

The University of Georgia

is seeking to fill multiple faculty positions through a cluster hire in
Artificial Intelligence, Data Science, & Infectious Disease Dynamics

Information: ceid.uga.edu/idd

[Center for the Ecology of Infectious Diseases \(CEID\)](#)

[Institute of Bioinformatics \(IOB\)](#)

[Department of Statistics, Franklin College of Arts and Sciences](#)

[Odum School of Ecology](#)

[School of Chemical, Materials and Biomedical Engineering, College of Engineering](#)

[Department of Epidemiology & Biostatistics, College of Public Health](#)

The **University of Georgia** (UGA) is hiring a cluster of eight tenure-track or tenured faculty in Artificial Intelligence, Data Science, and Infectious Disease Dynamics through a Presidential Faculty Hiring Initiative over two years, five with target start date in August 2022 and three with target start date in August 2023.

This cluster will strengthen and expand UGA's position as a global leader in infectious disease dynamics. Recognized globally for its contributions to disease ecology, epidemiology, and evolution, UGA is seeking to build on its existing core strengths in modeling pathogen spillover, transmission, interventions, and spatial spread by expanding its capabilities in epidemic forecasting, biosurveillance, applications of artificial intelligence to infectious disease research and infectious disease dynamics, and nonparametric, agent-based, and multi-scale modeling of disease transmission.

UGA seeks to expand research at the cutting edge of infectious disease science, and build scientific capacity for pandemic prevention and preparedness. This hiring cluster is aimed at developing an integrated basic and translational scientific paradigm for understanding epidemics. In line with these goals and new national priorities pertaining to pandemic prediction and preparedness, UGA is seeking data scientists cross-trained in epidemiology, ecology and informatics. UGA is currently hiring for five faculty positions in one of four schools or colleges:

[*The Department of Statistics, Franklin College of Arts and Sciences*](#)

[*The Odum School of Ecology*](#)

[*The School of Chemical, Materials and Biomedical Engineering, College of Engineering*](#)

[*The Department of Epidemiology & Biostatistics, College of Public Health \(2 positions\)*](#)

To facilitate interaction among these researchers, each faculty member will have membership in the *Center for the Ecology of Infectious Diseases* (CEID) and/or the *Institute of Bioinformatics* (IOB). Collectively, these new faculty members will help position UGA to contribute to anticipated national networks of centers for molecular epidemiology, predictive intelligence for infectious diseases, and infectious disease forecasting, modeling, and analytics.

In the coming years, the University of Georgia will hire a total of 50 faculty in eight clusters through the Presidential Interdisciplinary Faculty Hiring Initiative in Data Science and Artificial Intelligence (<https://t.uga.edu/7hW>).

The five currently open positions start on August 1, 2022, and are academic year appointments (9 months) with an opportunity to supplement salary during the summer. Review of applications begins November 15, 2021 and continue until filled. All applications received by November 15th, 2021 will receive full consideration. Applications should include: 1) cover letter, 2) curriculum vitae, 3) research statement highlighting interest in and contributions to infectious disease modeling and forecasting, 4) teaching statement, and 5) statement on commitment to diversity, equity and inclusion. Applicants should also provide names and contact information for at least 3 references using the online system.

The University of Georgia is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, gender identity, sexual orientation or protected veteran status.

Application of artificial intelligence to the study of infectious disease dynamics

School of Chemical, Materials and Biomedical Engineering | cmbe.uga.edu

Tenured or tenure-track faculty position at the rank of Assistant, Associate, or Full Professor.

Qualifications: Candidates must have a Ph.D. degree in Biomedical Engineering, Bioengineering or a related discipline. The successful candidate will have an excellent creative research record in one of the following areas: Nonparametric models or nonlinear dynamical models of infectious disease transmission, identification of nonlinear dynamical systems with neural nets, reinforcement learning for control of disease outbreaks, functional data analysis, or similar related areas. A demonstrated record exhibiting leadership traits, effective communication, and ability to develop innovative programs is desired.

Responsibilities: The successful applicant will be expected to (1) establish an outstanding research program recognized both nationally and internationally, (2) foster partnerships within and outside the University of Georgia as well as industry, (3) exhibit a strong commitment to teaching excellence at the undergraduate and graduate levels, and (4) compete successfully for extramural funding to support research and companion graduate and postdoctoral training programs.

