



SPRING 2024

IDASTP

INFECTIOUS DISEASES ACROSS SCALES  
TRAINING PROGRAM

YEAR 5



EMORY UNIVERSITY



Program  
Page 3-4



Students  
Page 2-4



Seminars  
Page 8-9



Spotlight  
Page 11-13



Important Dates  
Page 15



Sponsors  
Page 16



[Join IDAS  
Listserv](#)



CONTENTS

Note from the Director ..... 2  
 Program ..... 3-4  
 Students ..... 5-7  
 2024 IDAS Seminar Series ..... 8  
 New Projects ..... 9  
 Retreat ..... 10  
 Researcher Spotlight ..... 11-13  
 IDASTP Leadership ..... 14  
 Important Dates ..... 15  
 Sponsors ..... 16



Jacobus de Roode, PhD  
 IDASTP DIRECTOR

It is hard to believe that we have reached the fifth year of our program. As such, we have developed a proposal to renew this T32-funded program. The grant has been submitted to NIAID, and we will hear about our funding decision in the spring of 2024. If all goes well, we will be able to expand our program to support six (instead of four) trainees per year, and to support four affiliates through awards of distinction. Thanks to everyone for providing CV's, biosketches and data that helped in completing the renewal grant. Also, many thanks to all the Emory units that have pledged support to help us expand our program (sponsors are listed on page 16).

The last year has been very exciting for our program, with our first Annual Retreat, where we brainstormed about program improvements: ideas for our new Career Development Seminar in the Fall, and our new Virulent Vortex Podcast were hatched during this retreat. We look forward to hold a retreat every year going forward. Join us for the next one on April 2024! Details on these new program components can be found in this newsletter.

As our program has matured, more and more of our trainees and affiliates have graduated. In recent weeks, former trainees Kelsey Shaw and Ashley Alexander, and former affiliates KM Barnett and Sandra Mendiola have successfully defended their theses. Congratulations to all!



**IDAS**  
Community

**NEWS ACROSS SCALES**  
MP3 INITIATIVE & IDASTP

SPRING IDAS  
SEMINAR SERIES



INFECTIOUS DISEASES ACROSS SCALES  
TRAINING PROGRAM



Virulent Vortex Podcast

FALL IDAS  
CAREER DEVELOPMENT  
SEMINAR SERIES



THE MP3 INITIATIVE  
*From Molecules and Pathogens to  
Populations and Pandemics*

IDASTP RETREAT



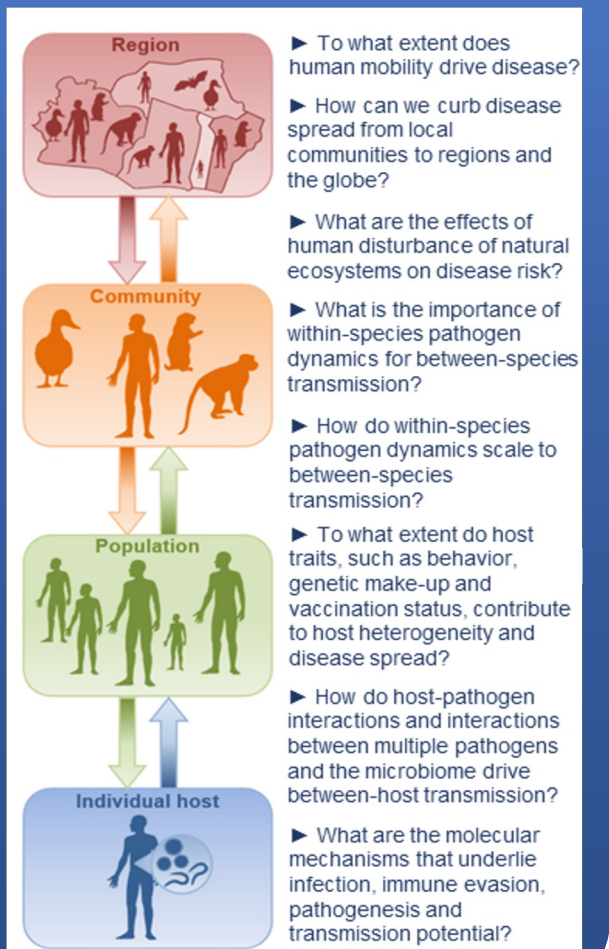
IDASTP (Infectious Diseases Across Scales Training Program) is a NIH T32 grant funded by the NIAID (National Institute of Allergy and Infectious Diseases) in 2019.

The objective of the IDASTP is to train competitive scientists who use interdisciplinary cross-scale approaches to better study and control infectious disease. This training program supports pre-doctoral students in infectious disease across scale research approach.

