

Infectious Disease Across Scales Training Program

Spring 2022

IDASTP NEWSLETTER

Welcome to the Spring 2022 edition of the IDASTP Newsletter. Our program is hosting multiple events including the 2022 IDAS Seminar Series and Ecology and Evolution of Infectious Diseases 2022 International Workshop and Conference (EEID 2022), all detailed in this edition of the newsletter.



NOTE FROM IDASTP DIRECTOR

Jacobus de Roode, PhD.

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As the Covid-19 pandemic is entering its third year, so is our training program. And despite the challenges posed by the ongoing pandemic, our trainees keep growing as scientists. Freddy Lamar is currently a postdoc in the FIRST program, Ian Hennessee is about to join the Epidemic Intelligence Service at the CDC, and Elizabeth Sajewski and Kelsey Shaw are planning to defend their theses in the near future. Sandra Mendiola received a fellowship from the USDA and Mike Martin received an F31 training grant. More on our trainees and Award of Distinction members is in the next pages.

This past year, we have expanded our training program to be able to recruit students from EPI and MMG, in addition to IMP, PBEE and EHS. We also welcomed Micaela Martinez to Emory and the IDASTP Steering Committee. Our trainees and Award of Distinction members have been actively involved in seminar series, our yearly symposium and a career panel we held in spring 2021 for undergraduate students aspiring careers in infectious diseases. Currently, many of our students are helping with the organization of the Ecology and Evolution of Infectious Diseases (EEID) 2022 meeting at Emory in June of this year.

EEID has led the way in applying ecological and evolutionary principles to the study and control of infectious diseases, and much of this work involves crossing scales of biological organization. It is our hope to hold EEID 2022 as a hybrid event, with a large proportion of people attending the conference on the Emory campus. In addition to having oral presentations and poster events, the conference has traditionally included a hike for people to learn about local nature and to network. We will follow that tradition by showcasing Sweetwater Creek, Arabia Mountain and the Atlanta Beltline. The conference will also host two workshops: one for students and postdocs on pandemic scenario modeling and science communication, and one on international collaboration in EEID research. If ongoing viral evolution forces us to hold the conference online, we will be prepared. More details on this conference are in this newsletter.



2022 Trainees

IDASTP Trainees Ashley Alexander and Ian Hennessee will be joined by new trainees Rachel Pearson and Amber Coats for the 2021-2022 academic year. Over the next year, they will gain IDASTP trainee access to opportunities, training and support. Each trainee will participate in the 2022 IDAS Seminar Series and EEID 2022.



Ashley Alexander Goldberg & Read Labs Population Biology, Ecology & Evolution



lan Hennessee Clasen Lab Environmental Health Sciences



Rachel Pearson Day Lab Immunology & Molecular Pathogenesis



The IDASTP Award of Distinction was created to further support student research that fits with the infectious disease across-scales approach. Student support includes funds for research supplies, training and travel.



KM Barnett *Civitello Lab Population Biology, Ecology & Evolution*



Vincent Giacalone Tirouvanziam Lab Immunology & Molecular Pathogenesis



Carol Liu Lopman Lab Epidemiology

For more information including IDASTP programming funding support, and deadlines, visit the

IDASTP Website



Amber Coates Koelle Lab Microbiology & Molecular Genetics



Kelsey Shaw Trainee 2019-2020 Civitello Lab Population Biology, Ecology & Evolution



Elizabeth Sajewski Trainee 2019-2021 Lopman Lab Environmental Health

Sciences





Frederica Lamar Trainee 2020-2021 Levy & Freeman Labs Environmental Health Sciences

Lynda Bradley AOD 2020-2021 Civitello Lab Population Biology, Ecology & Evolution





Michael Martin AOD 2020-2021

IDASTP Alumni

AOD 2020-2021 Koelle Lab Population Biology, Ecology & Evolution

Sandra Mendiola AOD 2020-2021 Gerardo & Civitello Labs Population Biology, Ecology & Evolution

Trainee and AOD Research Projects

ASHLEY ALEXANDER

Ashlev studies interactions between the opportunistic bacterial pathogens, Staphylococcus aureus and Pseudomonas aeruginosa. She uses experimental evolution and bioinformatics to study the genetic determinants and environmental factors that facilitate their coexistence in cystic fibrosis associated respiratory infections.

