DEISE JP GONÇALVES

EVOLUTIONARY GENOMICS | BIOINFORMATICS

CONTACT

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PROFILE

Postdoctoral Researcher at the University of Michigan. Lead scientist and project manager (logistics, wet lab, dry lab, scientific writing, mentorship).

EDUCATION

2019
The University Of Texas At Austin [Austin, TX]
Ph.D. in Plant Biology

2013
State University Of Campinas [Brazil]
Masters in Plant Biology

2009
Federal University Of Uberlandia [Brazil]
Bachelor of Science and Teaching License

MANAGEMENT SKILLS

- Project and Team Management
- Slack, Git, Excel, PowerPoint
- Talent Acquisition

TECHNICAL SKILLS

- Bash, Python, R, cloud computing
- Data visualization
- Data exploration and interpretation
- High-throughput genomic data analyses (HPC, parallel computing)
- Project documentation, organization
- Statistics and Probability
- Scientific writing
- Teaching and public speaking

EXPERIENCE

2020 – PRESENT
Postdoctoral Researcher, University of Michigan

Leadership

- Genomic data analyses from cleaning and filtering to detecting variants and using statistical models to infer relatedness.
- Leading scientific projects, grant writing ($300,000 awarded from multiple agencies during grad school), and training personnel in the field and wet and dry lab.
- Interfacing with sequencing facilities to obtain high-quality genomic data (RNA and DNA) and with scientists in closely related areas to explore data and to look for further insights in research.
- Scientific communication in English, Portuguese, and Spanish to the scientific community and to audiences ranging from high school students to faculty members.
- Led the Student Body in the Department of Integrative Biology and in the Dean's Council of the College of Natural Sciences at UT Austin.

Current Projects

- Leading scientist of the UofM team in an interinstitutional NSF-funded project.
- Analyzing data of hundreds (transcriptome) to thousands (nuclear target capture, genome skimming) of species of an ecologically and economically important plant group.

Past Projects

- Analyzed phylogenetic uncertainty in chloroplast genomes and how it impacts phylogenetic inference. Developed a user-friendly pipeline for data analyses that test the phylogenetic signal of sites or genes.
- Collaborated on the development of a new analytical tool for evolutionary genomics which optimizes data processing time.
- Published scientific papers, gave oral and poster presentations at national and international meetings. Experience teaching and communicating with all ages.
- Co-organized the Austin Chapter of PyLadies.