ACROSS SCALES RESEARCH

RESEARCH TRACKS

Typical Topics and questions addressed in this cross-scales perspective include:



[APPLICATION REQUIREMENTS](#)

[PROGRAMING & SUPPORT](#)

**Trainee Track**

- 4 students per year (2 3rd years and 2 4th years)
- Trainees are supported for 2 years (3rd and 4th year)
- Trainees from IMP, MMG, PBEE, EPI, EHS and BIOS
- Two-year support includes:
  - Stipend support
  - \$1,000 per year for travel to conferences, workshops or fieldwork
  - \$1,000 per year for research-related costs
  - First access to 1-1 meetings with guest speakers from various IDASTP events

**Affiliate Track**

(Award of Distinction; AOD)

The IDASTP Award of Distinction was created to further support student research from students who have not been admitted to the IDASTP program and whose research clearly fits with in the infectious disease across scales approach. Students support includes funds for research supplies and travel

- 3-4 students per year
- One year support includes:
  - \$2,000 for 1 year for travel conferences, workshop, fieldwork and research related expenses
  - First access to 1-1 meetings with guest speakers from various IDASTP events

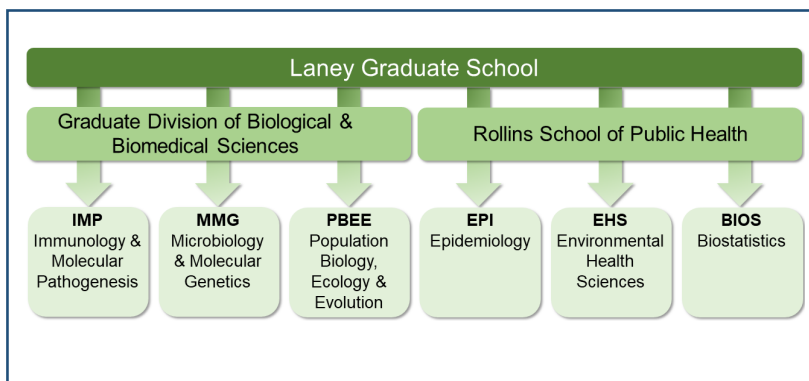
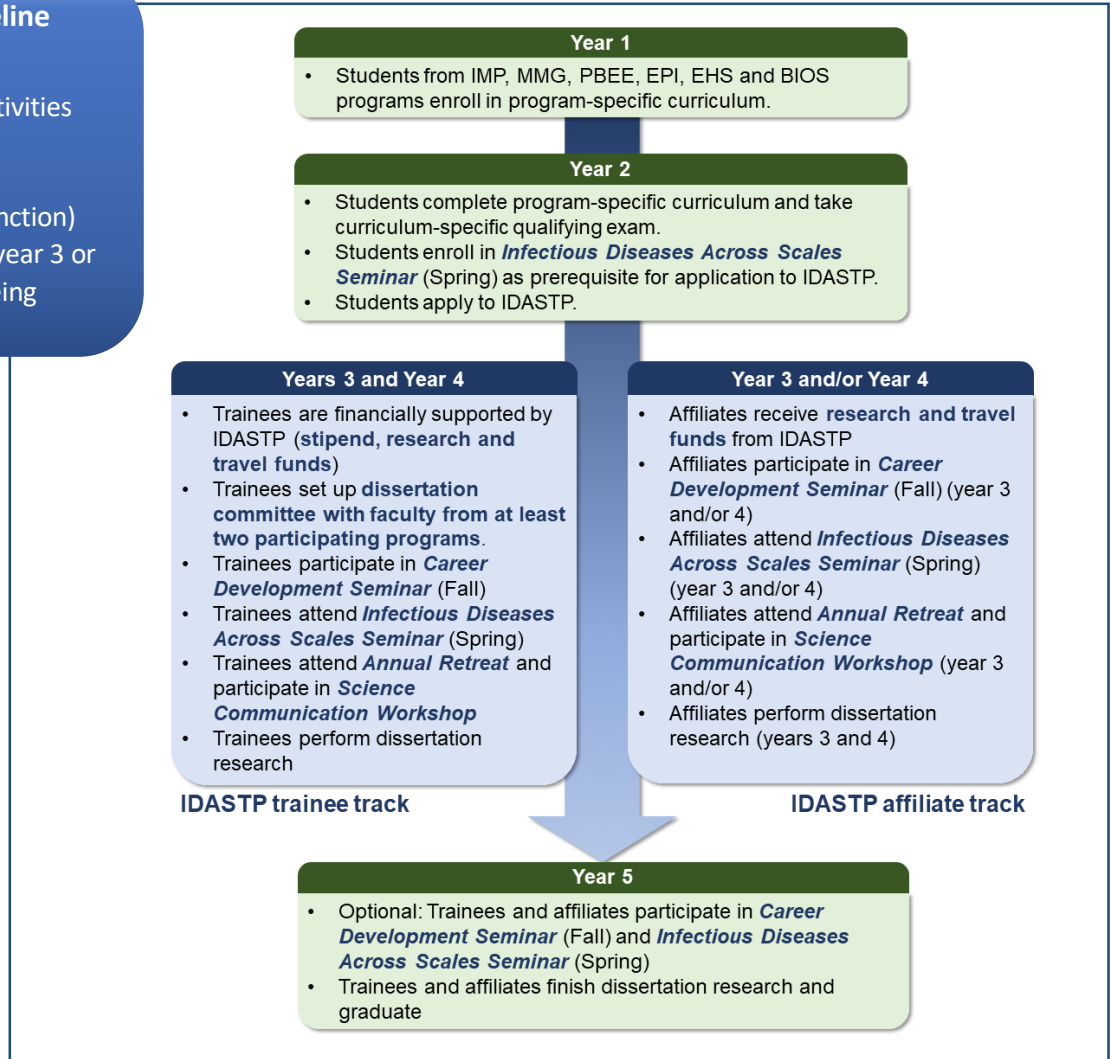
2023 TRAINEE & AOD DEADLINE  
APRIL 3, 2024

