

# University of Virginia Division of Infectious Diseases and International Health Fellowship Program





# **Eric Houpt, MD**

**Division Chief**

**University of Virginia Health System  
Division of Infectious Diseases and  
International Health  
Professor of Medicine**



## **Chris Moore, MD**

**Fellowship Program Director**



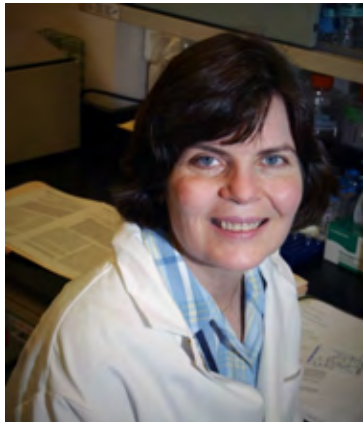
## **Kate McManus, MD**

**Fellowship Associate Program Director**



## **Brian Wispelwey, MD**

**Vice Chief for Clinical Affairs and Education**



## **Barbara Mann, PhD**

**Vice Chief for Research and Faculty Development**

# UVa Infectious Diseases Fellowship Program—Diversity and Inclusion



## Greg Townsend, MD

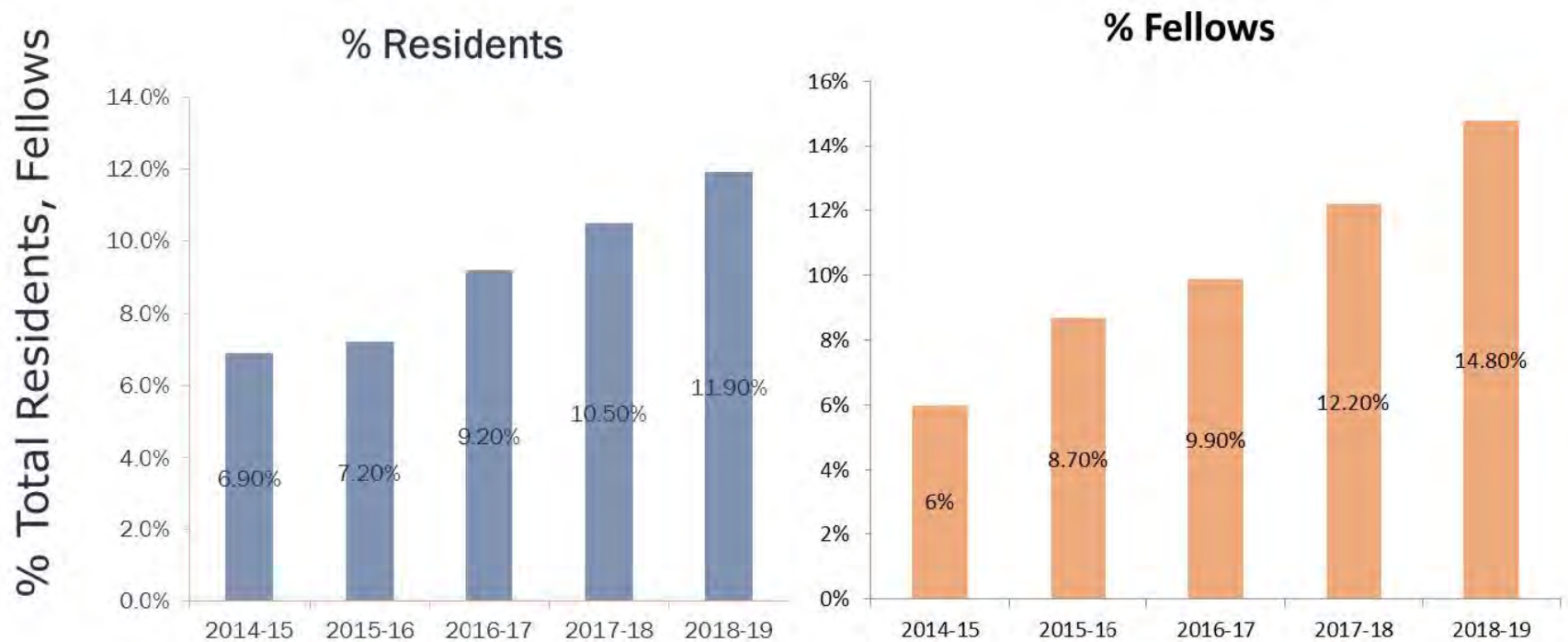
Associate Dean for Diversity and Inclusion,  
School of Medicine