AMBER COATS

Amber's research focuses on characterizing the evolutionary dynamics of seasonal human coronaviruses as a model system for anticipating patterns of long-term evolution of SARS-CoV-2. As part of this research, she plans to identify patterns of adaptive evolution in seasonal coronaviruses that involve point mutations, insertions/deletions, and recombination.

VINCENT GIACALONE

Vincent's research focuses on the mechanisms of neutrophilic inflammation in early cystic fibrosis lung disease, including dysregulated antimicrobial responses and suppression of other immune cell populations.

CAROL LIU

Carol's research integrates novel data sources to investigate the dynamics of SARS-CoV-2 transmission by disentangling the relative importance of factors influencing superspreading at the host scale and by assessing the impact of human mobility and vaccination on spatiotemporal patterns of SARS-CoV-2 at the population scale. The modeling frameworks that will be developed will not only answer timely questions related to SARS-CoV-2 but can be further applied to other pathogens of outbreak potential such as Ebola, measles and norovirus.

IAN HENNESSEE

Ian is interested in the impacts of multi-scale environmental change on vector ecology and vector-borne disease transmission. His current research focuses on how changes in household air pollution, land-use, and climate affect *Anopheles* mosquito ecology and malaria incidence in Eastern Province, Rwanda.

RACHEL PEARSON

Rachel's dissertation work aims to understand the effects of HIV infection and treatment on Mtb-specific CD4+ T cell molecular programs and function in adults with HIV/Mtb co-infection from Mombasa, Kenya. This work crosses multiple scales of biological organization by assessing CD4+ T cell functional profiles and epigenetic and transcriptional programs within hosts at a singlecell level and linking these results to HIV/Mtb infection and disease outcomes in heterogenous populations. Rachel's work will define the phenotypic, functional, transcriptional and epigenetic signatures of total and Mtb-specific CD4+ T cells and link these data with parameters of HIV disease progression (CD4 count and HIV viral load) and latent and active TB disease states.

KM BARNETT

Chytridiomycosis is a fungal disease that is threatening global amphibian biodiversity. KM's research assesses the efficacy and feasibility of a prophylactic treatment for chytridiomycosis. She uses a combination of lab experiments, agentbased modeling, and fieldwork to address her aims.

2022 IDASTP Deadlines



IDASTP Application Deadline March 15, 2022 IDASTP Award of Distinction (AOD) Deadline March 15, 2022

Visit the **IDASTP Website** for more details including how to apply.

Ecology and Evolution of Infectious Diseases 2022 International Workshop and Conference

The Ecology and Evolution of Infectious Diseases (EEID) is an international meeting that has led the way in establishing the fields of disease ecology and infectious disease across scales since its inception in 2003.

EEID 2022 will bring together scientists from around the world to discuss the latest research on pressing issues, including the role of climate change in driving infectious disease, and the importance of racial and other social disparities in causing inequity and preventing effective control of disease. The explicit focus on social justice and infectious disease will showcase the crucial integration of biomedical science, social science, public health and ecology.



<u>THEMES</u>

Pandemic Scenario Modeling Science Communication Human and Animal Mobility Socioeconomics and Land Use Social Justice and Infectious Disease Infectious Diseases Across Scales

WORKSHOP

Pandemic Scenario Modeling and Science Communication

June 3 – 6, 2022

CONFERENCE

Ecology and Evolution of Infectious Diseases

June 6 – 9, 2022

More information can be found on the EEID Website



EEID 2022

Pandemic Scenario Modeling and Science Communication Workshop June 3 – 6, 2022

The Hatchery - Center for Innovation 1578 Avenue Place, Suite 200, Atlanta, Georgia 30329

Students and early-career postdocs will participate in a 2.5 day workshop focused on acquiring skills that disease ecologists and epidemiologists will need to respond to the next global pandemic. Specifically, students will learn how to work with disease forecasting models, and model different scenarios for an outbreak of a new pandemic. They will then split into two sub-groups: one focused on the impacts of socio-economics and human land use, and another focused on using human mobility data to understand and inform outbreak response. Concurrently, all participants will learn communication skills in order to better communicate their science with policy makers and the public.