[APPLICATION PORTAL](#)



### IDASTP Trainee Timeline

- Trainees are required to participate in training activities during both year 3 and 4
- Affiliates (Award of Distinction) are required to do so in year 3 or 4, with the other year being optional.



### Organizational structure of graduate programs

The Laney Graduate School administers all graduate programs at Emory University, including the IMP, MMG, PBEE, EPI, EHS and BIOS programs. The IMP, MMG and PBEE programs are further organized into the Graduate Division of Biological and Biomedical Sciences, together with another five graduate programs.





**STEPHANIE BELLMAN**

My doctoral research seeks to understand the ecology and epidemiology of an emerging vector-borne disease, Heartland virus (HRTV), in a cross-scales framework. Specifically, in aim 1, I will predict the suitability for lone star ticks and the potential for HRTV exposure across GA using data collected at 40 state parks and WMAs throughout Georgia. Aim 2 will quantify the spatial phylogenetic relationships of HRTV isolated across GA. The final aim will rely on opportunistic testing of banked human blood to quantify HRTV seroprevalence in Georgia. These aims will create a multi-scale picture of HRTV circulation and risk in Georgia.

**STEPHEN MUGEL**

At a broad scale, I explore how disparities in clustered deprivations of household environmental features including lack of clean water, safe sanitation, hygiene, inaccessibility of bednets, and burning of biomass cook fuels in sub-Saharan Africa are associated with child health outcomes including mortality and the three most prevalent infectious diseases of acute respiratory infections, diarrhea, and malaria. In a more geographically focused analysis in an underserved region of Ifanadiana, Madagascar, I am using serological data and remote sensing to explore environmental determinants of malaria and schistosomiasis coinfection spatial epidemiology. To date I have nearly completed the broad scale analyses and have been working with partner organizations in Madagascar to utilize previously collected (though unanalyzed) sero-survey datasets.

**MARIA GARCIA QUESADA**

My research is on infectious disease epidemiology with a focus on vaccine-preventable diseases. Specifically, I am interested in how we can leverage different data sources and mathematical modeling to improve our understanding of the epidemiology of infectious diseases, inform formulations and trials of future vaccines, and maximize the impact of existing vaccines.

**2022 Trainees**

IDASTP welcomes Maria Garcia Quesada and David Jimenez-Vallejo as trainees for the 2023-2024 academic year. Together with Steph Bellman and Stephen Mugel, they will have access to opportunities, training, and support to further their contributions in the field of infectious diseases.



**Steph Bellman**  
Admitted 2022  
Prokopec & Piantadosi Lab  
Environmental Health Sciences



**Stephen Mugel**  
Admitted 2022  
Clasen & Gillespie Lab  
Environmental Health Sciences



**Maria Garcia Quesada**  
Admitted 2023  
Lopman Lab  
Epidemiology



**David Jimenez-Vallejo**  
Admitted 2023  
Prokopec Lab  
Population Biology,  
Ecology & Evolution

**DAVID JIMENEZ-VALLEJO**

My work focuses on better understanding the behavioral ecology and evolutionary biology of *Aedes aegypti*'s understudied resting behavior. Specifically, I am interested in how we can characterize the genetic, ecological, and environmental factors driving resting height preferences to understand how this behavior is manifested at a population level, inform deployment of vector control tools targeting resting mosquitoes, and assess the emergence of behavioral resistance across populations in the field.



