



Companion Animal Parasite Council  
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[www.capcvet.org](http://www.capcvet.org)  
[www.petsandparasites.org](http://www.petsandparasites.org)

## Veterinary Biostatistician Postdoctoral Fellowship

The Companion Animal Parasite Council (CAPC) is a non-profit organization whose mission is to foster animal and human health, while preserving the human-animal bond, by generating and disseminating credible, accurate and timely information for the diagnosis, treatment, prevention and control of parasitic infections. We are an independent council established to create guidelines for the optimal control of internal and external parasites that threaten the health of pets and people, bringing together broad expertise in parasitology, internal medicine, public health, veterinary law, private practice and association leadership. Working closely with the animal health industry, our overarching goal is to change the way veterinary professionals and pet owners approach parasite management via best practices that better protect pets from parasitic infections while reducing the risk of zoonotic parasite transmission.

CAPC is currently seeking a postdoctoral fellow for the newly created, two-year **Boehringer Ingelheim Vetmedica, Inc. - CAPC Infectious Disease Postdoctoral Fellowship**. The postdoctoral fellow will work with the mathematical modelers Drs. Robert Lund and Christopher McMahan at Clemson University and parasitologist Dr. Michael Yabsley at The University of Georgia. The role of this post-doc in our organization is to oversee, advance, and communicate CAPC vector-borne disease modeling and forecasting efforts, including Lyme, Ehrlichiosis, Heartworm, Anaplasmosis, and other diseases related to companion animal health.

### Overview:

This two-year post-doc fellowship is intended to extend, refine, and enhance professional and career development skills in veterinary infectious disease modeling and will enable the fellow to broaden his/her scientific background via new research capabilities. Competitive candidates will have a record of scholarship; applicants with experience in the mathematical modeling of infectious diseases and/or the statistical analysis of large datasets (big data) are especially desired. The postdoctoral fellow is expected to have a DVM. Ideal candidates will have some statistics and modeling experience and an interest in infectious disease modeling. Applicants with a background in the mathematical modeling of infectious diseases and/or population biology are strongly encouraged to apply.

The postdoctoral fellow will conduct independent scholarly research related to CAPC's disease/pathogen forecasting project and disease mapping, participate in project planning, the procurement of new disease data, its digitization, assessment of its reliability, the statistical analysis of the procured data, and the interpretation and communication of any findings. Journal publications and presentations at national meetings are important

components of this position. The fellow will be part of a disease mapping team containing other junior lab members at Clemson University and/or The University of Georgia.

Specifically, this fellow will:

1. Refine the proprietary CAPC forecasts, with emphasis on increasing automation and computational speed of the current United States algorithm.
2. Initiate research to quantify the effect of preventative immunization on the regional control of Lyme disease.
3. Speak at national veterinary meetings with the goal of providing continuing education regarding parasite prevention and use of CAPC forecast maps as a tool for veterinarians to become the local expert in parasite control.
4. Help quantify changes in the prevalence and geographic distribution of Lyme disease and other tick-borne diseases.

***DESIRED EDUCATION AND EXPERIENCE:***

- DVM strongly preferred
- MPH, MS or PhD in computational biology, computational science, statistics, mathematics, or related fields
- Strong general understanding of infectious disease and parasites
- Exhibited knowledge of statistics, probability, and mathematical modeling

***SKILLS AND ABILITIES:***

- **Excellent communication/interpersonal skills**
- **Strong research skills**
- Values research integrity and collaborative research
- Effective problem solving/critical thinking skills
- Ability to work independently
- Ability to exercise discretion and good judgment
- High level of motivation

**This is a two-year commitment with a required employment contract.**

Enquiries about this position should contact Dr. Shila Nordone  
[shilanordone.ahc@gmail.com](mailto:shilanordone.ahc@gmail.com) or (919) 539-9583

Qualified candidates should send a CV, a statement of research interests, and the names of three references to [shilanordone.ahc@gmail.com](mailto:shilanordone.ahc@gmail.com). Short-listed candidates will be asked to provide writing samples.