Associate Professor, Division of Infectious  
Diseases and International Health

- **Creating and maintaining a climate of diversity and inclusion are priorities at the School of Medicine and the Division of Infectious Diseases**
- **We recognize that diversity is an *essential* component in our efforts to continue, and to expand upon, the traditions of excellence in the School and the Division of Infectious Diseases**
- **<https://med.virginia.edu/diversity/>**

# ● ● UVa Infectious Diseases Fellowship ● ● Program—Diversity and Inclusion

- ● • 2018—Higher Education Excellence in Diversity Award; 7 years in a row
- ● • 2018—BlackDoctor.org: One of 60 “Top Hospitals for Diversity”





# **UVa Infectious Diseases Fellowship Program**

- Committed to producing the next generation of leaders in infectious diseases through outstanding clinical and research training with the ultimate goal of preventing and optimally treating infectious diseases here and around the world**
- Committed to a collegial and supportive environment in the care of patients, research, teaching, and learning**

# UVa Infectious Diseases Fellowship Program

- **3 year NIH T-32 supported training program (ID x 43 yrs; Biodefense x 17 yrs!!)**
- **Year 1: dedicated research training**
- **Years 2 & 3: Six months each of clinical training and research training**





# UVa Infectious Diseases Fellowship Program— The Research Experience

- **Goal: To progress from an outstanding medical resident to a much sought after Assistant Professor in 3 years**





# **UVa Infectious Diseases Fellowship Program— The Research Experience**

- **How?**
  - **Research acumen in a focused area of infectious diseases**
  - **Track record of peer reviewed publications**
  - **Propose research compelling enough to receive extramural funding**
    - **National Institutes of Health**
    - **Burroughs-Wellcome Fund**
    - **Gates Foundation**
    - **Harold Amos Faculty Dev't Program**

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# UVa Infectious Diseases Fellowship Program— The Research Experience





# **UVA Infectious Diseases Fellowship Program— The Research Experience**

- **Research development**
  - **Work with one or more faculty members from the Division of ID&IH and/or affiliated departments**
  - **Extensive mentoring, individualized research plan and an advisory committee**
  - **Protected time for research**
  - **Superb research infrastructure and support**

# UVA Infectious Diseases Fellowship Program— The Research Experience

- **Research portfolio**
  - **Basic laboratory science**
  - **Translational science**
  - **Clinical science**



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# UVA Infectious Diseases Fellowship Program— The Research Experience



# UVA Infectious Diseases Fellowship Program— The Research Experience

## Bacterial diseases

- Biodefense pathogens
- Enteric pathogens
- *Campylobacter*
- *C. difficile*
- *Neisseria*/STDs
- *S. aureus*
- MDROs
- *M. tuberculosis*
- Sepsis

## Parasitic diseases

- Amebiasis
- Cryptosporidiosis
- Giardiasis
- Malaria



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# UVA Infectious Diseases Fellowship Program— The Research Experience





