Dr. Mohamed Abouhawwash is a Research Associate with the Institute for Quantitative Health Science & Engineering at MSU. The goal of his research is to build an evolutionary algorithm used for these data to reconstruct an image with less noise and minimum bias as a multi-objective optimization algorithm.

Akanga is a doctoral student in the Department of Geography, Environment, and Spatial Sciences. His research entails combining community land model (CLM), a land surface model, and remotely sensed datasets to examine past and future carbon cycle changes in Michigan’s Kalamazoo Watershed.

Butler is pursuing a PhD in the departments of Physics and Computational Science, Mathematics, & Engineering at MSU. Her research is centered on computational many-body physics. She uses machine learning techniques, coupled with the power and flexibility of cloud computing to expand the range of calculations.

Chen is a PhD Candidate in Information and Media from the Department of Advertising and Public Relations at MSU. Her research explores the use of computational social science methods and digital trace data to understand the social process of information diffusion across different media platforms.

Domagalski is a PhD Candidate in the department of Mathematics at MSU. Her research focuses on graph theory and social network analysis. She is working on a project involving backbone extraction methods of bipartite projections and weighted graphs.

Fernandez is a PhD student in the department of Computer Science & Engineering at MSU. His research focuses on the security of the Internet of Things (IoT). He plans to deploy an intelligent Cloud-based protection system for securing automated vehicles and other critical networked systems.

Gerstner is a PhD student in the department of Fisheries and Wildlife at MSU. The key objective of her research is to generate better range maps for data poor species of conservation concern in Central and South American cloud forests, regions of high biodiversity.

Gong is a second year PhD student in the Department of Fisheries and Wildlife and the Center for Systems Integration and Sustainability. Her broad research interests lie in the interdisciplinary studies on complex relationships among human behaviors, mangrove biodiversity, and land use change.

Lucas is a PhD candidate in the Department of Political Science at MSU. His research broadly centers around how armed actors fighting in civil conflicts manage their relationships with civilians. He is currently working on projects that analyze their use of propaganda and its effect on civilian attitudes.

Kong is a PhD student in the department of Accounting and Information Systems at MSU. Her interests lie in identifying current issues in public firms’ financial reporting process and proposing possible solutions for regulators. Particularly, her research involves hand-collecting and processing unstructured data to identify issues and solutions.

Dr. Jared Homola is a Postdoctoral Researcher in the Department of Fisheries and Wildlife. He earned his PhD from the University of Maine in 2018. The goal of his research is to improve understanding of the role of rapid evolution in facilitating biological invasions. He uses computationally intensive analyses of genomic sequencing data to track adaptive genetic changes occurring across space and time for wild, invasive populations.

Dr. Christopher Manusco is a postdoctoral researcher in the department of Computational Science, Mathematics, and Engineering at MSU, with a particular interest in computational biology. His research focuses on building computational, data driven models to unravel how the genome relates to health and disease.
Dr. Mahmoud Parvizi is a Postdoctoral Research Associate in the Department of Physics and Astronomy at MSU and conducts research in Computational Genomics. His research seeks to develop a cloud-based, artificial intelligence system to aid physicians in assessing the role a patient’s genes play in determining their risk for breast cancer and heart disease.

Dr. Tan received her PhD in Plant Breeding, Genetics, & Biotechnology in 2018. Her research focuses on predicting how different maize varieties perform in various environments through different scientific approaches. These approaches include more accurate and efficient phenotypic collection, estimation of genetic effect, and optimization of environmental factors.

Oritzlondono is a PhD Candidate in the Field Crop Pathology Lab at MSU led by Dr. Martin Chilvers. Her research focuses on understanding the adaption to changing environments and anthropogenic pressures in plant pathogens.

Dr. Rachel Toczydlowski is a postdoctoral researcher with Dr. Gideon Bradburd at the department of Integrative Biology at MSU. Her research centers around understanding the distribution of variation within and between species. She uses large genetic data sets to test for relationships between traits of plants and animals, the amount of genetic diversity organisms have, and how this diversity is partitioned across global scales.

Dr. Zhou is a postdoctoral researcher working with Dr. Min Chen at the Department of Computer Science, Mathematics, & Engineering at MSU. He received his PhD in Geophysics at Peking University. His research centers around imaging the Earth’s interior using earthquake data.