Workshop Leaders



Karen Lips

Professor, Biology University of Maryland



Calistus Ngonghala

Assistant Professor, Mathematical Biology University of Florida



Maryn McKenna

Journalist, Author and Senior Fellow of the Center for the Study of Human Health, Emory University



Sam Scarpino

Managing Director, Rockefeller Foundation



Sam Whitehead

Reporter, GPB News Senior Producer, "A Closer Look Former Host, WABE podcast "Did you wash your hands?"



Noam Ross

Principal Scientist, EcoHealth Alliance

Jacobus de Roode

Samuel C. Dobbs Professor, Biology Department Director of Infectious Disease Across Scales Training Program Co-Director, MP3 Initiative Emory University



Ecology and Evolution of Infectious Diseases Conference

June 3 – 6, 2022

Emory Student Center 605 Ashbury Circle, Atlanta, GA 30322

Pandemic Scenario Modeling

Risk assessment and end game with respect to epidemics and pandemics



Rebecca Kahn

Postdoctoral Research Fellow of Epidemiology, Harvard T.H. Chan School of Public Health

Socioeconomics and Land Use

Social, cultural, and economic characteristics of agricultural and/or land use systems



Benjamin Roche

Research Director, Research Institute for Development, Montpellier

Human and Animal Mobility Effects of host behavior and mobility on disease transmission



Gonzalo Vazquez-Prokopec

Winship Distinguished Associate Professor, Environmental Sciences, Emory University



Amira Roess

Professor, Global Health and Epidemiology, George Mason University

Infectious Diseases Across Scales

Integrating infectious disease across scales, from immune molecules and pathogens to populations, ecological communities and pandemics



Anice Lowen

Associate Professor, Microbiology & Immunology School of Medicine, Emory University



Katie Hampson

Professor,

Institute of Biodiversity Animal Health and Comparative Medicine, Associate, School of Life Sciences, University of Glasgow

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EEID 2022

(conference continued)

Science Communication

Communicating about infectious disease and vaccination with the public



Sam Whitehead

Reporter, GPB News Senior Producer, "A Closer Look Former Host, WABE podcast "Did you wash your hands?"



Natalie Dean

Assistant Professor, Biostatistics and Bioinformatics, Rollins School of Public Health, Emory University

Social Justice and Infectious Disease

Historical and Humanities analysis of Racial disparities and infectious disease; Climate change and Infectious disease



Reuben Warren

Director National Center for Bioethics in Research and Health Care, Tuskegee University



Terry McGovern

Chair, Heilbrunn Department of Population and Family Health; Harriet and Robert H. Heilbrunn Professor of Population and Family Health, Columbia University Medical Center



Cinthia Carvajal

Program Officer, Sexual and Reproductive Justice and Crisis Response, Global Fund for Women

SPECIAL TRAVEL FUNDS AVAILABLE

In addition to these keynote speakers, we will provide *travel awards to six early-career scientists (graduate students, postdocs) who would like to merge infectious disease and social justice in their research.* These scientists could include social justice scientists who do not work on infectious disease or infectious disease scientists who do not address social justice. The goal of bringing them to this meeting is for them to engage and connect with people from different fields and to find ways to synergize infectious disease research with social justice.

EEID Sponsors

EEID 2022 is made possible by the generous contributions from the following sponsors:





The Hatchery Center for Innovation

EMORY UNIVERSITY

Infectious Disease Across Scales Training Program

MP3 Initiative

Dean, College of Arts and Sciences

Department of Biostatistics and Bioinformatics

Department of Environmental Sciences

Dean, Rollins School of Public Health

Emory Global Health Institute

Department of Pathology

Dean, School of Medicine

Senior Vice President for Research

Department of Biology

Department of Epidemiology

Laney Graduate School

Department of Microbiology and Immunology

Gangarosa Department of Environmental Health

Division of Infectious Disease

EEID Organizing Committee



Ashley Alexander (PBEE student)	Michael Martin (PBE
Lynda Bradley (PBEE student)	Micaela Martinez (A
Dave Civitello (Asst. Prof. Biology)	Sandra Mendiola (Pl
Tom Gillespie (Prof. ENVS)	Jaap de Roode (Prof
lan Hennessee (EHS student)	Kelsey Shaw (PBEE s
Katia Koelle (Prof. Biology)	Kayoko Shioda (post
Freddy Lamar (postdoc, EHS)	Todd Swink (Asc. Dir
Ben Lopman (Prof. Epidemiology)	Maggie Webber (un
	Devid Verslashershe