## IDASTP Award of Distinction (AOD)

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.



**Nicole Hood**  
Awarded 2023-2024  
Rogawski McQuade Lab  
Epidemiology



**Natalie Olson**  
Awarded 2023-2024  
Nadimpalli and Waller Labs  
Environmental Health Sciences



**Meher Sethi**  
Awarded 2023-2024  
Lowen Lab  
Microbiology and Molecular  
Genetics



**Tammy Spikes**  
Awarded 2023-2024  
Wolf Lab  
Environmental Health Sciences

### NICOLE HOOD

In the US, influenza epidemics occur yearly, resulting in significant morbidity and mortality. Thus, influenza is an infectious disease of consequence each year. Initial exposures to influenza infection are known to create a lasting imprint that has been shown to have long-term effects on future immune responses to influenza virus. My research focuses on understanding how initial exposures to influenza virus impact future susceptibility to influenza disease. I plan to investigate how incorporating imprinting to specific influenza virus subtypes in mechanistic models improves our predictions of influenza morbidity during future influenza seasons.

### NATALIE OLSON

My research explores zoonotic spillover at the human-livestock-wildlife interface. I am investigating industrial extractive activities (logging and mining) as drivers of habitat degradation and spillover between wildlife and human populations in the Congo Basin. I am also investigating within- and between-host metagenomic microbiome and resistome diversity among human and chicken populations in Mozambique.

### MEHER SETHI

My project focuses on studying the evolutionary implications of collective dissemination for segmented viruses. My research will evaluate how collective dispersal impacts the efficiency of natural selection, an important mechanism driving evolutionary change. We expect that collective dissemination between cells determines the nature of virus-virus interactions within cells, in turn shaping viral evolution. I will focus on understanding the implications of virion aggregation on reassortment and phenotypic hiding to determine how virus-virus interactions can shape evolution at the viral population level and impact viral transmission and disease.

### TAMMY SPIKES

My research seeks to examine the estimates of disease burden to determine if higher rates of disease burden are experienced amongst South Atlanta communities and examine under-estimates of disease (via wastewater surveillance) on the local and city scale, characterize South Atlanta resident's exposure to community-level flooding and combined sewer overflow events on microbial exposures through measurements of the external and built environment (household water quality and flood water quality), and determine effective strategies to collaborate with the South Atlanta community in efforts to address their concerns and define best practices for creating data report-back tools to improve equity in environmental health.



IDASTP takes pride in our students and their contributions to the program. Building a program over the span of four years is no small feat, and it's clear that the students have played a crucial role in its development.

Congratulations to our students on their achievements, and here's to continued success and progress in the field of infectious disease research and training!

## TRAINEES



### Ashley Alexander

*Trainee 2021-2022*  
Goldberg & Read Labs  
Population Biology, Ecology & Evolution  
Now postdoc at Georgia State University



### Amber Coats

*Trainee 2021-2023*  
Koelle Lab  
Microbiology & Molecular Genetics



### Ian Hennessee

*Trainee 2021-2022*  
Clasen & Kitron Lab  
Environmental Health Sciences  
Now EIS fellow at the CDC



### Frederica Lamar

*Trainee 2020-2021*  
Levy & Freeman Labs  
Environmental Health Sciences  
Now EIS fellow at the CDC



### Rachel Pearson

*Trainee 2021-2023*  
Day Lab  
Immunology & Molecular Pathogenesis



### Elizabeth Sajewski

*Trainee 2019-2021*  
Lopman Lab  
Environmental Health Sciences  
Now EIS fellow at the CDC



### Kelsey Shaw

*Trainee 2019-2020*  
Civitello Lab  
Population Biology, Ecology & Evolution  
Now postdoc at the University of Notre Dame

## AWARD OF DISTINCTION



### KM Barnett

*AOD 2021-2022*  
Civitello Lab  
Population Biology, Ecology & Evolution



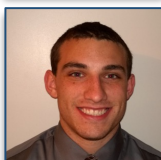
### LM Bradley

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



### Aniruddha Deshpande

*AOD 2022-2023*  
Lopman Lab  
Epidemiology



### Vincent Giacalone

*AOD 2021-2022*  
Tirouvanziam Lab  
Immunology & Molecular Pathogenesis  
Now Scientist at Larkspur Biosciences



### Carol Liu

*AOD 2021-2022*  
Lopman Lab  
Epidemiology



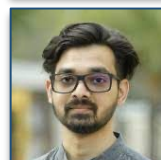
### Michael Martin

*AOD 2020-2021*  
Koelle Lab  
Population Biology, Ecology & Evolution  
Now postdoc at John Hopkins University