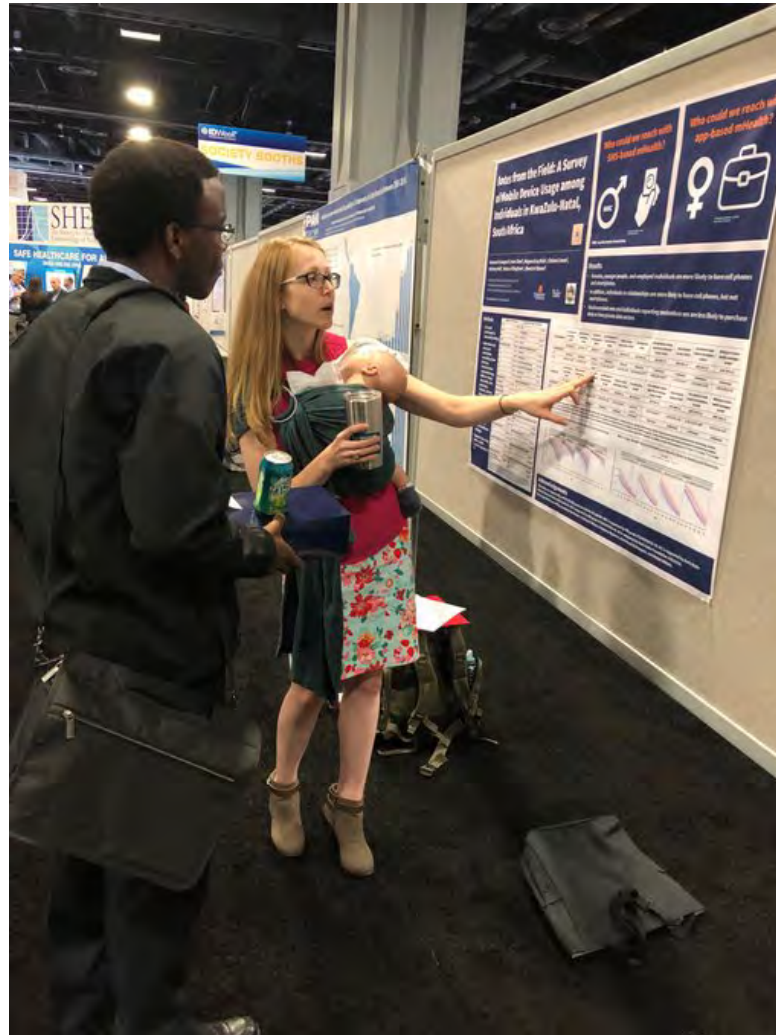


# **UVA Infectious Diseases Fellowship Program— The Research Experience**

- **Virology (HIV, HCV, HHV-8, Influenza, Ebola)**
- **Host genetics**
- **Epidemiology**
- **Immunology**
- **Molecular diagnostics**
- **Health policy and outcomes**
- **mHealth**