Michael Martin (PBEE student)
Micaela Martinez (Asst. Prof. Biology)
Sandra Mendiola (PBEE student)
Jaap de Roode (Prof. Biology, Dir. IDASTP, Co-Dir. MP3)
Kelsey Shaw (PBEE student)
Kayoko Shioda (postdoc, EPI)
Todd Swink (Asc. Dir. IDASTP & MP3)
Maggie Webber (undergrad, Biology)
David VanInsberghe (postdoc, SoM)



2022 IDAS SEMINAR SERIES

Wednesdays at 12 PM Via Zoom

All seminars are open to everyone. Join the IDAS Listserv to receive Zoom links.

The third annual seminar series supported by the **IDASTP** (Infectious Disease Across Scales Training Program) and the MP3 Initiative (Molecules and Pathogens to Populations and Pandemics). This weekly series of seminars and discussions on infectious disease research and control across scales is presented by visiting Emory speakers, Emory faculty/postdocs and IDASTP students. Seminar and discussion topics are chosen to provide a broad overview of the current status of the field. Attendance of seminars will allow attendees to keep up to speed with developments in the field, and also provide a weekly opportunity to meet with peers and faculty in the IDASTP program. We encourage anyone interested in the infectious disease across scales research approach to attend.

Speaker schedule and Talk Titles can be found on the <u>IDASTP Website</u>.

To schedule a 1-1 Zoom meeting with a guest speaker, email <u>tswink@emory.edu</u>.

(limited availability)

MP3 & IDASTP Info



Todd Swink Associate Director, IDASTP & MP3 Initiative Biology Department Emory College of Arts and Sciences tswink@emory.edu

Join the IDAS Listserv to receive the latest updates on IDASTP and the MP3 Initiative.

Speaker Schedule

- 1/12/22 Lance Waller, RSPH, Emory University
- 1/19/22 Jacobus de Roode, ECAS, Emory University
- 1/26/22 Anne Piantadosi, SOM, Emory University
- 2/02/22 Cynthia Derdeyn, SOM, Emory University
- 2/09/22 Dana Hawley, Virginia Tech
- 2/16/22 Angela Bosco-Lauth, Colorado State University
- 3/2/22 Guido Silvestri, SOM, Emory University
- 3/16/22 Jyothi Rengarajan, SOM, Emory University
- 3/23/22 Tara Stewart-Merrill, University of Colorado Boulder
- 3/30/22 Andrea Graham, Princeton University
- 4/06/22 Peter Crompton, NIH-NIAID
- 4/13/22 Douglas S. Kwon, Montana State University

Q & A with IDASTP Training Faculty, Trainees and Award of Distinction Awardees



MICAELA MARTINEZ, PHD

IDASTP Training Faculty MP3 FSUP Awardee Assistant Professor, Biology, Emory College of Arts & Sciences, Emory University

How did you get into your research?

My research area comes from my love of the seasons and my interest in climate change and human evolution.

Describe your most exciting research finding.

My most interesting research finding is that all human infectious diseases are seasonal and that humans have the highest fertility around the winter solstice.

What do you see as your research trajectory?

Over the next 20-30 years my plan is that my lab will be the world leader in the study of circannual (seasonal) cycles in humans.

Describe the impact the MP3 funding has had on your research.

The MP3 funding is helping my lab build one of the few human chronobiology facilities in the world that is capable of running multi-day studies with 24-hour blood sampling. This will allow us to study human biological rhythms yearround and timed interventions such as vaccination and medical treatments.



ASHLEY ALEXANDER

IDASTP Trainee Goldberg & Read Labs Population Biology, Ecology & Evolution Emory University

What does across scales mean to you?

