan Ma, BS Economics and History of Art and Architecture, University of Pittsburgh Honors College, Project Tycho summer research, University of Pittsburgh
2018	Undergraduate research mentor	Ashmita Rajkumar, BS Bioinformatics, University of Pittsburgh, Project Tycho summer research, University of Pittsburgh
2018-2019	Graduate research mentor	Emily Fitzpatrick, MPH Epidemiology, University of Pittsburgh, Independent study, University of Pittsburgh
2019-2020	Graduate research mentor	Kharlya Carpio, MPH Epidemiology, University of Pittsburgh, MPH Practicum, University of Pittsburgh
2020	Graduate research mentor	Lizz Picolli, MPH Epidemiology, University of Pittsburgh, MPH Practicum, University of Pittsburgh
2020	Graduate research mentor	Claire McGreavy, MPH Infectious Disease Management, Intervention, and Community Practice, University of Pittsburgh, MPH Practicum, University of Pittsburgh
2020	Graduate research mentor	Bridget Brassil, MPH Epidemiology, University of Pittsburgh, MPH Practicum, University of Pittsburgh
2020	Graduate research mentor	Ryan Katz, MPH Epidemiology, University of Pittsburgh, MPH Practicum, University of Pittsburgh

Dates	Teaching Activity	Program/Description
2020	Graduate research mentor	Kavya Hiriyur, MPH Epidemiology, University of Pittsburgh, MPH Practicum, University of Pittsburgh
2020	Graduate research mentor	Elora Kalix, MPH Epidemiology, University of Pittsburgh, MPH Practicum, University of Pittsburgh
2020	Graduate research mentor	Matthew Duespohl, MPH Infectious Disease Pathogenesis, Eradication, and Laboratory Practice, University of Pittsburgh, MPH Practicum, University of Pittsburgh
2020	Graduate research mentor	Alexander Spenceley, MPH Epidemiology, University of Pittsburgh, MPH Practicum, University of Pittsburgh

2. Research and Training

a. Grants and Contracts Received

Principal Investigator

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2013-2018	OPP109193, Application of computational models to guide and evaluate global infectious disease control programs: Project 1, Open platforms for data sharing and modeling	Gates Foundation	\$115,000	10%
2015-2019	OPP109193, Application of computational models to guide and evaluate global infectious disease control programs: Project 1, Open platforms for data sharing and modeling	NIGMS	\$65,000	10%*
2015-2020	1K01HG008840, Data integration for global population health through dynamic models	NIH BD2K	\$160,000	60%

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2015-2020	3K01ES026836-02S1, Administrative Supplement for Data integration for global population health through dynamic models	NIH BD2K	\$8,600	0%
2017-2018	A workshop to explore the systematic assessment of the historical impact of childhood vaccination in Europe	Sanofi Pasteur, GSK	\$90,348	0%
2019	Creating a country-specific online dashboard to track progress of Human Papillomavirus elimination.	WHO	\$49,999	0%
2019-2024	1U24GM132013, Models of Infectious Disease Agent Study Coordination Center	NIGMS	\$880,000	35%
2020	Adopting RDA Metadata Recommendations for Observational Data in Health	Resselaer Polytechnic Institute, NSF	\$25,000	5%
2020-2021	1U24GM132013 Administrative Supplement, Accelerating COVID-19 modeling research by improving the discovery and new use of data: leveraging community engagement and automation of curation workflows	NIGMS	\$250,000	25%
2020-2021	1U24GM132013 Administrative Supplement, COVID-19 Modeling Urgent Grant Program for the Modeling of Infectious Disease Agent Study	NIGMS	\$702,234	25%

* Effort subsumed under K01, as no effort could be from other Federal funding

Co-Investigator on Grants

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2008-2013	OPP 49275, Application of computational models to guide and evaluate global infectious disease control programs (PI: Donald Burke)	Gates Foundation	\$2,5 million	75
2009-2014	5U54GM088491, Modeling of Infectious Disease Agents Center of Excellence (PI: Donald Burke)	NIGMS	\$2.3 million	25
2011-2014	Public Health Dynamics Laboratory International Fellows Program I (PI: Donald Burke)	Benter Foundation	\$75,000	5
2014-2018	Public Health Dynamics Laboratory International Fellows Program II (PI: Donald Burke)	Benter Foundation	\$80,000	0
2015-2018	R25TW009717, Empowering Indian health researchers with computational modeling tools (PI: Clare Bunker)	NIH Fogarty	\$33,000	0
2019-2024	U01IP00121-01-00, Delphi influenza forecasting center for excellence	CDC	\$34,000	10%

b. Invited Lectureships and Major Seminars Related to Your Research

Date	Title of Presentation	Venue
2010	Open access to public health data	Emory University, Atlanta GA, United States
2011	Project Tycho: open access to public health data	Public Health Dynamics Laboratory Seminar, Pittsburgh, PA, United States
2011	Global access to local dengue surveillance data	Partnership for Dengue Control, San Juan, Puerto Rico
2012	Global sharing of dengue surveillance data	Regional meeting on dengue prevention and control, New Delhi, India

