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**BARBARA L. BANBURY, PH.D.**

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**OBJECTIVE**

Seeking a data science position where my academic research background can be applied to build quantitative models that predicts customers' behavior and improves their experience.

**SKILLS**

Research: statistical/analytical analysis, modeling data, summarizing results

Computational: proficient programming in R, Unix/Linux operating systems, SGE and Condor computing clusters, basic shell and scripting languages

Interpersonal: work well on a team, online collaboration and mentoring, effective communicator

**PROFESSIONAL EXPERIENCE****Postdoctoral Research Associate. 2013–current**

Department of Biology, University of Washington, Seattle, WA

- Developed new pipeline for analyzing bioinformatics data
- Created a web interface for visualizing and manipulating data in real time
- Developed methodology and implemented a curation plan for the large genomics library
- Mentored graduate students

**Postdoctoral Research Associate. 2010–2013**

Department of Ecology and Evolutionary Biology, University of Tennessee, Knoxville, TN

- Developed two new software packages in R with cross-country collaborators
- Developed new comparative method using Bayesian statistics for use in population modeling and macroevolution
- Worked as part of an interdisciplinary research team that made recommendations to develop a cyberinfrastructure foundation for the scientific community
- Supervised graduate student research projects spanning biological, statistical, and computer programming fields

**Graduate Teaching Assistant. 2005–2010**

School of Biological Sciences, Washington State University, Pullman, WA

- Responsible for teaching a variety of undergraduate classes
- Developed course curricula, lectures, and material content
- Employed active learning techniques to maximize student involvement

**EDUCATION**

- 2010      Ph.D. Zoology, Washington State University, Pullman, WA.
- 2005      M.S. Biology, Missouri University of Science and Technology, Rolla, MO.
- 2002      B.S. Organismal Biology, The University of Kansas, Lawrence, KS.

**VOLUNTEER WORK**

- Google Summer of Code Mentor, project TreEvo Optimization, 2012
- Volunteer for Sharing Adventures in Engineering and Science (SHADES), 2011–2013
- Peer Reviewer for various scientific journals, 2010–current
- Volunteer for Expanding Your Horizons, 2003–2004 (STEM education for girls)