MAYA GANS

Data Scientist and Web Developer

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PROFILE

I recently graduated with Master's in Science May, 2019. My thesis was on the bacterial communities of a parasitic plant and how it interacts with fungi and adjacent trees. Working in ecology provided the foundation for studying complex, interconnected networks. My interests shifted from my study system to the statistical methods needed to model complex interations and large datasets, and eventually to my main passion, problem solving in JavaScript and data visualization. As an intern at RStudio I've been refining my JavaScript development skills and advancing my knowledge of R. I am also incredibly passionate about music (and open source, transparent products!) and created an API wrapper package in R to scrape the data from phish.net. I also create Phish related inforgraphics for Jambase.com

SOCIAL

linkedin.com/in/mayagans

github.com/mayagans

Maya.rbind.io

Mayacelium

EDUCATION

BACHELOR OF SCIENCE

Florida International Univeristy

2010-2014

MASTER OF SCIENCE

University of Wyoming

2016-2019

EXPERIENCE

Intern

JavaScript Developer
RStudio

2019-2019

Using JavaScript and R to build a blocks based coding language of the Tidyverse for data manipulation and visualization

Student

Master of Science
University Wyoming

2016-2019

Quantifying the bactieral community of *P. andromedea* required techniques in experimental design, laboratory skill, collection and analysis of genetic and geographic data. My course is focused in statistics and computational biology.

Teaching

Lecturuer and Graduate Teaching Assistant
University Wyoming

2016-2019

Teaching the lab portion of Introduction to Biology and Plant and Fungal Biology and Scientific Communications.

Designing and teaching introductory R Programming for Ecologists. Course ranged from exploratory data analysis to visualization.

President

Data Science Club
University Wyoming

2017-2019

Hosting weekly meetings on a range of topics within Data Science ranging from technical hands-on programming techniques to discussions on ethics within machine learning.

EXPERTISE

REGRESSION MODELING

SIGNIFICANCE TESTING

DECISION TREES

CLASSIFICATION MODELS

CLUSTERING

DATA VISUALIZATION

TECH SKILLS

R PROGRAMMING

Neo4j and SQL

Natural Language Processing

Modeling and ML

D3.js

JavaScript

AWARDS

WILHELM G AND RAGNHILD SOLHEIM MEMORIAL SCHOLARSHIP 2019
Totalling $600 for an outstanding Botany graduate student

DATA CARPENTRY 2018
Totalling $1150 for certification to teach R Programming

INSURETECH CONNECT 2018
Totalling $1500 for registraition to attend InsureTech Connect 2018 in Las Vegas, NV

FISHER INNOVATION CHALLENGE 2018
Totalling $31500 for technology start up seed funding

WYOMING NASA SPACE GRANT TRAVEL FUND 2018
Totalling $250 for conference travel and lodging

PUBLICATIONS

Gans, MR, Hodges T, Wilson GV**.** JavaScript for DataScience. CRC Taylor and Francis. 2020.

Gans MR, Dowie NJ, Miller SJ. Invariant communities of endophytic nitrogen-fixing bacteria associated with a non-photosynthetic plant. (in review).

Gans, MR. Custer GF, van Diepen LTA, Buerkle CA. The hypothesis of a 'core' community receives poor support when confronted with simulated and empirical data (in review).

Dowie NJ, **Gans MR**, Grubisha LC, Massicotte HB., Tackberry L. Garibay-Orijel R, Horton TR, Klooster MR, Miller SL. Unearthing Cryptic Specificity through Ectomycorrhizal Fungal Species Delimitation and Co-Biogeographic Patterns of a Tripartite Symbiosis (in review).

PRESENTATIONS

Gans MR. *A blocks based coding language for data transformating and visualization*. Blocky Summit, October 2019. San Francisco, CA

Gans MR, Dowie NJ, Miller SJ. Invariant communities of nitrogen-fixing bacteria associated with *Pterospora andromedea* lineages across a large geographic area. 9th International Symbiosis Society Congress. July 2018. Corvallis, OR.

Gans MR, Custer GF, van Diepen LTA, Buerkle CA. Statistics do not supper the concept of a 'core' microbiome. Plant Biology Symposium: Wild and Tamed Phytobiomes. June, 2018. University Park, PA.

REFERENCES

GREG WILSON
RStudio | 2019-Present
E: *gvwilson@third-bit.com*

SCOTT BERNSTEIN
JamBase | 2019-Present
E: *scottb@jambase.com*

ALEX BUERKLE
Univeristy Wyoming | 2016-2019
P: *1 307 766 4158*
E: *buerkle@uwyo.edu*

KATIE WAGNER
Univeristy Wyoming | 2016-2019
P: *1 307 766 4158*
E: *catherine.wagner@uwyo.edu*

HOBBIES & INTERESTS

PLAYING BASS

MUSIC ANALYTICS

CLIMBING

STATISTICS

PHOTOGRAPHY

D3.js