Date	Title of Presentation	Venue
2013	Open access to a century of infectious disease surveillance in the United States	Pediatric Grand Rounds, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States
2013	Open access to a century of infectious disease surveillance in the United States	University of Pittsburgh Senior Vice Chancellor's Lecture Series, Pittsburgh, PA, United States
2013	Project Tycho: open access to public health data	Department of Epidemiology Seminar, Pittsburgh, PA, United States
2013	Polio modeling meta-model	Bill & Melinda Gates Foundation – CDC consultation on polio modeling, Atlanta, GA, United States
2013	Integrating dengue surveillance data for decision making	Partnership for Dengue Control, Annecy, France
2013	Barriers to Public Health Data Sharing	Bill & Melinda Gates Foundation Conference on modeling, Seattle, WA, United States
2014	A century of infectious disease surveillance in the United States	US Food and Drug Administration, Silver Spring, MD, United States
2014	Data Sharing in Disease Surveillance	Chatham House London, United Kingdom
2014	Open access to newly digitized US weekly Notifiable Disease Surveillance data 1888-Present	International Society of Disease Surveillance, Webinar
2014	125 years of US Notifiable Disease Surveillance: the impact of vaccination programs	Research Institute of Health and the Environment, Bilthoven, The Netherlands
2014	Open access to newly digitized US weekly Notifiable Disease Surveillance data 1888-Present	Research and Policy for Infectious Disease Dynamics Conference, Copenhagen, Denmark
2014	Data needs for dengue epidemic prediction	Office of Science Technology Policy, Washington, DC, United States
2014	Open access to public health data	National Network of Libraries of Medicine, Webinar

Date	Title of Presentation	Venue
2014	Integrating data for science and decision making	Global Health Equity Lecture, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States
2014	Contagious diseases in the United States from 1888 to the present	Infectious Diseases Grand Rounds, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States
2014	Modeling for dengue vaccine introduction	Expert consultation on dengue modeling, Belém, Brazil
2014	Dengue modeling for vaccine introduction: report from the Belém workshop	World Health Organization, Geneva, Switzerland
2015	Project Tycho: using historical disease surveillance data to advance public health now	University of California, Irvine, CA, United States
2015	Using large-scale disease surveillance data at high spatiotemporal resolution to reveal population-scale disease dynamics	Department of Epidemiology Seminar, University of Pittsburgh, Pittsburgh, PA, United States
2015	Using data from the past to improve population health now: the impact of vaccination	Science 2015, Pittsburgh, PA, United States
2015	Project Tycho: using historical disease surveillance data to advance public health now	North Boroughs Rotary Club, Pittsburgh, PA, United States
2015	Project Tycho: improving the use of historical disease data for public health	University of Pittsburgh Alumni Reception, Palo Alto, CA, United States
2015	Improving access and use of data for global population health	Google Earth Engine Summit, Mountain View, CA, United States
2016	High temperatures and region-wide dynamics of dengue transmission in Southeast Asia: 2016 prospects and beyond	Dengue and climate consultation Kuala Lumpur, Malaysia
2016	Impact of El Niño on Synchronous Dengue Transmission: using large scale data for population health	University of Malaya High Impact Research Seminar Kuala Lumpur, Malaysia

Date	Title of Presentation	Venue
2016	Integration of large scale data for global population health	Health Analytics and Disease Modeling Conference, Hyderabad, India
2016	Integration of large scale data for epidemic forecasting: dengue in SE Asia	White House OSTP Pandemic Prediction and Forecasting Science and Technology Working Group, Washington, DC, United States
2016	Vaccine introduction decisions: from data to model to policy	Asia-Pacific Dengue Prevention Board Meeting, Kuala Lumpur, Malaysia
2016	Big Data and Population Health Informatics to Counter Epidemic Threats	Pitt-Tsinghua Symposium, Beijing, China
2016	Big Data and Population Health Informatics to Counter Epidemic Threats	China Centers for Disease Control, Beijing, China
2016	Preventing the Spread of Diseases Across Borders	Allegheny County Immunization Coalition, Pittsburgh, PA, United States
2016	Population health informatics to counter epidemic threats: data integration and epidemic simulation	Department of Biomedical Informatics Seminar, University of Pittsburgh, Pittsburgh, PA, United States
2016	Region-wide synchrony and traveling waves of dengue across eight countries in Southeast Asia	University of Pittsburgh Department of Geology Seminar Pittsburgh, PA, United States
2017	Data integration for population health: impact of vaccination programs and simulating epidemic disease dynamics	Department of Medical Microbiology Seminar, Radboud University Medical Center, Nijmegen, The Netherlands
2017	An open source modeling system called FRED (Framework for Reconstructing Epidemiological Dynamics)	Simulation Models of Infectious Diseases Annual Meeting, Antwerp, Belgium
2017	Using large-scale data to improve epidemic preparedness in global health	Mandela Fellows Public Health Seminar, University of Pittsburgh, Pittsburgh, PA, United States