To me, studying infectious disease across scales means to consider all the dimensions that are involved with a disease and its impact on the host and pathogen's communities. Time is a particularly important aspect of scale to take into account when we study infectious diseases as both host and pathogen evolve to each other and their changing environments over time. I am particularly excited about learning how microbial pathogens evolve during an infection and how the presence of other microbes changes those adaptive trajectories. Studying polymicrobial chronic infections, like those that impact people who have the genetic disease cystic fibrosis, gives us an opportunity to observe how community interactions can change the course and outcome of infections.

How did you get into your research?

I became interested in studying microbial community ecology after an excellent experience as an undergraduate researcher in the Rosenzweig laboratory at Georgia Tech. During that time, I observed how experimental evolution can be a powerful tool when trying to link complex phenotypes with genotypes. When applying for graduate school I was on the hunt for a rewarding system to which I could apply this same research approach. I was lucky to find an ongoing collaborative project in the Goldberg and Read labs at Emory on the interactions between *Staphylococcus aureus* and *Pseudomonas aeruginosa* in cystic fibrosis respiratory infections. I have been having a blast both on and off the bench ever since.

Describe your most exciting research finding.

I will never forget the night that I identified a single mutation that distinguished experimentally evolved *S. aureus* populations that had improved survival when cocultured with *P. aeruginosa*. It was a genetic smoking gun that I had been hoping for and the first time I made a truly novel scientific finding.

I have been trying to figure out what said finding means ever since but three years later I am getting close to making sense of it all and sharing it with the scientific community and anyone else who will listen.

What do see as your research trajectory?

There are an infinite number of things to be learned about microbial ecology and evolution in so many exciting and important system

I hope to apply the skills and techniques I have learned in my undergraduate and graduate research experiences to both applied and basic research questions that will improve

(continued)

our understanding of how microbes evolve, infect, and cooperate with each other and their hosts. Using experimental evolution will allow me to observe in realtime how microbes respond to environmental and biological pressures and as sequencing tools become more powerful and accessible

my research opportunities and interests will only expand. I don't know exactly where in the world or within the scientific community my research questions will take me but I'm very excited to continue

contributing knew knowledge about the ecology and evolution of infectious disease.

Describe the impact the IDASTP funding has had on your research.

Having funding through the IDASTP program has allowed me to have the ability to freely pursue research questions as they arise, as well as the gift of time to meticulously investigate and solidify my research findings. Without this funding and the opportunities the program has given me, my research would be far more rigid and rushed and my professional development would be lacking as I would have had fewer opportunities to network and interact with colleagues in such diverse fields related to infectious disease.

LYNDA BRADLEY

AOD 2020-2021 Civitello Lab Population Biology, Ecology & Evolution

What does across scales mean to you?

I frequently use "scales" to mean different levels of biological organization. For example, as a disease ecologist, I think about what influences an *individual* organism to produce many parasites versus what leads *populations* of individuals to make many parasites. A particular host biological trait may really impact disease dynamics at one scale, but not at another scale. I am really excited about figuring out which biological mechanisms matter most at which scale! I also think something fun about the organizational scales framework is that it often inherently nests other kinds of scales inside it, like time and space (e.g., the spatial scale of an individual may be different than that of populations).

How did you get into your research?

Before I came to Emory, I was trained in biophysics research, and studied protein enzymatic function across scales—super cool, but I wanted to do work that had a stronger applied connection to public health. This set the stage for me to seek out doctoral training to become a disease ecologist, studying the feedbacks between the environment and zoonotic disease transmission. I wanted to learn how to develop theory, test those ideas in experiments, and eventually build models to predict disease outcomes using both theory and data. My dissertation using the Civitello lab's snail-schistosome system gives me a great way to do all of those things!

How has the program shaped your research?

The program has shaped the way I view my own work and given me scaffolding to think about other research as well. Thinking "across scales" helps me recognize and begin to tackle the immense complexity of disease dynamics from an ecological perspective. It gives me space to deliberately acknowledge that biological phenomena occur across a wide range of dimensions, but still prioritizes and constrains what I can realistically account for in my work. Basically, the huge intellectual playing field inspires wonder, yet helps me pin down what I am (and am not) able to study.