Apply: <https://www.ugajobsearch.com/postings/226004>

Questions: Associate Professor, K. Melissa Hallow (hallowkm@uga.edu)

Infectious disease modeling and forecasting

Department of Statistics in the Franklin College of Arts and Sciences | stat.uga.edu

Tenured or tenure-track faculty position at the rank of Associate or Full Professor.

Qualifications: Candidates must have PhD degree in Statistics or a related discipline. We especially seek applicants specializing in spatiotemporal modeling of disease transmission with expertise in artificial intelligence, time series analysis, machine/deep learning methods, mechanistic epidemic modeling, causal inference, semiparametric models, and/or Bayesian methods.

Responsibilities: The successful applicant will be expected to have a strong collaborative research program with external funding, contribute to teaching courses in statistics and disease modeling at the undergraduate and graduate levels, be engaged in supervision of dissertation research, and contribute to service to the department, university, and the profession.

Apply: <https://www.ugajobsearch.com/postings/224764>

Questions: Department Head, Dr. T.N. Sriram (tn@uga.edu)

Biostatistics and machine learning applied to infectious diseases

Department of Epidemiology & Biostatistics in the College of Public Health
publichealth.uga.edu/epibio

Tenured or tenure-track faculty position at the rank of Associate or Full Professor.

Qualifications: Candidates must have a PhD in Biostatistics, Statistics, or a related field; candidates with an equivalent terminal degree (e.g. MD, DSc, DrPH) will also be considered. We especially seek internationally recognized scholars at or above the rank of Associate Professor or equivalent. Candidates should have a proven track-record of work at the interface of biostatistics and infectious diseases. Applicants should be working in an area related to biostatistics, data analytics, machine learning, AI, or mathematical and computational modeling of infectious diseases. Specific areas of interest include, but are not limited to: adaptive Bayesian design of vaccine trials, analysis of high-dimensional data, analysis of diverse data streams, infectious disease forecasting, modeling of infectious disease dynamics, and causal inference.

Responsibilities: The successful candidate will be expected to continue a trajectory of increased research productivity and successful extramural funding. Teaching of undergraduate and graduate courses offered by the department is expected. Service and outreach activities in the form of commitment to student mentoring and supervision of projects and dissertation research, service to the department, college and university, as well as the scientific profession are also expected.

Apply: <https://www.ugajobsearch.com/postings/225496>

Questions: Chair of the search committee, Andreas Handel (ahandel@uga.edu)

Modeling, statistics, and analytics of infectious diseases

Department of Epidemiology & Biostatistics in the College of Public Health
publichealth.uga.edu/epibio

Tenured or tenure-track faculty position at the rank of Assistant or Associate Professor.

Qualifications: Candidates must have a PhD in Biostatistics, Statistics, or a related field; candidates with an equivalent terminal degree (e.g. MD, DSc, DrPH) will also be considered. Applicants should be working in an area related to biostatistics, data analytics, machine learning, AI, or mathematical and computational modeling of infectious diseases. Specific areas of interest may include, but are not limited to, multi-scale modeling of vaccines and immunology, forecasting of infectious diseases and interventions, and data analytics or modeling applied to infectious diseases at the individual patient or population levels.

Responsibilities: The successful candidate will be expected to develop a strong and productive research program with extramural funding. Teaching of both undergraduate and graduate courses offered by the department is expected. Service and outreach activities in the form of commitment to student mentoring and supervision of projects and dissertation research, service to the department, college and university, as well as the scientific profession are also expected.

Apply: <https://www.ugajobsearch.com/postings/225502>

Questions: Chair of the search committee, Andreas Handel (ahandel@uga.edu)

Quantitative Disease Ecology

Odum School of Ecology | ecology.uga.edu

Tenured or tenure-track faculty position at the rank of Associate or Full Professor.

Qualifications: Candidate must have a PhD in Ecology, Evolutionary Biology, or a related field. The successful candidate will have expertise in the computational analysis of pathogen or parasite transmission, mathematical modeling, and/or phylodynamic methods applied to diseases of global concern including zoonoses, emerging and re-emerging infectious diseases, diseases impacting humans, livestock or endangered species.

Responsibilities: The faculty member will contribute to teaching courses at the graduate and undergraduate levels in infectious disease ecology and other topics depending on their areas of expertise. The ideal candidate will also provide institutional leadership with a part-time administrative position as Associate Director of the Center for the Ecology of Infectious Diseases.

Apply: <https://www.ugajobsearch.com/postings/224861>

Questions: Chair of the search committee, John Drake (jdrake@uga.edu)