Date	Title of Presentation	Venue
2017	Data integration to counter epidemic threats: computational models of vector-borne diseases	Department of Infectious Diseases and Microbiology Seminar, University of Pittsburgh, Pittsburgh, PA, United States
2017	Improving data availability in global health: dengue dynamics in eight Southeast Asian countries	Keynote lecture at Computational Biology of Infectious Diseases, Hanoi, Vietnam
2017	Project Tycho 2.0: improving data access for epidemic modeling in global health	Harvard Diversity Conference in Mathematical Modeling & Public Health, Boston, MA, United States
2018	Large-scale data analysis in global health: dengue transmission in Southeast Asia	Michalik Lecture Pre-event Panel, University of Pittsburgh, Pittsburgh, PA, United States
2018	Research at the interface of epidemiology and global health informatics to improve epidemic control strategies	Epidemiology Seminar, University of Massachusetts Amherst, Amherst, MA, United States
2018	Data integration for population health: impact of vaccination programs in the United States	Vaccine Impact Workshop, Antwerp, Belgium
2018	Improving data access and standardization for epidemic modeling in global health	Symposium on health analytics and disease modeling, Delhi, India
2018	Project Tycho 2.0	Institute of Disease Modeling Annual Symposium, Seattle, WA, United States
2018	Project Tycho: digitizing and standardizing over a century of US infectious disease data	Studying the history of Health in Port cities (SHiP) research network Annual Meeting, Copenhagen, Denmark
2018	Vaccine Decision Information System	World Health Organization Immunization and vaccines related implementation research advisory committee (IVIR-AC). Menthon-Saint-Bernard, France

Date	Title of Presentation	Venue
2018	Vaccine Decision Information System: HPV Country Dashboard	World Health Organization Strategic Advisory Group of Experts on Immunization (SAGE) HPV working group. Menthon-Saint-Bernard, France
2018	Vaccine Decision Information System	World Health Organization Strategic Advisory Group of Experts on Immunization (SAGE). Geneva, Switzerland
2018	Project Tycho 2.0: improving data access for epidemic modeling in global health	Harvard Diversity Conference in Mathematical Modeling & Public Health, Boston, MA, United States
2019	Making lazy data active for global infectious disease modeling	Department of Epidemiology Seminar, University of Pittsburgh, Pittsburgh, PA, United States
2019	Project Tycho: Making lazy data active for global infectious disease modeling	Pennsylvania State University Center for Infectious Disease Dynamics Seminar, State College, PA, United States
2019	Project Tycho: Curating and Redistributing Spatial Datasets for Global Health	Panel Discussion at American Association of Geographers Annual Meeting, Washington, DC, United States
2019	High-resolution vaccination coverage data to assess spatial heterogeneity and inequality of vaccination coverage and disease outbreak risk in countries around the world	Global health inequities and infectious diseases workshop, University of Pittsburgh School of Law, Pittsburgh, PA, United States
2019	MIDAS Network Coordination Center	MIDAS Annual Network Meeting, Bethesda, MD, United States
2019	Data Challenges for Infectious Disease Modeling and a Way Forward	Arbovirus seasonality workshop, Imperial College, London, United Kingdom

Date	Title of Presentation	Venue
2019	Finding and Integrating Data for Infectious Disease Modeling	Department seminar, Centre for Mathematical Modeling of Infectious Diseases, London School of Hygiene and Tropical Medicine, London, United Kingdom
2019	Finding and Integrating Data for Infectious Disease Modeling	Department colloquium, Department of Biomedical Informatics, University of Pittsburgh, Pittsburgh, PA, United States
2019	Models of Infectious Disease Agent Study and COVID-19	Department seminar, Department of Epidemiology, University of Pittsburgh, Pittsburgh, PA, United States
2019	From rapid COVID-19 data sharing to sustainable infrastructure for global health	Science and Law: Navigating through COVID-19, Online webinar
2019	Models of Infectious Disease Agent Study	Webinars for the NIGMS Training Community, Online webinar.

c. Other Research and Training Activities

Date	Position	Description of Activity
2013	Lead inventor	Invention disclosure, Project Tycho 2.0 data repository for global health, University of Pittsburgh, Pittsburgh, PA, United States

PUBLICATIONS

1. Refereed Articles

1. Guha-Sapir D, **Van Panhuis WG**. The importance of conflict related mortality in civilian populations. *Lancet* 2003; 361:2126-28.
2. Guha-Sapir D, **Van PanhuisWG**. Conflict related mortality: an analysis of 37 datasets. *Disasters* 2004 Dec;28 (4):418-428.

