

Gerald McCollam

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EDUCATION

JOHNS HOPKINS UNIVERSITY

MSC IN BIOINFORMATICS

Exp: Dec 2019 | Baltimore, MD

Cum. GPA: 3.85 / 4.0

NEW YORK UNIVERSITY

BA IN LINGUISTICS

May 1997 | New York, NY

Gallatin School

Magna Cum Laude

Cum. GPA: 3.65 / 4.0

LINKS

Github:// [geraldmc](#)

LinkedIn:// [geraldmc](#)

Blog:// [geraldmc.github.io](#)

COURSEWORK

GRADUATE

Biostatistics

Cloud Computing

Epigenetics & Gene Expression

Data Structures

Machine Learning

UNDERGRADUATE

Operating Systems

Information Retrieval

Functional Programming

Unix Tools and Scripting

SKILLS

PROGRAMMING

Over 5000 lines:

Python • Shell • R • SQL

Over 1000 lines:

Ruby • Go • C++

Familiar:

Scala • iOS • CSS • JS

DATA SCIENCE/ML

PyTorch • Pandas • Scikit-Learn

Bioconductor • Keras API

CERTIFICATION

- CCDH, Certified Hadoop Developer
- AWS Solutions Architect (Associate)

EXPERIENCE

OPENMINE | CLOUD SOLUTIONS ARCHITECT

Jan 2011 - Present | New Orleans, LA

- Data engineering and analysis at scale.
- Web/cloud services automation.
- API development.

BLADELOGIC/BMC | SOLUTIONS ARCHITECT

Jul 2006 - Feb 2010 | New York, NY

- Principal architect for Pfizer, Novartis, Merrill Lynch, and Vanguard.
- Provided code for provisioning and management of cloud services.

HEWLETT PACKARD ENTERPRISE | SENIOR CONSULTING ENGINEER

Jan 2003 - Jun 2006 | New York, NY

- Consulting Engineer to Time-Warner, Reuters, and MSNBC.

LOUDCLOUD | CONSULTING ENGINEER & TEAM LEADER

Jan 2001 - Jan 2003 | New York, NY & Sunnyvale, CA

- Developed and supported automation tools for PaaS and DevOps integration.
- Managed a distributed team of network, dba, site-reliability, and sysadmin support engineers for 24/7 operations.

RESEARCH

USDA SUSTAINABLE AGRICULTURE RESEARCH AND EDUCATION | GRANT WRITER AND RESEARCHER

Mar 2016 - Jan 2019 | Houma, LA

- Conceived and managed a 2-year **USDA Producer Grant** on crop yield using hyper-spectral imagery captured via aerial drone.
- Predicted yield via machine learning.

ATALLAH LAB | GENOMICS RESEARCHER

Sep 2017 - Present | New Orleans, LA

- Genomics research initiative to explore LINE-1 retrotransposon behavior.

NYU CENTER FOR NEURAL SCIENCE | HHMI RESEARCH ASSOCIATE

Sep 1993 - Dec 1997 | New York, NY

- Led graduate training of students in a range of neurophysiological techniques.

AWARDS

2016-18 **Producer Grant, FS14-282**

2014 Jason Stamps Scholarship Award

1997 Founder's Day Award

USDA Agricultural Research
University of New Orleans
New York University

PUBLICATIONS

[1] J. LeBien, G. McCollam, and J. Atallah. An in silico model of retrotransposon mediated neoplastic evolution. *Nucleic Acids Research*, in press.

[2] G. McCollam and R. Johnson. Correlating nitrogen application rates and sucrose yield in sugarcane. *Sensors*, submitted.