

Education

2000-2004	Graduate coursework in Biology.	University of Minnesota.	Minneapolis, MN
2000:	MS, Computer Science.	The University of Michigan.	Ann Arbor, MI
1996:	BS, Computer Science.	The University of Michigan.	Ann Arbor, MI

Employment History

2004 - Present: Principal Investigator / Director
BioTeam, Inc. <http://bioteam.net>

BioTeam is a consulting company specialized at the interface between high performance computing and scientific research. Customers include major pharmaceutical companies, universities, government agencies, and smaller organizations. BioTeam provides a range of services including technical assessments, custom software development, and the deployment of large compute and data resources.

In my full time role as Principal Investigator, I assess, design, deploy, and support large compute clusters and Petabyte scale storage for customers including the Navy Medical Research Lab, NASA, and MIT. In addition, I serve on the board of the company as the Director of Professional Services. In this role I am responsible for scheduling and managing all consulting activities of the company, as well as for strategic corporate decision-making. I was also primarily responsible for the Inquiry software product, which was installed on more than 250 compute clusters worldwide.

2000 – 2004: Bioinformatics Programmer
Center for Computational Genomics and Bioinformatics, University of Minnesota, MN

The “CCGB” was a research computing / bioinformatics service center within the University of Minnesota. Its role was to provide compute and data resources to life sciences researchers, and also to perform primary research and development in bioinformatics. My role was to support high throughput genomics with a focus on RNA expression in legumes. In addition, I developed and deployed a wide area cluster / grid for BLAST analysis, and customized the EnSEMBL pipeline for plant research.

1996 – 2000: Research Engineer
ERIM / Veridian Systems. Ann Arbor, MI

Veridian Systems (formerly ERIM International, now a subsidiary of General Dynamics) was a military R&D contractor specializing in signal and image processing, as well as pattern recognition. My work was to implement target recognition algorithms for infrared, imaging radar, and hyperspectral sensors.

1995 – 1996: Systems Administrator
Computer Aided Engineering Network. The University of Michigan, Ann Arbor, MI

Publications

"Genome Sequence Survey Identifies Unique Sequences and Key Virulence Genes with Unusual Rates of Amino Acid Substitution in Bovine Staphylococcus aureus." Lisa Herron, Rajit Chakravarty, Christopher Dwan, J. Ross Fitzgerald, James M. Musser, Ernest Retzel, Vivek Kapur. Infection and Immunity, July 2002

“Inside the Box.” Bio-IT World, regular column, 2004 – present.

Non life sciences publications available on request.

References available upon request