### Sandra Mendiola

*AOD 2020-2021*  
Gerardo & Civitello Labs  
Population Biology, Ecology & Evolution  
Now postdoc at the University of Georgia



### Vishnu Raghuram

*AOD 2022-2023*  
Read and Goldberg Lab  
Microbiology & Molecular Genetics



### Courtney Victor

*AOD 2022-2023*  
Freeman Lab  
Environmental Health Sciences

**Speaker Schedule**

1/16/24	Lance Waller, RSPH, Emory University
1/23/24	Jacobus de Roode, ECAS, Emory University
1/30/24	Nita Bharti, Pennsylvania State University
2/06/24	Paul Cross, U.S. Geological Survey
2/13/24	Lewis Bartlett, University of Georgia
2/20/24	Steve Luby, Stanford University
2/27/24	Michelle Wille, University of Melbourne
3/5/24	Elizabeth Rogawski McQuade, Emory University
3/26/24	Rabin Tirouvanziam, Emory University
4/02/24	Kayoko Shioda, Boston University
4/09/24	Chris LaRock, Emory University
4/16/24	Sam Telford, Tufts University

**Tuesdays at 3 PM**

In-Person: O. Wayne Rollins Research Building  
Room 1052

Virtual: Join the IDAS Listserv to  
receive Zoom Link

The fifth annual seminar series supported by the IDASTP (Infectious Diseases 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.

All seminars are open to everyone. Speaker schedule and Talk Titles can be found on the IDASTP Website.

[2024 IDAS Seminar Series Homepage](#)

To schedule a 1-1 Zoom meeting with a guest speaker, email [tswink@emory.edu](mailto:tswink@emory.edu).

**JOIN THE IDAS COMMUNITY**

Join Emory University's diverse community of researchers focused on infectious disease across scales research approach.

[Join IDAS Listserv](#)





IDASTP in collaboration with The MP3 Initiative introduced two new events in the Fall of 2023.

IDASTP

## FALL IDAS CAREER DEVELOPMENT SERIES

Tuesdays at 3 PM

The success of our annual Spring IDAS Seminar Series lead to the development of the new Fall IDAS Career Development Seminar Series. In the inaugural year, IDASTP students, alums, faculty and a guest speaker kicked of the discussions on career development in the infectious disease across scales field. Discussion included the evolution of writing a paper, student research projects, Lance Waller Zombie Talk and special guest Marc Lipsitch presentation.

## S P E A K E R L I S T

Jacobus de Roode  
Steph Bellman  
Amber Coats  
Ashley Alexander

LM Bradley  
Dave Civitello  
Maya Nadimpalli  
Stephen Mugel

Kelsey Shaw  
Ian Hennessee  
Frederica Lamar  
Elizabeth Sajewski

Lance Waller  
Rachel Pearson  
Aniruddha Deshpande  
Sandra Mendiola

Special Guest: Marc Lipsitch – Harvard University

The Virulent Vortex is a podcast hosted by Jaap de Roode in which IDAS Community members discuss infectious diseases across scales from molecules and pathogens to populations and pandemics, and everything in between.

Featuring MP3 Awardees, IDASTP students and faculty.

The recorded sessions will be released through the IDAS Listserv starting in November of 2023. The recordings will also be featured on our [website](#) and [YouTube Channel](#).



Virulent Vortex Podcast

Series Premier

November 2023



IDAS  
Community

JOIN IDAS LISTSERV



# IDASTP RETREAT 2024

April 19 – 20, 2024

## KENNEDY CREEK



KENNEDY CREEK RESORT

IDASTP faculty and students along with MP3 Initiative Awardees will meet for the annual IDASTP Retreat April 19-20, 2024.

Discussions will feature presentations from IDASTP and MP3 faculty and student awardees.

A variety of outdoor activities will be available for participants including hiking and camping.

Email [tswink@emory.edu](mailto:tswink@emory.edu) to join the IDASTP Retreat!

### SCENES FROM 2023 RETREAT





Q & A with IDASTP Training Faculty Students



**Elizabeth Rogawski McQuade, PhD**

*IDASTP Training Faculty*

MP3 FSUP Awardee  
Assistant Professor,  
Epidemiology,  
Rollins School of Public Health  
Emory University

**What does across scales mean to you?**

As an epidemiologist, I am primarily focused on population-level infectious disease outcomes. My specific area of interest is diarrheal disease among children in low-resource settings. “Across scales” for me means incorporating within host and pathogen biology into our understanding of the distribution, causes, and outcomes of diarrheal disease. These factors are also key for optimizing interventions for diarrhea.