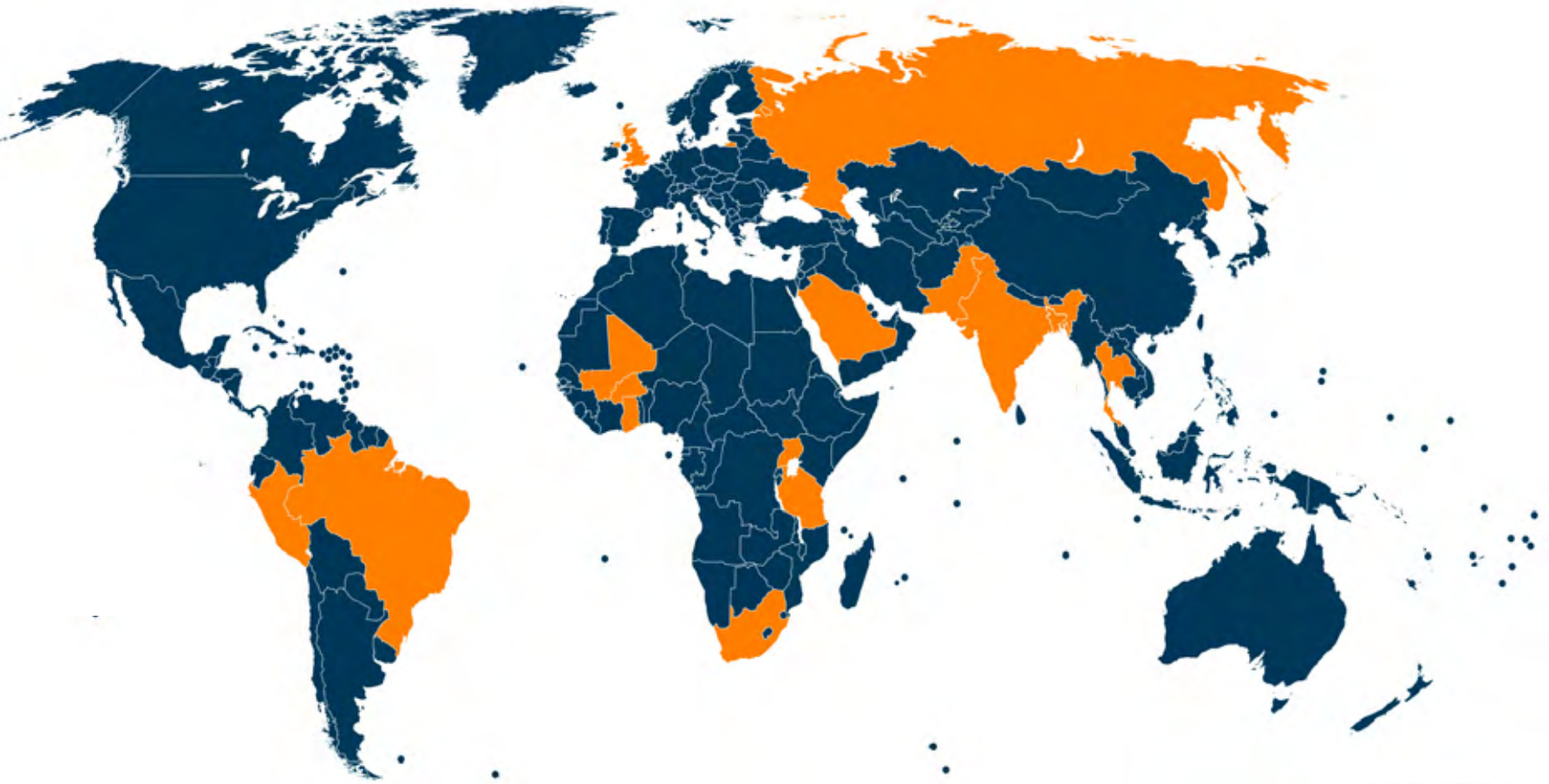
- **Hospital epidemiology**
- **Antibiotic stewardship**
- **Predictive analytics**
- **Transplant infections**
- **Clinical trials**

# UVa Infectious Diseases Fellowship Program— The Research Experience



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# UvA Infectious Diseases Fellowship Program— International collaborations



# UVa Infectious Diseases Fellowship Program— The Research Experience



# UVA Infectious Diseases Fellowship Program— The Research Experience

- **Dean's Excellence in Research Award**

- **Heysell, Houpt, Mathers, Petri, Platts-Mills**

- **UVA Distinguished Scientist Award**

- **Petri, Scheld**

- **Bailey K Ashford Medal, ASTMH**

- **Houpt, Kosek, Mann**

- **Oswald Avery Award, IDSA**

- **Houpt, Petri**

- **Maxwell Finland Award, NFID**

- **Guerrant**

- **Walter Reed Medal, ASTMH**

- **Guerrant**

- **Walter E Stamm Mentor Award, IDSA**

- **Guerrant**

- **Alexander Fleming lifetime achievement award, IDSA**

- **Scheld**

# UVa Infectious Diseases Fellowship Program— The Research Experience

- **Research funding**
  - Annual grants and contract awards of **~20 million dollars per year**
  - Highest in the Department, School of Medicine, and University of Virginia



