



Daniel Alhassan

PHD CANDIDATE

Department of Mathematics and Statistics Missouri University of Science and Technology

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Research Interests

Statistical Genomics |

STATISTICAL METHODS FOR DETECTING DIFFERENTIAL DNA METHYLATION REGION

Survival Analysis |

MODELING EVENT HISTORY DATA WITH A CURE FRACTION

Inter-disciplinary Research |

STATISTICAL APPLICATIONS IN HEALTH, ENGINEERING AND SOCIAL SCIENCE

Statistical Machine Learning |

METHODS THAT COMBINE CLASSICAL STATISTICAL WITH MACHINE LEARNING

Work Experience

Statistical Consultant

MISSOURI S&T ASA STUDENT CHAPTER

Rolla - MO

August 2018 -> Present

- Provide statistical data analysis guidelines to student community
- Assist students with with R, JMP, Minitab and SAS
- Help students with experimental design issues at the planning stages of project work

Instructor

MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

Rolla - MO

August 2018 -> Present

- Applied Engineering Statistics (multiple offerings)— Textbook: Applied Statistics and Probability for Engineers by Douglas Montgomery et al

Instructor

MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

Rolla - MO

2021 ->

- Introduction to Biostatistics — Textbook: Statistics for the Life Sciences by Samuels and Witmer

Graduate Teaching Assistant

MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

Rolla - MO

August 2017 -> May 2018

- Calculus I & II

Graduate Teaching Assistant

UNIVERSITY OF NEW ORLEANS

New Orleans - LA

August 2015 -> May 2016

- Calculus I, II & III

Instructor

UNIVERSITY OF NEW ORLEANS

New Orleans - LA

August 2016 -> May 2017

- Elementary Statistics & Statistics for Business and Economics

Education

Ph.D. Mathematics (Statistics Emphasis)

MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

Rolla, MO

2017 ->

- Advisors: Dr. Akim Adekpedjou & Dr. Gayla Olbricht
- GPA: 3.93

M.S. Mathematics

UNIVERSITY OF NEW ORLEANS

New Orleans

2015 -> 2017

- GPA: 3.9

- Thesis: Estimation of Beta and the Relationship Between Share Return and Beta in the Emerging Market of Ghana. (coauthored)
- Advisor: Dr. Lord Mensah

Publications

1. Alhassan, D., & Agbozo, E. (2022). *idDMR: Methylation analysis methods for illumina microarray data*. <https://github.com/DanielAlhassan/idDMR>
2. Alhassan, D., Olbricht, G., & Adekpedjou, A. (2022). *Differential methylation region detection via an array-adaptive normalized kernel-weighted model*.
3. Nam, S., Alhassan, D. A., Condon, B. D., French, A. D., & Ling, Z. (2018). Thermally induced structural transitions in cotton fiber revealed by a finite mixture model of tenacity distribution. *ACS Sustainable Chemistry & Engineering*, 6(6), 7420–7431.
4. Agbozo, E., Alhassan, D., & Spassov, K. (2018). Personal data and privacy barriers to e-government adoption, implementation and development in sub-saharan africa. *International Conference on Electronic Governance and Open Society: Challenges in Eurasia*, 82–91.

Skills

Programming Languages & Other Tools

PYTHON, R, LATEX, MARKDOWN, RMARKDOWN, GIT, RSTUDIO, EXCEL, OUTLOOK, ONENOTE, POWERPOINT, WORD

Awards and Honors

Midwestern Association of Graduate Schools (MAGS)

Missouri S&T

EXCELLENCE IN TEACHING AWARD NOMINEE

2021

- Each department nominates one graduate student for this award

Department of Mathematics & Statistics

Missouri S&T

GTA TEACHING EXCELLENCE AWARD

2020

Department of Mathematics & Statistics

Missouri S&T

GTA TEACHING EXCELLENCE AWARD

2018

Department of Mathematics

University of New Orleans

GRADUATE MATHEMATICS FACULTY AWARD

2017

Certifications

American Statistical Association

ASA

GRADUATE STATISTICIAN

2020

IBM & Coursera

Online

IBM DATA SCIENCE PROFESSIONAL CERTIFICATE

2019

DataCamp

Online

DATA SCIENTIST WITH R

2019