

Andreas Handel  
Department of Biology  
Emory University  
1510 Clifton Road NE  
Atlanta, GA 30322, USA  
404-727-1765  
ahandel@emory.edu  
www.biology.emory.edu/antia/ahandel/

January 22, 2008

Computational Biophysics Search Committee  
Department of Physics and Astronomy  
The University of Georgia  
Athens, GA 30602-2451

Dear Members of the Search Committee,

I am writing to apply for a tenure-track faculty position in computational biophysics at the University of Georgia.

I obtained my Ph. D. in Physics from the Georgia Institute of Technology in 2004. Since then I have been a postdoctoral researcher in the Biology Department at Emory University. Currently, I am the Principal Investigator of an NIH K25 grant (\$365,000), which was awarded to me in May 2007.

In my research, I use mathematical and computational approaches to study the processes that drive pathogen dynamics on different spatial and temporal scales. I am especially interested in the complex interactions between pathogens, drugs and the immune system. My work involves several biological and biomedical fields, such as immunology, microbiology, pharmacology, ecology, epidemiology, and evolutionary biology. The tools I use come mostly from the areas of applied mathematics, physics, scientific computation and statistics.

My background in Physics provides me with familiarity of the coursework and the field. In addition, the research performed during my Ph. D., and even more so my current work, have taught me how to work and collaborate effectively across disciplines. I believe that the combination of my background and my research makes me well suited to significantly contribute to both research and teaching within the department, to help grow the biophysics program and the Center for Simulation Physics, to facilitate close interdisciplinary collaborations with other departments and research units at UGA and to contribute towards UGA's continued development as a nationally and internationally renowned institution.

I have asked four of my current collaborators, namely Professors Rustom Antia, Ira Longini, Bruce Levin and Sergei Pilyugin, to provide letters of recommendation. I would be happy to provide additional recommendation letters from former or current colleagues and mentors.

For further information about myself and my research, as well as a brief teaching statement, please see the enclosed documents.

Thank you for your consideration of my application and I look forward to hearing from you.

Sincerely,

Andreas Handel