MAYA GANS

Data Scientist

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PROFILE

I will be graduating from the Unversity of Wyoming with my 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. I am also incredibly passionate about music and have been expanding my R Programming skills as well as understanding of network science by performing analyses related to data from the band Phish.

SOCIAL

linkedin.com/in/mayagans

github.com/mayagans

https://bayesianbabes.netlify.com/

Mayacelium

EDUCATION

BACHELOR OF SCIENCE

Florida International Univeristy

2010-2014

MASTER OF SCIENCE

University of Wyoming

2016-2019

EXPERIENCE

Student

2016-2019

Master of Science
University Wyoming

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

2016-2019

Lecturuer and Graduate Teaching Assistant
University Wyoming

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

2017-2019

Data Science Club
University Wyoming

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

Illustraitor

AWARDS

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

PUBLICATIONS

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, 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

ALEX BUERKLE
Univeristy Wyoming | 2016-2019
P: *1 307 766 4158*
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KATIE WAGNER
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RICHARD ANDERSON-SPRECHER
University Wyoming | 2016-2019
P: *307 766 4229*
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LINDA TA VAN DIEPEN
University Wyoming | 2016-2019
P: *307 766 2781*
E: *lindavandiepen@uwyo.edu*

HOBBIES & INTERESTS

PLAYING BASS

MUSIC ANALYTICS

CLIMBING

STATISTICS

PHOTOGRAPHY

D3.js