3. Guha-Sapir D, **Van Panhuis WG**, Degomme O, Teran V. Civil conflict in four African countries, a five year review of trends in nutrition and mortality. *Epidemiological Reviews* 2005;27:66-77.
4. Guha-Sapir D, **Van Panhuis WG**, Lagoutte J. Aid after disasters: evidence for psychosocial services needs strengthening. *BMJ* 2005 Jul 2;331(7507):50.
5. Guha-Sapir D, **Van Panhuis WG**, Lagoutte J. Patterns of chronic and acute diseases after natural disasters, a study from the International Committee of the Red Cross field hospital in Banda Aceh after the 2004 Indian Ocean tsunami. *Trop Med Int Health* 2007;12 (11):1338-41.
6. Guha-Sapir D, **Van Panhuis WG**. Disease Occurrence in Natural Disasters, An analysis of the Health Impact of the 2004 Andaman Nicobar Earthquake and Tsunami in Indonesia. *Prehosp Dis Med* 2009;24 (6): 493-499.
7. **Van Panhuis WG**, Gibbons RV, Endy TP, Rothman AL, Srikiatkachorn A, Nisalak A, Burke DS, Cummings DA. Inferring the serotype associated with dengue virus infections on the basis of pre- and postinfection neutralizing antibody titers. *J Infect Dis.* 2010 Oct 1;202(7):1002-10.
8. Lee BY, Assi TM, Rookkapan K, Connor DL, Rajgopal J, Sornsrivichai V, Brown ST, Welling JS, Norman BA, Chen SI, Bailey RR, Wiringa AE, Wateska AR, Jana A, **Van Panhuis WG**, Burke DS. Replacing the measles ten-dose vaccine presentation with the single-dose presentation in Thailand. *Vaccine.* 2011 May 12;29(21):3811-7.
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14. **Van Panhuis WG**, Hyun S, Blaney K, Marques Jr. ETA, Coelho GA, Siqueira Jr. JB, Tibshirani R, Da Silva Jr. JB, Rosenfeld R. Risk of dengue for tourists and teams during the World Cup 2014 in Brazil. *PLOS NTD* 2014;8(7): e3063.
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16. Ruberto I, Marques E, Burke DS, **Van Panhuis WG**. The availability and consistency of dengue surveillance data provided online by the World Health Organization. *PLoS Negl Trop Dis*. 2015 Apr 14;9(4):e0003511.
17. **Van Panhuis WG**, Choisy M, Xiong X, Chok NS, Akarasewi P, Iamsirithaworn S, Lam SK, Chong CK, Lam FC, Phommasak B, Vongphrachanh P, Bouaphanh K, Rekol H, Hien NT, Duong TN, Thai PQ, Chuang JH, Liu YL, Ng LC, Shi Y, Tayag EA, Roque Jr VG, Lee Suy LL, Jarman RG, Gibbons RV, Velasco JMS, Yoon IK, Burke DS, Cummings DAT. Region-wide synchrony and traveling waves of dengue across eight countries in Southeast Asia. *Proc Natl Acad Sci U S A*. 2015 Oct 20;112(42):13069-74. [*Altmetric 353, 97% of PNAS papers, NIH Director's blog, featured by BBC World Service and 96 other international media outlets*]
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19. Dalziel BD, Bjørnstad ON, **Van Panhuis WG**, Burke DS, Metcalf JE, Grenfell BT. Persistent chaos and asynchrony of measles epidemics in the prevaccination United States. *PLoS Comput Biol*. 2016 Feb 4;12(2):e1004655.
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21. Brownwright T, Dodson Z, **Van Panhuis WG**. Spatial clustering of measles vaccination coverage among children in Sub-Saharan Africa *BMC Public Health* 2017 Dec 15;17(1):957.
22. Paternina-Caicedo AJ, Driessen J, Roberts M, **Van Panhuis WG**. Heterogeneity between states of the health and economic impact of measles immunization in the United States. *Open Forum Infect Dis*. 2018 Jun 16;5(7): ofy137.
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25. **Van Panhuis WG**, Cross A, Burke DS. Project Tycho 2.0: A repository to improve the integration and reuse of data for global population health. *JAMIA* 2018 Dec;25(12): 1608–1617.
26. Brett T, Ajelli M, Liu QH, Krauland MG, Grefenstette JJ, **Van Panhuis WG**, Vespignani A, Drake JM, Rohani P. Detecting Critical Slowing Down in High-Dimensional Epidemiological Systems. *PLoS Comput Biol*. 2020 Mar 9;16(3):e1007679. doi: 10.1371/journal.pcbi.1007679.

