Eleisha L. Jackson

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SUMMARY: Computational Biologist with skills in large-scale data analysis, teaching, and technical writing.

RELEVANT EXPERIENCE

Graduate Researcher, University of Texas at Austin, Austin, TX

Aug 2012-Present

- Performed and presented current research results every three months at lab meetings
- Supervised an undergraduate on a project and helped guide learning of python and biological software
- Wrote a grant that provided funding in the form a National Science Graduate Research Fellowship that pays \$32,000 a year for three years with additional tuition assistance paid to the university

Project 1: Amino-acid site variability among natural and designed proteins

- Analyzed the ability of current protein design software to design proteins that recapitulate observed sequence patterns in natural proteins
- Worked as a team with another lab in California to design proteins and analyze results
- Summarized project results and helped write the research paper for publication as the first author
- Presented the results at a conference in the form of a poster

Project 2: Computational Prediction of Virus-Host Protein-Protein Interactions

- As part of a multi-lab government funded project, I collaborated with three other labs to investigate the evolution of viruses that cause hemorrhagic fever and death in humans.
- Developed a method to make computational predictions of virus-host protein binding
- Worked with experimental labs to validate computational protocol
- Wrote lab guarterly reports that were integrated into a project-wide report for funding agency reports Project 3: Relationship between thermodynamic constraints and variation of evolutionary rates among sites
- Worked with an international collaborator to link protein thermodynamic changes to protein evolution.

Graduate Teaching Assistant - Intro to Computational Biology FRI (BIO 321G) Jan-May 2013, 2014

- Assisted students in learning biological concepts and computational skills such as python programming
- Helped students learn research skills such as experimental design, technical writing and presentation

Graduate Teaching Assistant - Laboratory Experiments in Biology (BIO 206L) Aug-Dec 2012

- Instructed and assessed students weekly on standard lab practices and basic lab techniques
- Graded assistants and communicated feedback to students to help improve their performance
- Held weekly office hours to discuss course content, give feedback and answer student questions

CNS 101 Lead Facilitator, University of Texas at Austin, Austin, TX August 2014-Present

- Developed and taught lesson plans to a group of freshman students about campus resources, timemanagement, careers, and college adjustment and developed strategies to improve CNS 101
- Worked with an undergraduate peer facilitator to develop a curriculum that helped students learn technical computer science (CS) skills while learning general skills such as study strategies
- Led weekly meetings of a group of students during the Fall semester and supervised extended biweekly meetings during the Spring where students developed their own CS project to execute

TECHNICAL SKILLS

- Proficient in Microsoft Office (Excel, Powerpoint, Word)
- Worked in several programming languages: Python, C, and R, Software and biological packages: Rosetta, FoldX, PyMOL, and Biopython, git for version control and project collaboration
- Experience writing research summary reports using Word and LaTex

EDUCATION

Ph.D. in Ecology, Evolution, and Behavior, Dept. of Integrative Biology.

Expected 2017

The University of Texas at Austin, Austin, TX.

Bachelor of Science, Mathematics, Biology, Art History Minors University of Arizona, Tucson, AZ

May 2012