National Institute of  
Allergy and  
Infectious Diseases



CENTERS FOR DISEASE  
CONTROL AND PREVENTION



# UVA Infectious Diseases Fellowship Program— The Research Experience



# UVa Infectious Diseases Fellowship Program— Fellow publications

THE LANCET Global Health

INFECTION CONTROL &  
HOSPITAL EPIDEMIOLOGY

Clinical  
Infectious  
Diseases

JCI The Journal of Clinical Investigation  
*Scholarly science. Biomedical impact. Free access.*  
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PLOS | PATHOGENS

Mucosal Immunology  
OFFICIAL JOURNAL OF THE SOCIETY FOR MUCOSAL IMMUNOLOGY

The Journal of  
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ASTMH  
AMERICAN SOCIETY OF TROPICAL MEDICINE & HYGIENE  
ADVANCING GLOBAL HEALTH SINCE 1903

THE AMERICAN JOURNAL OF  
TROPICAL MEDICINE AND HYGIENE  
official Journal of the American Society of  
Tropical Medicine and Hygiene



# UVa Infectious Diseases Fellowship Program— The Clinical Experience



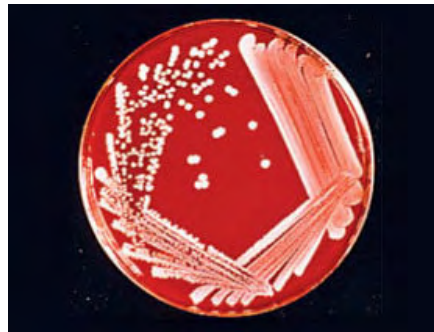
# UVA Infectious Diseases Fellowship Program— The Clinical Experience

- **Microbiology laboratory orientation**



**Mendy Poulter, PhD**

Director of Clinical Microbiology



**Amy Mathers, MD**

Associate Director of Clinical Microbiology



# **UVA Infectious Diseases Fellowship Program— The Clinical Experience**

- **Inpatient consultations**
  - **General infectious diseases and HIV**
    - **Two clinical fellows**
  - **NP and attending only team**
    - **Improves fellow work flow**
  - **Non-HIV immunocompromised ID  
(Solid organ and stem-cell transplant  
patients; liquid tumors)**
    - **One clinical fellow and one NP**

● ● **UVA Infectious Diseases**  
● ● **Fellowship Program—**  
● ● **The Clinical Experience**

- ● • **Outpatient infectious diseases clinics**
  - ● • **Ryan White HIV clinic**
  - ● • **General infectious diseases**
  - ● • **Transplant**
  - ● • **Travel**
  - ● • **TB & NTM**
  - ● • **Hepatitis C**
  - ● • **Musculoskeletal**
  - ● • **Complicated *Clostridium difficile***
- ● • **Antibiotic stewardship **elective****
- ● • **Dedicated non-fellow OPAT team**