2. Books and Book Chapters

1. Choisy M, Sitboulang P, Vongpanhya M, Saiyavong C, Khamphaphongphanh B, Phommasack B, Quet F, Buisson Y, Zucker JD, **Van Panhuis WG**. Rescuing Public Health Data. Chapter in: *Socio-Ecological Dimensions of Infectious Diseases in Southeast Asia*, Springer 2015: 171-190. Available at: https://link.springer.com/chapter/10.1007/978-981-287-527-3_11

3. Published Proceedings

1. Matsubara Y, Sakurai Y, **Van Panhuis WG**, Faloutsos C. FUNNEL: Automatic Mining of Spatially Coevolving Epidemics. Proceedings of the 20th ACM SIGKDD international conference on Knowledge discovery and data mining. 2014 August 24–27, New York, NY, USA: 105-114.
2. Herlands W, Wilson A, Nickisch H, Flaxman S, Neill D, **Van Panhuis WG**, Xing E. Scalable Gaussian Processes for Characterizing Multidimensional Change Surfaces. *AISTATS Conference* 2016.
3. Holzscheiter A, **Van Panhuis WG**. Sharing Data and Knowledge to Improve Global Health? Non-Compliance with the Data Sharing Norm and the Institutional Landscape of Global Health. Conference Paper, 57th Annual Convention of the International Studies Association. Atlanta, 16-19 March 2016
4. Song HA, Yang F, Liu Z, **Van Panhuis WG**, Sidiropoulos N, Faloutsos C, and Zadorozhny V. GB-R: A Fast and Effective Gray-Box Reconstruction of Cascade Time-Series. *Data Mining in Biomedical Informatics and Healthcare (DMBIH) Conference* Nov 2017.

4. Invited Articles

1. Hales S, **Van Panhuis WG**. A new strategy for dengue control. *Lancet* 2005 Feb 12;365:551-2.
2. **Van Panhuis WG**. Representing reality with individual-based models: Opportunity or illusion? *SACEMA Quarterly* 2017 Nov. Available From: <http://sacemaquarterly.com/methodology/representing-reality-individual-based-models-opportunity-illusion.html>

5. Review Articles

1. Authors (same order as publication). Title of Article. *Journal Title*. Year and Date. Volume (Issue): pages.

6. Published Abstracts

1. Authors (same order as publication). Title of Article. *Journal Title*. Year and Date. Volume (Issue): pages.

7. Presentations

1. Oral presentation. **Van Panhuis WG**, Gibbons RV, Endy TP, Rothman AL, Srikiatkachorn A, Nisalak A, Burke DS, Cummings DA. Assessing the accuracy of inferring the serotype of dengue virus infections based on pre- and post-infection neutralizing antibody titers, ASTMH 58th Annual Meeting, Washington, DC, United States, 2009
2. Oral presentation. **Van Panhuis WG**, Luxemburger C, Pengsaa K, Limkittikul K, Sabchareon A, Lang J, Durbin AP, Cummings DA. Decay and Persistence of Maternal Dengue Antibodies among Infants in Bangkok, ASTMH 59th Annual Meeting, Atlanta, GA, United States, 2010
3. Oral presentation. **Van Panhuis WG**. Digitizing and sharing public health data for decision making, CODATA Annual Meeting, Taipei, Taiwan, 2012
4. Oral presentation. **Van Panhuis WG**. Open access to newly digitized US weekly Notifiable Disease Surveillance data 1888-Present, Council of State and Territorial Epidemiologists (CSTE) Annual Meeting, Nashville, TN, United States, 2014
5. Poster presentation. **Van Panhuis WG**, Grefenstette J, Jung SY, Chok NS, Cross A, Eng H, Lee BY, Zadorozhny V, Brown ST, Cummings D, Burke DS. The Impact of Childhood Vaccination Programs in the United States: Analysis of 125 Years of Weekly Disease Surveillance. Council of State and Territorial Epidemiologists (CSTE) Annual Meeting, Nashville, TN, United States, 2014
6. Oral presentation. **Van Panhuis WG**. Open access to newly digitized US weekly Notifiable Disease Surveillance data 1888-Present, Joint Statistical Meeting (JSM), Boston, MA, United States, 2014