**How did you get into your research?**

I started out studying diarrheal disease as a doctoral student. I was living in India and started a collaboration with a renowned researcher and clinician at the Christian Medical College, Vellore by sending her an email that simply asked if she would be interested in working together. Amazingly, she invited me to meet with her. This collaboration became the basis of my dissertation which led to my post-doctoral work in diarrheal disease and my continuing work as faculty.

**How has the program shaped your research?**

The MP3 program provided me with start-up funds which I have used to conduct a pilot study that aims to determine the best ways to target antibiotic treatment to Shigella diarrhea among children in rural Tanzania. Antibiotics are widely used indiscriminately for diarrhea (including for viral diarrheas) which can lead to antibiotic resistance, and at the same time, Shigella diarrhea episodes which could actually benefit from treatment are often treated with the wrong antibiotic. Because we

don’t have point-of-care diagnostics that could distinguish which diarrhea episodes should be treated with which antibiotics, I am studying novel ways to appropriately target antibiotic treatment using within host biomarkers and population-level dynamics like seasonality. The IDASTP program has provided funding to one of my doctoral students who is optimizing methods to identify diarrhea etiology and estimate incidence of specific causes of diarrhea using pathogen quantities detected by molecular diagnostics.

**Describe your most exciting research finding.**

It is very difficult to choose just one research finding! I would say that broadly, my research on the epidemiology of specific enteric pathogens has uncovered the outsized burden and impact of Shigella specifically on acute diarrhea outcomes, inflammation, and long-term growth in young children. I have also documented the inadequacy of currently available water, sanitation, and hygiene interventions and treatment interventions, highlighting the clear need for effective and targeted interventions to prevent both the short- and long-term impacts of Shigella. This work is exciting because it has driven major global health funders like the WHO and the Bill & Melinda Gates Foundation to prioritize the development and implementation of Shigella vaccines.

**What do you see as your research trajectory?**

My research on the distribution, determinants, and outcomes of specific causes of diarrhea has led me to now focus on identifying effective interventions for diarrheal disease broadly and for individual causes of diarrhea. Specifically, I am interested in optimizing antibiotic treatment interventions for Shigella and other bacterial diarrheas, contributing to the development of effective vaccines for Shigella and other diarrheagenic pathogens, and informing the implementation of water, sanitation, and hygiene interventions.



2020  
Faculty Startup Package  
Supplement Awardee

Elizabeth Rogawski McQuade  
Episode Premiere  
March 2023





## Steph Bellman

*IDASTP Trainee*

Prokopec & Piantadosi Lab  
Environmental Health Sciences  
MD/PhD Candidate  
Emory University

### What does across scales mean to you?

To me, across scales means to look at research questions from multiple angles and multiple disciplines. The central theme of this program, crossing scales, highlights the need to take a step outside of your own research and consider different populations, temporal and spatial dynamics, and other perspectives to get a better understanding of your research as a whole.

### How did you get into your research?

The concept of crossing scales has always been appealing to me. I'm an MD/PhD student and part of the reason I originally decided to take this degree path was that I wanted to treat diseases from multiple angles both on the clinical and research side. When I started at Emory, I was introduced to the field of public health and began to develop a passion for epidemiology and tackling problems at the public health scale as well. These interests along with a long-standing desire to understand environmental determinants of infectious disease led me to pursue my PhD in the Environmental Health Sciences Program in Rollins School of Public Health. I knew I wanted to complete a PhD that would help me gain skills in a variety of areas (fieldwork, genomics, spatial analysis, etc.) and through meetings with my advisors, Dr. Gonzalo Vazquez-Prokopec and Dr. Anne Piantadosi, I was able to craft a project examining Heartland virus, an emerging tick-borne virus, across multiple scales.

### How has the program shaped your research?

Hearing about this program and attending the spring seminar

The IDASTP funding has enabled me to pursue a project not directly tied to a grant, allowing me to ask cross-scales questions without worry of my approaches being too different to be traditionally funded. It has additionally provided me with the resources to attend large conferences to present my work and network with others in my field and attend workshops to hone and learn new skills related to my work.

*Steph Bellman*

series while I was conceptualizing my dissertation was very influential in the development of my project. The speakers and conversations helped me re-frame how each piece of the puzzle of the ecology and epidemiology of Heartland virus in Georgia may interplay with one another and encouraged me to consider different perspectives and scales. These experiences helped me build the framework of my dissertation which I like to call "The Ticks, the Virus, and the People" where I examine Heartland virus dynamics using tick populations across the state, virus circulation in these ticks, and human seroprevalence in Georgia.

