DEISE JP GONÇALVES

BIOINFORMATICS | EVOLUTIONARY GENOMICS

CONTACT

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PROFILE

Bioinformatician combining genomic data and statistical models to geographic, climate, fossil datasets for R&D. Brainstorming team work, independent short-term development. Doer.

EDUCATION

2019
PhD in Bioinformatics/Plant Biology
The University Of Texas at Austin [Austin, TX]

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

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

MANAGEMENT SKILLS

- Project and Team Management
- Slack, Git, Excel, PowerPoint
- Talent Acquisition
- Personnel training in wet/dry lab
- Planning, organization, multitasking

TECHNICAL SKILLS

- Python, R, Bash
- Statistics and Probability
- Data viz, exploration & interpretation
- NGS data exploration
- HPC, parallel computing
- Scientific writing
- Teaching/public speaking EN, PT, ES

EXPERIENCE

2020 – present **Postdoctoral Researcher**, University of Michigan

Lead scientist and project manager of an interinstitutional NSF project. Logistics, wet lab, dry lab, and scientific writing. Genomic data analyses to detect variants for inference of relatedness, investigating evolution through space and time.

Current Projects

- Analyzing hundreds of transcriptome and thousands of nuclear target capture and genome skimming datasets
- Developing a pipeline to extract orthologs from publicly available transcriptomes and nuclear genomes
- Developing a Python software to automate gene ontology and functional annotation of orthologs
- Writing user-friendly pipelines to manipulate fasta files, phylogenetic trees and csv files
- Collaborating with data analyses on a project to investigate evolution of venom in snakes

Past Projects

- Chloroplast genome evolution and DNA variants. User-friendly pipeline to test the phylogenetic signal of sites and genes
- Collaborated with the development of a new analytical tool to optimize NGS data processing

Leadership and service

- Led scientific projects and grant writing (~$300,000 from NSF and other national/international agencies)
- Published scientific papers, gave presentations at national and international meetings
- Teaches advanced bioinformatics at the MBL, Workshop on Molecular Evolution
- Student's leader for the Department of Integrative Biology and the Dean's Council, UT Austin College of Natural Sciences
- Co-organized the Austin Chapter of PyLadies (Python meetup, 2018); member of [WoC]code
- Science communicator at SACNAS Feria de Ciencias and MI DNA Day Grants & Finance board member

use links for additional information