7. Oral presentation. **Van Panhuis WG**. Data integration for global population health through dynamic models, Big Data to Knowledge All Hands Meeting, K01 session, Bethesda, MD, United States, 2015
8. Oral presentation. **Van Panhuis WG**, Choisy M, Xiong X, Chok NS, Akarasewi P, Iamsirithaworn S, Lam SK, Chong CK, Lam FC, Phommasak B, Vongphrachanh P, Bouaphanh K, Rekol H, Hien NT, Duong TN, Thai PQ, Chuang JH, Liu YL, Ng LC, Shi Y, Tayag EA, Roque Jr VG, Lee Suy LL, Jarman RG, Gibbons RV, Velasco JMS, Yoon IK, Burke DS, Cummings DAT. Region-wide synchrony and traveling waves of dengue across eight countries in Southeast Asia, Models of Infectious Disease Agent Study Annual Meeting, Reston, VA, United States, 2016
9. Oral presentation. **Van Panhuis WG**. Integrating data with epidemic simulators to improve pandemic preparedness: Chikungunya in Colombia, NIH Big Data to Knowledge Annual Meeting, Bethesda, MD, United States, 2016
10. Oral rapid fire presentation. **Van Panhuis WG**. Project Tycho 2.0: Open access infectious disease data with a global scope, improved inter-operability, and easier access. MIDAS Annual Meeting, Atlanta, GA, United States, 2017
11. Oral presentation. **Van Panhuis WG**. A national resource of school-level vaccination coverage data in the United States, Annual Meeting of the National Association of County and City Health Officials, Pittsburgh, PA, United States, 2017
12. Oral presentation. **Van Panhuis WG**, Cross A, Burke DS. Project Tycho 2.0: a new repository for the integration and reuse of global health data, Bio-ontologies track at Intelligent Systems for Molecular Biology (ISMB) Annual Meeting, Chicago, IL, United States, Jul 2018
13. Oral presentation. **Van Panhuis WG**, Cross A, Burke DS. Project Tycho 2.0: a new repository for the integration and reuse of global health data, NIH Big Data to Knowledge Session at Intelligent Systems for Molecular Biology (ISMB) Annual Meeting, Chicago, IL, United States, Jul 2018
14. Panel participation. **Van Panhuis WG**. The Role of Ontologies in Artificial Intelligence (and Machine Learning), Bio-ontologies track at Intelligent Systems for Molecular Biology (ISMB) Annual Meeting, Chicago, IL, Jul 2018
15. Oral presentation. **Van Panhuis WG**, Cross A, Burke DS. Project Tycho 2.0, Towards a FAIR Compliant Repository for Global Population Health, American Medical Informatics Association Annual Meeting, San Francisco, CA, United States, 2018
16. Oral presentation. **Van Panhuis WG**. Project Tycho 2.0, An open data repository to accelerate development and testing of dynamic models in population biology. Modeling the World's Systems Conference, Washington, DC, United States, May 2019
17. Oral presentation. **Van Panhuis WG**. Project Tycho 2.0, Implementing FAIR in Infectious Disease Epidemiology. CODATA Conference, Beijing, China, Sep 2019.

8. Non-Print Media

1. **Van Panhuis WG**, Cross A, Burke DS. Project Tycho Data Repository. 2019 University of Pittsburgh. Available at: www.tycho.pitt.edu.

9. Other Publications

1. [Report] Guha-Sapir D, **Van Panhuis WG**. Armed Conflict and Public Health, A report on knowledge and knowledge gaps. World Health Organisation Collaborating Centre for Research on the Epidemiology of Disasters, scientific report, 2002, Brussels, Belgium. Available at: <http://www.cred.be/node/287>
2. [Report] **Van Panhuis WG**, Oshitani H. Infectious diseases surveillance in the Mekong Region. World Health Organization Western Pacific Regional Office, 2002, Manila, Philippines.
3. [Report] Guha-Sapir D, **Van Panhuis WG**. Mortality in Armed Conflicts. World Health Organisation Collaborating Centre for Research on the Epidemiology of Disasters, scientific report, 2003, Brussels, Belgium
4. [Report] Guha-Sapir D, **Van Panhuis WG**. The Andaman Nicobar earthquake and tsunami 2004, Impact on diseases in Indonesia. World Health Organisation Collaborating Centre for Research on the Epidemiology of Disasters, scientific report, 2004, Brussels, Belgium. Available at: <http://www.cred.be/node/292>
5. [Data contribution to peer-reviewed article] Scully T. The age of vaccines. **Nature**. 2014 Mar 6;507(7490):S2-3.
6. [Data contribution to popular press article] Bigman D. Worries beyond Ebola: infographic shows what else is on America's deadly disease watchlist. **Forbes Magazine**. 2014 Nov 3.
7. [Data contribution to popular press article] DeBold T, Driedman D. Battling infectious diseases in the 20th century: the impact of vaccines. **Wall Street Journal**. 2015 Feb 11
8. [Data contribution to peer-reviewed article] Costa, Kahn ME. Declining Mortality Inequality within Cities during the Health Transition. **Am Econ Rev**. 2015 May;105(5):564-9.
9. [Data contribution to peer-reviewed article] Mina MJ, Metcalf CJ, de Swart RL, Osterhaus AD, Grenfell BT. Long-term measles-induced immunomodulation increases overall childhood infectious disease mortality. **Science**. 2015 May 8;348(6235):694-9.
10. [Data contribution to peer-reviewed article] Magpantay FM, Rohani P. Dynamics of Pertussis Transmission in the United States. **Am J Epidemiol**. 2015 Jun 15;181(12):921-31
11. [Data contribution to peer-reviewed article] Martinez-Bakker M, King AA, Rohani P. Unraveling the Transmission Ecology of Polio. **PLoS Biol**. 2015 Jun 19;13(6):e1002172.

