Eric M. Maina

CONTACT

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East Lansing, MI 48823

E-mail: mainaeri@msu.edu

TECHNICAL SKILLS

Linux/Unix system administration.
Database administration and development.
Programming/scripting languages Python, Perl ,Bash.
Web development HTML, CSS, and PHP.
High Performance Computing environment experience.
High-throughput data and s tatistical analysis knowledge.

WORK EXPERIENCE

Michigan State University 2017 — Present

Researcher

2014 — 2017

CAPS Computational Biology Laboratory

Research Scholar

Analysis of large scale genomic data in RNA-Seq and Chip-Seq, Development and Maintenance of lab databases and websites, Distributed computing and computational pipeline development, Server installation management and backup, Statistical analysis and data visualization.

Ohio State University 2012 — 2013

Visiting Scholar

Evaluating effects of coffee processing methods at the transcriptome level, Investigating effect of dietary apigenin on alternative gene splicing in human cells, Identifying genes involved in tomato fruit development using NGS , Analysis of alternative splicing and splice forms in maize.

Kencall Call center 2008 — 2009

Technical Support Agent

Broadband connectivity level one support, Data entry and storage management, Mobile and network connectivity resolution, Help desk support.

Cooperative Insurance Company of Kenya 2007 — 2007

IT support

Linux/Unix system installation and administration, Network management and configuration, Software installation and configuration.

EDUCATION

Msc Bioinformatics 2010 — 2012

University of Nairobi

Bsc Biotechnology 2003 — 2007

Jomo Kenyatta University of Agriculture and Technology

Diploma in Information Technology 2005 — 2007

Information Technology Center Jomo Kenyatta University

PAPERS

Mukundi E., Gomez-Cano F., Ouma W.Z., Grotewold E. (2017) Design of Knowledge Bases

for Plant Gene Regulatory Networks. In: Kaufmann K., Mueller-Roeber B. (eds) Plant Gene Regulatory Networks. Methods in Molecular Biology, vol 1629. Humana Press, New York, NY

A Maize Gene Regulatory Network for Phenolic Metabolism.
Yang F, Li W, Jiang N, Yu H, Morohashi K, Ouma WZ, Morales-Mantilla DE, Gomez-Cano FA, Mukundi E, Prada-Salcedo LD, Velazquez RA, Valentin J, Mejía-Guerra MK, Gray J, Doseff AI, Grotewold E.
Mol Plant. 2017

Diversity of genetic lesions characterizes new Arabidopsis flavonoid pigment mutant alleles from T-DNA collections
N Jiang, YS Lee, E Mukundi, F Gomez-Cano, L Rivero, E Grotewold
Plant Science 291, 110335