

# MSCS COLLOQUIUM:

COMPUTATIONAL TECHNIQUES  
AND TOOLS TO IMPROVE  
GENETIC TESTING IN THE CLINIC

Monday May 6, 2024 | 3:30PM

Our Speaker:  
**GETIRIA ONSONGO**

ASSOCIATE PROFESSOR AT  
MACALESTER COLLEGE



Dr. Getiria Onsongo is an Associate Professor of Computer Science at Macalester College. He also worked and continues to collaborate as a researcher and database consultant for GEMS informatics. His work focuses on developing scalable bioinformatics software. Prior to Macalester, he worked at the Minnesota Supercomputing Institute developing cutting edge bioinformatics tools for clinical diagnostics and software at the Masonic Cancer Center as a research scientist. He is currently on sabbatical working as a Bioinformatics Analyst for University of Minnesota Genomic Center. He earned a B.A from Macalester College, and MS and PhD from University of Minnesota, Twin Cities.

While technological advances have reduced the cost of genetic sequencing and we have sufficient information to study variability in populations, long analysis times are still a barrier to using genetic testing for routine diagnosis in the clinic.

In the first part of the talk, I will discuss the use of machine learning techniques to improve detection accuracy of a genetic testing tool that identifies disease causing deletions in the human genome. The second part of the talk will cover the use of cloud resources to reduce turnaround time for reporting results.



JOIN US AT 3:30PM ON MONDAY, MAY 6TH

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