12. [Data contribution to peer-reviewed article] Althouse BM, Scarpino SV. Asymptomatic transmission and the resurgence of *Bordetella pertussis*. **BMC Med**. 2015 Jun 24;13:146.
13. [Data contribution to peer-reviewed article] Bakker KM, Martinez-Bakker ME, Helm B, Stevenson TJ. Digital epidemiology reveals global childhood disease seasonality and the effects of immunization. **Proc Natl Acad Sci U S A**. 2016 Jun 14;113(24):6689-94.
14. [Data contribution to peer-reviewed article] Scarpino S, Allard A, Hébert-Dufresne L. The effect of a prudent adaptive behaviour on disease transmission. **Nature Physics** 2016;12:1042–1046.
15. [Data contribution to peer-reviewed article] Cobey S, Baskerville EB. Limits to Causal Inference with State-Space Reconstruction for Infectious Disease. **PLoS One**. 2016 Dec 28;11(12):e0169050.
16. [Data contribution to peer-reviewed article] Ghosh S, Chakraborty P, Nsoesie EO, Cohn E, Mekaru SR, Brownstein JS, Ramakrishnan N. Temporal Topic Modeling to Assess Associations between News Trends and Infectious Disease Outbreaks. **Nature Sci Rep**. 2017 Jan 19;7:40841.
17. [Data contribution to peer-reviewed article] Costa DL, Kahn ME. Death and the media: Infectious disease reporting during the health transition. **Economica**. 2017 Jul;84(335):393-416.
18. [Data contribution to peer-reviewed article] Zheng M, Zhao M, Min B, Liu Z. Synchronized and mixed outbreaks of coupled recurrent epidemics. **Nature Sci Rep**. 2017 May 25;7(1):2424
19. [Data contribution to peer-reviewed article] Verma R, Clark S, Leider J, Bishai D. Impact of State Public Health Spending on Disease Incidence in the United States from 1980 to 2009. **Health Serv Res**. 2017 Feb;52(1):176-190. doi: 10.1111/1475-6773.12480.
20. [Data contribution to peer-reviewed article] Coleman S. The association between tuberculosis and diphtheria. **Epidemiol Infect**. 2018 Jun;146(8):940-945.
21. [Data contribution to peer-reviewed article] Benkeser D, Ju C, Lendle S, van der Laan M. Online cross-validation-based ensemble learning. **Stat Med**. 2018 Jan 30;37(2):249-260.
22. [Data contribution to peer-reviewed article] Galili T, O'Callaghan A, Sidi J, Sievert C. Heatmaply: an R package for creating interactive cluster heatmaps for online publishing. **Bioinformatics**. 2018 May 1;34(9):1600-1602. doi: 10.1093/bioinformatics/btx657.
23. [Data contribution to peer-reviewed article] Tobias S, Brett, Eamon B, O'Dea , Éric Marty, Paige B. Miller, Andrew W. Park, John M. Drake, Pejman Rohani. Anticipating epidemic transitions with imperfect data. **PLoS Comput Biol**. 2018 Jun 8;14(6):e1006204.

24. [Data contribution to peer-reviewed article] King JG, Souto-Maior C, Sartori LM, Maciel-de-Freitas R, Gomes MGM. Variation in Wolbachia effects on Aedes mosquitoes as a determinant of invasiveness and vectorial capacity. **Nat Commun.** 2018 Apr 16;9(1):1483.
25. [Data contribution to peer-reviewed article] Pallivathucal LB, Noymer A. Subacute sclerosing panencephalitis mortality, United States, 1979-2016: Vaccine-induced declines in SSPE deaths. **Vaccine.** 2018 Aug 23;36(35):5222-5225.
26. [Data contribution to peer-reviewed article] Scarpino S, Petri G. On the predictability of infectious disease outbreaks. **Nature Commun.** 2019 Feb 10(1): 898.
27. [Data contribution to peer-reviewed article] Araujo M, Ribeiro P, Song, HA et al., TensorCast: forecasting and mining with coupled tensors. *Knowl Inf Syst* (2019) 59: 497. <https://doi.org/10.1007/s10115-018-1223-9>
28. [Data contribution to peer-reviewed article] Arehart CH, David MZ, Dukic V. Tracking U.S. Pertussis Incidence: Correlation of Public Health Surveillance and Google Search Data Varies by State. **Sci Rep** 9, 19801 (2019). <https://doi.org/10.1038/s41598-019-56385-z>
29. [Data contribution to peer-reviewed article] Cohen J. The calendar of epidemics. **Science** 20 Mar 2020: 367(6484): 1294-1297. doi: 10.1126/science.367.6484.1294
30. [Data contribution to peer-reviewed article] Cousien A, Ledien J, Souv K, Leang R, Huy R, Fontenille D, Ly S, Duong V, Dussart P, Piola P, Cauchemez S, Tarantola A. Predicting Dengue Outbreaks in Cambodia. **Emerg Infect Dis.** 2019 Dec;25(12):2281-2283. doi: 10.3201/eid2512.181193.
31. [Data contribution to peer-reviewed article] Phillips MT, Owers KA, Grenfell BT, Pitzer VE. Changes in historical typhoid transmission across 16 U.S. cities, 1889-1931: Quantifying the impact of investments in water and sewer infrastructures. **PLoS Negl Trop Dis.** 2020;14(3):e0008048. Published 2020 Mar 18. doi:10.1371/journal.pntd.0008048
32. [Data contribution to peer-reviewed article] Vanderslott S, Phillips MT, Pitzer VE, Kirchhelle C. Water and Filth: Reevaluating the First Era of Sanitary Typhoid Intervention (1840-1940). **Clin Infect Dis.** 2019;69(Suppl 5):S377-S384. doi:10.1093/cid/ciz610