Describe your most exciting research finding.

Eating food really influences your capacity to produce parasites—especially when you eat and what you eat (at least, in my work, if you are a snail). It sounds simple enough, but quantitatively connecting food ingestion to host-parasite dynamics is less intuitive than you would assume. My most exciting model prediction is that it matters when you give snails a burst of food during a

parasite transmission season, instead of seeing the same outcome so long as you give them the same total amount of food. Now I'm testing this model result in experiments!

What do see as your research trajectory?

It is a never-ending challenge to connect ecological theory to actual data! Whether in my postdoc or beyond, I want to keep chipping away at this challenge to better understand how the complex feedbacks between the environment, humans, and non-human animals influence disease transmission. It's definitely fun, and I also believe understanding how these feedbacks intersect is important

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Researcher Spotlight

(continued)

to adequately predict how management/intervention strategies will reduce disease burden.

Describe the impact the IDASTP funding has had on your research.

As I mentioned before, the program has really created a framework for how I view my own work, and how I think about research in general. I started becoming involved with IDASTP before my qualifying exams, and it has helped

shape and re-shape my proposal over time. Second, I obviously have been able to benefit from the research funding, allowing me to test out an experimental method for extra data that I was interested in for my dissertation. IDASTP has also provided a space to meet other researchers here and across the globe, which is very rewarding.



Ian Hennessee IDASTP Trainee Clasen Lab Environmental Health Sciences

What does across scales mean to you?

I do a lot of spatial analysis and mapping in my work, so the first thing I think of is infectious disease patterns and processes that occur across multiple spatial scales. But the IDASTP has broadened my conception of scale to include temporal scales, organizational scale, and scales of ecological complexity from disease dynamics within organisms to transmission dynamics across the globe and across species.

How did you get into your research?

When I first started my PhD, my advisor asked me to develop a research study on the effects of a household air pollution intervention on vector behavior and malaria transmission risk in Rwanda. I originally planned on working on it for a short research rotation, and had no idea it would wind up being a big part of my dissertation! I've loved the research and have developed numerous studies on how environmental change at various scales (from the household environment to land-use change and long-term climate change) influence mosquito ecology and malaria incidence in Rwanda.

How has the program shaped your research?

IDASTP has pushed me to think more holistically about incorporating scale into the design and implementation of my research. In my third aim, for example, I am examining

how land-use change, climate, and vector control interventions influenced resurgent malaria transmission in Rwanda over the last decade. Each of these changes occurred at different spatial scales (household, community, regional) and temporal scales (e.g. seasonal, yearly, etc.). I account for these complexities through multi-scale analyses and through spatially and temporally explicit geostatistical models.

Describe your most exciting research finding.

Some of our studies in Rwanda have documented for the first time the effects of changes in cooking fuels on *Anopheles* mosquito behavior and host-seeking. However, I hope my most exciting research findings are yet to come, so stay tuned!

What do see as your research trajectory?

I was recently accepted to CDC's Epidemic Intelligence Service (EIS). I will be defending my dissertation in March and then will start as an EIS Officer in July 2022. I am not sure yet which branch I'll be working with. However, I plan to continue research and applied epi focused on the environmental determinants of infectious disease.

Describe the impact the IDASTP funding has had on your research.

My research interests don't fall completely within an existing grant of my advisors. IDAS funding has therefore been invaluable in enabling me to pursue my own research topics. I also worked for ~8 months in 2020 with the Georgia Department of Public Health on spatial epidemiology for the COVID-19 response. IDASTP was very supportive of that work. Finally, I was able to use the funds to buy a computer, which is wonderful for the data-intensive analyses I do. I am so grateful for IDASTP funding and for the influence it has had on my research.

Visit the <u>IDASTP Website</u> for more information on infectious disease across scales research.

