

Biostatistics Department
HS 3017 BIOS
Indianapolis, IN 46202

November 12, 2018

Dear Faculty Search Committee:

I am writing to apply for a position in the Precision Health Data Sciences and Informatics Faculty at the Indiana University School of Medicine. I am currently a Ph.D. candidate in the Biostatistics Department at the Indiana University Richard M. Fairbanks School of Public Health. In addition to my academic position, I am also employed full-time as a Data Scientist at Capital Group Companies. Enclosed please find my Curriculum Vitae, Research Statement, and List of References.

The focus of my research is on developing Bayesian computation methods for statistical inference and prediction. One particular area of my research is the application of Hamiltonian Monte Carlo to high-dimensional models such as semiparametric regression. Fitting such models can be challenging using currently available software. I am developing an **R** package to fit these models using syntax that is familiar to applied statisticians today.

My professional background in industry is comprised of 15 years of applying statistical and computational methods to solve business problems. I have managed or have been a major contributor in providing technology solutions in diverse industries such as financial services, health insurance, and manufacturing. My skillset includes applying data science using **R**, Python, C++, SQL, and SAS. I also have 8 years of teaching experience at Ivy Tech Community College and have the ability to make complex topics understandable to non-technical audiences.

I am excited about the potential opportunity to apply my computational research to Indiana University's Precision Health Initiative, and to help improve the lives of many people throughout the world.

Thank you for your time and consideration for this position. Please feel free to contact me if I can provide any additional information.

Sincerely,

Samuel Thomas