# UVA Infectious Diseases Fellowship Program— Learning Opportunities



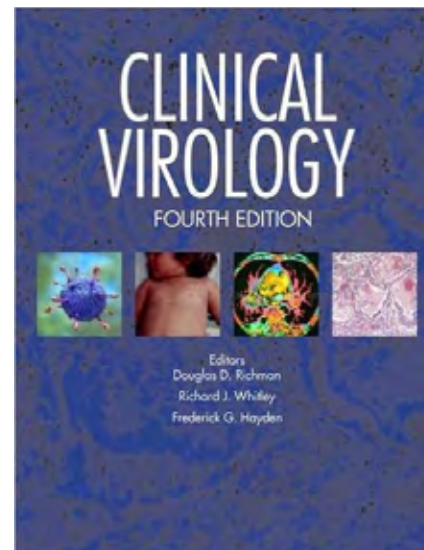
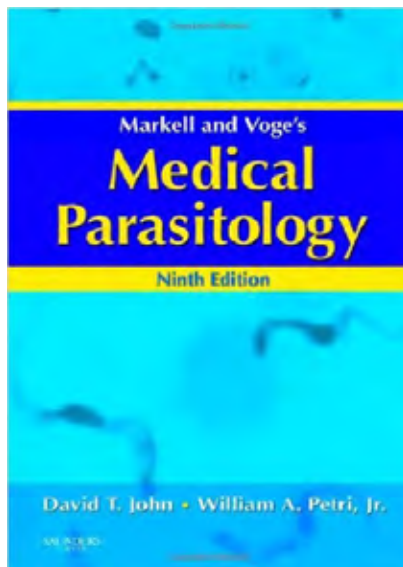
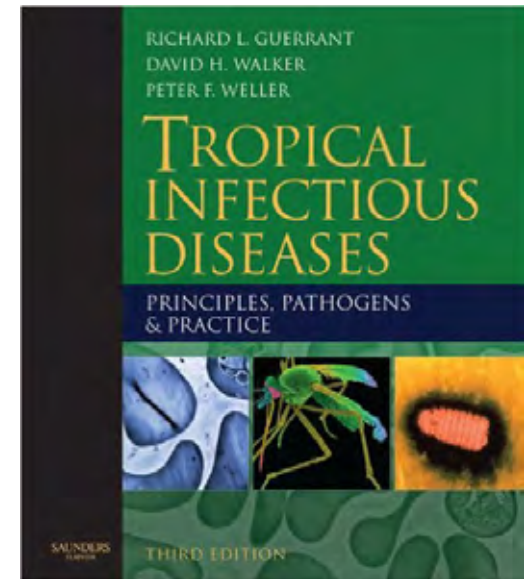
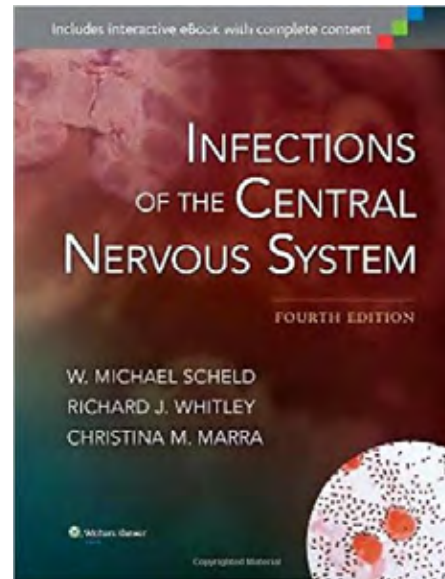
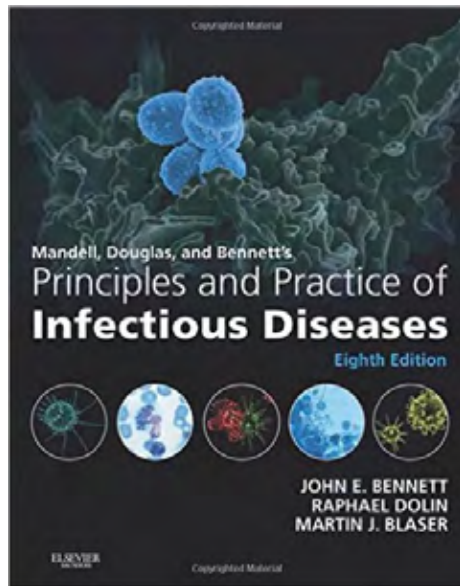
- Case conference
- Didactic conference
- HIV didactic/case conference
- Transplant ID didactic
- Journal club
- Clinical microbiology rounds
- Research seminars
- Research in progress
- Board review course
- Public Health Sciences certificate
- National meetings (eg ID week, ASTMH)
- **ASTMH Diploma Course Certification**