SERVICE

1. Service to School and University

Years	Committee	Position
2012-2015	University of Pittsburgh World Historical Dataverse Advisory Board	Appointed member
2014	Infectious Disease and Microbiology, Faculty Search Committee (ad-hoc)	Appointed member
2014-2015	Public Health Dynamics Lab, Seminar Series Committee, (standing)	Appointed chair
2014-2015	Graduate School of Public Health Global Health Curriculum Working group (ad-hoc)	Appointed member
2015	Epidemiology Admissions Committee (standing)	Appointed member
2015-2017	University of Pittsburgh Data Management Working Group (ad-hoc)	Appointed member
2016-2017	Public Health Dynamics Laboratory Faculty Search Committee (ad-hoc)	Appointed member
2016 -2020	Behavioral and Community Health Sciences Faculty Search Committee (ad-hoc)	Appointed member
2017 – present	Epidemiology Faculty Search Committee (ad-hoc)	Appointed member
2019 - present	Epidemiology Preliminary Exam Committee (standing)	Appointed member

2. Service to Field of Scholarship

a. Editorial Boards, Editorships

Date	Position	Organization
2018 – 2019	Associate Editor	BMC Public Health

b. Manuscript and Other Document/Publication Review

Dates	Journal Title
2008	BMJ (1), Disasters (1)
2009	BMJ (1)
2010	BMJ (1)
2011	BMC Infectious Diseases (1), AJPH (1)

Dates	Journal Title
2012	Journal of Virology (1), PLOS NTD (2)
2013	Journal of Medical Virology (1)
2014	PLOS One (2), Royal Society Interface (1), Epidemics (1), International Journal for Environmental Research and Public Health (1), Spatial and Spatio-temporal Epidemiology (1), Lancet (1), BMJ (2), Yearbook of Medical Informatics (1), PLOS NTD (2), Clinical Medicine Research (1), Biosecurity and Bioterrorism (1)
2015	Nature Scientific Reports (1), BMC Research Notes (1), Journal of Clinical Epidemiology (1), BMJ (2), Frontiers Microbiol (1), Epidemic Infection (1), AJE (1), Environmental Health Perspectives (1), PLOS One (3), Revista Do Inst Med Trop Sao Paulo (1).
2016	BMJ (1), BMC Infectious Diseases (1), BMC Medical Education (1), Epidemiology and Infection (1), AJTMH (1), BMC Public Health (1), EID (1), Lancet ID (1), PLOS Computational Biology (1), PLOS Neglected Tropical Diseases (1), WHO Western Pacific Regional Office Journal (1).
2017	European Journal of Human Genetics (1), PLOS Computational Biology (1), PLOS One (1) Clinical Infectious Diseases (1), Science Translational Medicine (1), Vaccine (1), Journal of World Historical Information (1).
2018	Science (1), Nature Communications (1), PLOS Computational Biology (1), BMJ (1)
2019	Nature Communications (1), Science (1), Modeling the Worlds Systems 2019 Conference abstracts (2), American Medical Informatics Association 2019 Annual Meeting abstracts (1).
2020	Epidemics (1)

c. Study Sections, Review Panels, and Advisory Boards

Date	Position	Organization and Nature of Activity
2011-2013	Member	Bill & Melinda Gates Foundation Polio Data Working Group
2015	Grant reviewer	UK Medical Research Council
2017	Ad-hoc member	NIH Vector Biology Study Section
2017	Member	NIH Ad-hoc study section NIAID P01 grant application FOA PAR16-413
2017	Reviewer of Epidemiology Curriculum for Undergraduate students	Umm AL-Qura University, Saudi Arabia

Date	Position	Organization and Nature of Activity
2017 – present	Member	Scientific advisory board for Studying the history of Health in Port cities (SHiP) research network, Radboud University, The Netherlands
2017 – present	Member	World Health Organization Europe Regional Office Expert Panel on scoping review on information systems for health
2018	Grant reviewer	UK Medical Research Council MRC/DFID African Research Leaders Program
2020 - present	Member	NIH Special Emphasis Panel for Emergency SARS-CoV-2 and COVID-19 grant review, NIAID_ZA11-IS-W-S1