MICHELLE HWANG

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OBJECTIVE

To obtain a challenging full-time position applying my computational and organizational skills that focuses on data driven science and technology. Available to start upon graduation in May 2017.

EDUCATION

UNIVERSITY OF GEORGIA, ATHENS, GA
Biology, concentration in Bioinformatics, Master's Candidate - Thesis Track, May 2017
▪ GPA: 3.81/4.0

UNIVERSITY OF MICHIGAN, ANN ARBOR, MI
Life Science Informatics, Bachelor of Science, May 2015
▪ GPA: 3.47/4.0

EXPERIENCE

GRADUATE RESEACHER, UNIVERSITY OF GEORGIA, LEBEENS-MACK LAB
SEPT 2015 - PRESENT

- Identified candidate regulators for the CAM photosynthesis pathway in the orchid genus *Erycina* using a time series clustering-based analysis on RNA-Seq expression data.
- Found evidence of an exchange of small RNA between cross-kingdom species *S. flava* and *Miscanthus x giganteus* through the analysis of miRNA and their transcriptome targets.

RESEARCH ASSISTANT, UNIVERSITY OF MICHIGAN, BAUCOM LAB
SEPT 2014 – JUNE 2015

- Built a software pipeline to annotate, classify, and analyze transposable elements in plant genomes.
- Classified and compared transposable elements between species in *Solanales* to look for trends in the genome and evolutionary relationships. *(Publication in preparation)*

RESEARCH INTERN, UNIVERSITY OF MARYLAND, HANNENHALLI LAB
JUNE 2014 – AUG 2014

- Identified potential novel binding partner for Ftz-F1 protein that regulates a gene critical in the segmentation pathway of insects using computational methods.
- Mapped the regulatory rewiring of the *engrailed* gene across related species.

TEACHING

TEACHING ASSISTANT, UNIVERSITY OF GEORGIA
SEPT 2016 – PRESENT, *Introduction to Bioinformatics (BINF/PBIO 4550/6550)*

- Explain challenging computational and biological concepts in an intermediate level course supporting 30 undergraduates and graduate students as the primary teaching assistant.

TEACHING ASSISTANT, UNIVERSITY OF MICHIGAN
SEPT 2014 – DEC 2014, *Introduction to Bioinformatics (EEB 401)*

- Addressed student questions and reinforce classroom concepts in an intermediate level course supporting 15 undergraduate and graduate students as the sole teaching assistant.
- Solved students' technical issues with running software through the UM high performance computing cluster.

LEADERSHIP

University of Georgia Graduate Student Association Secretary, 2016-2017
University of Michigan Alternative Summer Break Site Coordinator, 2014-2016

OUTREACH

Georgia Science and Engineering Fair Junior Judge, 2016
Girl Scout Science Day Computer Science Module Co-Leader, 2016
Females Excelling More in Math, Engineering and the Sciences Volunteer, 2014-2015

SKILLS

Languages: Bash, C++, Julia, MySQL, Perl, Python, R
Platforms: Linux, Windows, OS X