### Describe your most exciting research finding.

Heartland virus was first discovered in 2009 in Missouri and since then >60 human cases have been reported to the CDC. It has been found in lone star tick populations throughout the Midwest and East Coast including in Georgia where it was discovered by a post doc in our group in 2019. In all these studies, there have been low percentages of infected ticks, and it could be compared to looking for a needle in a haystack with the number of ticks needed to test to detect one infected tick. Because of this, the most exciting finding for me has been detecting multiple infected tick pools each year for the past 3 years at one site in central Georgia. These findings allow us to look at Heartland virus evolution in tick populations over time for the first time ever! It has also enabled us to more than double the publicly available whole genome sequences for Heartland virus which lets us and others better study the phylogenetics and phylodynamics of this virus.

### What do you see as your research trajectory?

I am very passionate about my research so moving forward I would love to continue working to understand emerging pathogens, especially tick-borne ones, across scales. After my degrees, my initial goal is to gain practical experience in emerging infectious disease public health response through the CDC's EIS fellowship which I will be applying to in the summer. Long-term I want to continue working in the emerging pathogen sphere, characterizing and understanding new threats to human and animal health using my cross scales training.

Steph Bellman  
Episode Premiere  
February 2023





## Stephen G Mugel

IDASTP Trainee

Clasen & Gillespie Labs  
Environmental Health Sciences  
PhD Candidate  
Emory University

### What does across scales mean to you?

To me, a key component to thinking across scales is in trying to understand how heterogeneities of a system can scale up to drive patterns at higher levels, and how higher-level patterns can also mask certain underlying heterogeneities, often with important consequences for interpreting observation. In my work with nationally representative survey data, there are many sub-national heterogeneities that give a clearer picture of health disparities and suggest different avenues for addressing health challenges than national metrics. I also work with remote sensing data to characterize environmental features that may influence spatially structured coinfection outcome data, wherein considerations of the appropriate spatial scale for defining exposure and actionable intervention are critical.

### How did you get into your research?

My current research explores environmental determinants of infectious disease at two broad scales: first exploring global patterns in the distribution of environmental exposures using pooled national datasets, and second exploring coinfection patterns within a spatially heterogeneous landscape in a single population. I got involved in my current work stemming from ideas and collaborations generated during my lab rotations with my current co-advisors, Dr. Thomas Clasen and Dr. Thomas Gillespie, respectively.

### How has the program shaped your research?

The program has been an absolute inspiration and has helped me not only expand my skills but also the way that I consider my work and my findings. It has helped me identify so many interesting new avenues to take this work in my future career. Most importantly, by engaging with multidisciplinary scientists at all levels, I have thought more critically about how my research fits into a broader scope of science and public health.

### Describe your most exciting research finding.

We know that disparities in household environmental interventions such as safe water, sanitation, hygiene, bednet access, and clean cooking fuels are common. What we have found demonstrates that not only are there disparities within each dimension of these environmental conditions, but that in many countries in sub-Saharan Africa, over 50% of the rural poor experience deprivations in *all five such dimensions* simultaneously. We are characterizing specific population profiles and associated health outcomes to present avenues for integrating interventions and identifying populations where integration could be most effective to improve health, equity, and well-being.

### What do you see as your research trajectory?

I came to public health via ecology out of a drive to do more applied work to improve human health and well-being while still engaging with scientifically interesting and challenging questions. My next steps will be to take my research in a more applied direction, developing skills in applied epidemiology through the Epidemic Intelligence Service (EIS) at CDC. I look forward to continuing thinking about ecological processes, systems thinking, and considerations of scale as I further develop in my career in public health service.

EIS FELLOW  
CLASS OF 2024



**Epidemic Intelligence Service (EIS)**  
Boots-on-the-ground disease detectives



Centers for Disease  
Control and Prevention

Stephen G Mugel  
Episode Premiere  
February 2023



Virulent Vortex Podcast



## IDASTP STEERING COMMITTEE



**Jacobus de Roode, PhD**  
*Director, IDASTP*  
*Samuel C. Dobbs Professor of Biology*  
*Emory College of Arts and Sciences*  
*Member, Board of Directors, Rosalynn Carter*  
*Butterfly Trail*



**Lance Waller, PhD**  
 Professor, Department of  
 Biostatistics and Bioinformatics,  
 Rollins School of Public Health



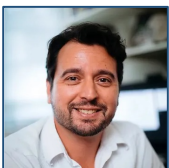
**Anice Lowen, PhD**  
 Professor,  
 Microbiology and Immunology,  
 Emory School of Medicine