IDASTP STEERING COMMITTEE



Jacobus de Roode, PhD Director, IDASTP Co-Director, MP3 Initiative Professor, Biology Department Emory College of Arts and Sciences



Thomas Clasen, PhD Professor and Chair, Environmental Health Jointly Appointed, Epidemiology Jointly Appointed, Global Health



Cheryl Day, PhD Associate Professor, Department of Microbiology and Immunology Emory Vaccine Center Emory School of Medicine



Thomas Gillespie, PhD Professor, Department of Environmental Sciences Emory College of Arts and Sciences

Ian Hennessee **IDASTP** Trainee **Environmental Health Sciences** Clasen Lab

Micalea Martinez Assistant Professor, Biology Department Emory College of Arts and Sciences



Rachel Pearson IDASTP Trainee Immunology & Molecular Pathogenesis Day Lab



David S. Stephens, MD Vice President for Research, Woodruff Health Sciences Center Chair, Department of Medicine **Emory School of Medicine**



Lance Waller, PhD

IDASTP LEADERSHIP

IDASTP is led by the IDASTP Steering Committee representing ECAS, RSPH and SOM. Training Faculty are recruited from various departments on campus to ensure IDASTP includes a broad spectrum of infectious disease research training faculty.

IDASTP TRAINING FACULTY

Provide a	Descentario
Faculty	Department
Cervantes-Barragan, Luisa	Microbiology and Immunology
Civitello, Dave	Biology
Clasen, Thomas F.	Environmental Health
Day, Cheryl L.	Microbiology and Immunology
de Roode, Jacobus C.	Biology
del Rio, Carlos	Global Health
Derdeyn, Cynthia A.	Pathology and Laboratory Medicine
Freeman, Matthew	Environmental Health, Epidemiology and Global Health
Galinski, Mary R.	Medicine (Infectious Diseases)
Gerardo, Nicole M.	Biology
Gillespie, Thomas R.	Environmental Sciences
Goldberg, Joanna B.	Pediatrics (Pulmonology,
	Allergy/Immunology, Cystic Fibrosis and Sleep/Apnea)
Hunter, Eric	Pathology and Laboratory Medicine
Kitron, Uriel D.	Environmental Sciences
Koelle, Katia	Biology
Leon, Juan S.	Global Health
Lopman, Benjamin A.	Epidemiology
Lowen, Anice C.	Microbiology and Immunology
Moe, Christine L.	Global Health
Martinez, Micaela	Biology
Read, Timothy D.	Medicine (Infectious Diseases)
Rengarajan, Jyothi	Medicine (Infectious Diseases)
Silvestri, Guido	Pathology and Laboratory Medicine
Stephens, David S.	Medicine
Sullivan, Patrick S.	Epidemiology
Udhayakumar, Venkatachalam	CDC (Division of Parasitic Diseases)
Vazquez-Prokopec, Gonzalo M.	Environmental Sciences
Vega, Nic M.	Biology
Waller, Lance A.	Biostatistics and Bioinformatics



We would like to thank Nicole Gerardo for her time on the IDASTP Steering Committee. Nicole helped shape IDASTP in its initial development and as Steering Committee member. We wish her the best in her new role as Director of GDBBS.



Todd Swink Associate Director, IDASTP & MP3 Initiative **Biology Department** Emory College of Arts and Sciences tswink@emory.edu

IDASTP Info

Professor, Department of Biostatistics and Bioinformatics Rollins School of Public Health

The IDASTP is sponsored by the the NIAID and multiple Emory entities. We would like to take time to recognize our sponsors.



National Institute of Allergy and Infectious Diseases



Laney Graduate School

Deborah W. Bruner, Senior Vice President for Research

Emory Health Science Center

Emory Department of Biology

Deadlines & Registration

EEID 2022

Provost Office

Vikas Sukhatme,

Michael Elliot,

Dean of Emory School of Medicine

Dean of Emory College of Arts and Sciences

EEID 2022 Workshop June 3 – 6, 2022 Application Deadline: March 15, 2022

EEID Poster & Abstract Submission Deadline March 15, 2022

EEID Poster & Abstract Submission Deadline March 15, 2022

EEID 2022 Conference June 6 – 9, 2022 Registration Opens: April 15, 2022

Visit the EEID Website for more information

IDASTP 2022

2022 IDAS Seminar Series Wednesdays, 12 PM – 1 PM <u>Register Here</u>

IDASTP Application Deadline March 15, 2022

Application Details

IDASTP AOD Deadline March 15, 2022