# **UVa Infectious Diseases Fellowship Program— Learning opportunities**

- **Faculty teaching excellence**
  - **Dean's Excellence in Teaching Award**
    - **Dillingham, Houpt, Hughes, Mathers, Sifri, Townsend, Wispelwey**
  - **David A. Harrison Distinguished Educator Award**
    - **Rein, Scheld, Wispelwey**
  - **All University Teaching Award**
    - **Dillingham, Donowitz, Petri, Wispelwey**
  - **Outstanding Faculty Award—State Council of Higher Education, Virginia**
    - **Hewlett, Petri**

# UVA Infectious Diseases Fellowship Program— Learning opportunities



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# UVa Infectious Diseases Fellowship Program— Learning opportunities





● ● UVa Infectious Diseases Fellowship Program—  
● ● Current fellows



# UVA Infectious Diseases Fellowship Program— Current fellows

Fellow	PGY	Residency	Project	Mentor
Alkabab	6	UVA/ABIM Research Pathway	TB & DM outcomes in Bangladesh/ <b>F31 submitted</b>	Heysell
Campbell	6	U Texas-MB	mHealth for ART adherence	Dillingham
Mohamed	6	U Tennessee	Clinical tuberculosis and diabetes in Tanzania	Heysell
Park	6	UVA	Nosocomial transmission of MDROs/ <b>K23 submitted</b>	Mathers
Parpia	5	Georgetown	Enteric infections in Tanzanian children	Platts-Mills
Robinson	5	Indiana U	Antimicrobial stewardship	Mathers
Van Aartsen	5	Case Western U	Anti-TB therapy pharmacokinetics	Heysell
Grundy	4	U Texas-Austin	Molecular diagnosis of AFI in Uganda	Haupt
Sasson	4	UVA	SARS-CoV-2 immunity	Petri
Hodges	3	UVA/ABIM Research Pathway	TB, HIV, & SUD linkage to care in Russia	Dillingham



# UVa Infectious Diseases Fellowship Program—



# UVA Infectious Diseases Fellowship Program—Recent fellows

	Year	Current	Funding
Madden	2020	UVA	Academic faculty/ <b>K08 pending</b>
Sherbuk	2020	U South Florida	Academic faculty
Steiner	2020	Ohio State U	Academic faculty/ <b>Burroughs Wellcome Fellowship</b>
Fleece	2019	UAB	Academic faculty
Gray	2019	U Michigan	Academic faculty
Gulleen	2019	U Washington	Post-doc/clinical staff/ <b>T-32</b>
Schnee	2019	U South Carolina	Academic faculty
Ebers	2018	Arkansas	Private practice
Shin	2017	UVA	Academic faculty/ <b>NIH K08</b>
Cheruvanky	2017	UC Riverside	Academic faculty
Covelli	2017	California	Private practice
McManus	2017	UVA	Academic faculty/ <b>NIH K08</b>

- Other destinations: **Cleveland Clinic, Columbia, Duke, Johns Hopkins, LSU, Mt. Sinai, MUSC, Northwestern, Pitt, Stanford, Vermont, Wake Forest, Yale**
- **Last 10 years, 19 NIH K grants funded!**

# Welcome to Charlottesville



# arts

music and more





Small white informational card with illegible text.



# sports

u-v-a! go hoos go









**food**  
eat & drink



# UVa Infectious Diseases Fellowship Program—



# UVA Infectious Diseases Fellowship Program— **Today!**

- **Welcome!**
  - **We hope you enjoy your interactions with faculty and fellows**
  - **We look forward to your questions and comments**
  - **If there is any way that Ginny, Kate, or I can help today or in the future, please let us know**



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# UVA Infectious Diseases Fellowship Program— **Stay in touch!**



**Eric Houghton, MD**  
erh6k@virginia.edu

**Chris Moore, MD**  
ccm5u@virginia.edu

**Kate McManus, MD**  
km8jr@virginia.edu

**Ginny Atwell**  
**Fellowship Coordinator**  
vma9t@virginia.edu  
434.243.6832



**@UVA\_ID**