**Maya Nadimpalli, PhD**  
 Assistant Professor,  
 Environmental Health  
 Jointly Appointed, Global Health  
 Rollins School of Public Health



**Anne Piantadosi, PhD**  
 Assistant Professor,  
 Pathology and Laboratory Medicine  
 Emory University School of Medicine



**Gonzalo Vazquez-Prokopec, PhD**  
 Associate Professor, Environmental Sciences  
 Winship Distinguished Research Professor in  
 Environmental Sciences  
 Global Health Institute Faculty Distinction Fund  
 Awardee  
 Emory College of Arts and Sciences



**Stephanie Bellman**  
*IDASTP Trainee*  
 Prokopec & Piantadosi Lab  
 Environmental Health Sciences



**Maria Garcia Quesada**  
*IDASTP Trainee*  
 Lopman Lab  
 Epidemiology



**Todd Swink**  
 Associate Director,  
 IDASTP & MP3 Initiative

## 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

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
Dean, Natalie	Biostatistics and Bioinformatics; Epidemiology
Freeman, Matthew	Environmental Health, Epidemiology and Global Health
Gerardo, Nicole M.	Biology
Gillespie, Thomas R.	Environmental Sciences
Goldberg, Joanna B.	Pediatrics
Hunter, Eric	Pathology and Laboratory Medicine
Kitron, Uriel D.	Environmental Sciences
Koelle, Katia	Biology
Kulpa, Deanna	Pathology & Laboratory Medicine
Lau, Max	Biostatistics and Bioinformatics; Epidemiology
Leon, Juan S.	Global Health
Logan, Latoria	Pediatrics
Lopman, Benjamin A.	Epidemiology
Lowen, Anice C.	Microbiology and Immunology
McQuade, Elizabeth Rogawski	Epidemiology
Moe, Christine L.	Global Health
Nadimpalli, Maya	Environmental Health
Piantadosi, Anne	Pathology & Laboratory Medicine
Read, Timothy D.	Medicine (Infectious Diseases)
Rengarajan, Jyothi	Medicine (Infectious Diseases)
Silvestri, Guido	Pathology and Laboratory Medicine
Sullivan, Patrick S.	Epidemiology
Suthar, Mehul	Pediatric Infectious Disease
Tirouvanziam, Rabin	Pediatric Infectious Diseases
Vazquez-Prokopec, Gonzalo M.	Environmental Sciences
Vega, Nic M.	Biology
Waller, Lance A.	Biostatistics and Bioinformatics



### 2024 IDAS Seminar Series

▶ Spring, Tuesdays, 3 PM – 4 PM ET

O Wayne Rollins Research Building,  
Room 1052  
Zoom link sent via IDAS Listserv



[JOIN IDAS LISTSERV](#)

### IDASTP Trainee Application & AOD Application Deadline

▶ **APRIL 4, 2023**



[APPLICATION PORTAL](#)

#### EPISODE 1

Lance Waller and Virulent Vortex Concept

▶ Series Premiere: NOV 2023



**THE MP3 INITIATIVE**  
*From Molecules and Pathogens to  
Populations and Pandemics*

▶ **2024 SEED GRANT LOI DEADLINE**  
**January 15, 2024**

For this cycle, special priority will be given to proposals with teams of researchers who plan to submit subsequent program or center grants.

#### APPLICATION REQUIREMENTS

- Applicant teams consist of 3 faculty members from at least 2 different Emory Operating Units.
- Faculty teams must include at least one junior faculty member.
- Budgets from \$200k-\$250k depending on number of PIs in the team.
- Awardees will commit to submitting subsequent program and center grants

For more details on LOI requirements and submission portal, visit the [MP3 Website](#).



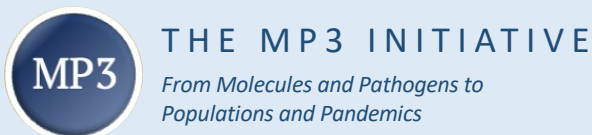
IDASTP is sponsored by the the NIAID and multiple Emory University entities.

We would like to take time to recognize our sponsors.

**YEAR 1-5 SPONSORS**



Emory College of Arts and Sciences  
Department of Biology  
Rollins School of Public Health  
Laney Graduate School



**YEAR 6-10 SPONSORS  
(pending renewal)**

Emory College of Arts and Sciences  
Department of Biology  
Laney Graduate School



Rollins School of Public Health  
Department of Biostatistics and Informatics  
Gangarosa Department of Environmental Health Sciences  
Department of Epidemiology  
Emory School of Medicine  
Division of Infectious Diseases  
Department of Microbiology and Immunology  
Department of Pathology and Laboratory Medicine  
Department of Pediatrics

