Duke
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Postdoctoral Associate in

Computational Approaches to Cancer Evolution

The Ryser Laboratory at Duke University (Durham, NC, USA) is looking for a highly motivated Postdoctoral Associate in the field of computational biology and cancer evolution. The position will be funded by Marc D. Ryser, PhD who holds a joint appointment between the Departments Population Health Sciences and Mathematics. The appointment is for 2 years, starting March 1, 2022, or later, and may be renewed for 1 year.

Overview. The successful applicant will use tools from mathematics, statistics, and bioinformatics to analyze and model genetic, epigenetic and imaging data from human breast and colorectal cancers. The overarching goal of the work is to elucidate the evolutionary dynamics of early carcinogenesis, and to develop evolutionary biomarkers that delineate aggressive from indolent early-stage lesions. The work will be performed in a cross-disciplinary setting, in collaboration with cancer biologists, surgeons and radiologists.

Qualifications. The successful applicant has a doctorate in computational biology, (bio)statistics, bioinformatics, applied mathematics or a related discipline. The position requires proficiency in the processing of sequencing data, statistical analysis of complex data sets, and analytic and/or simulation-based modeling of stochastic processes. The successful applicant demonstrates great attention to detail, works independently, takes initiative, has excellent written and verbal communication skills, and performs well in an interdisciplinary environment at the interface between the quantitative sciences and medicine. The successful candidate is expected to have a track record of first-author publication in peer-reviewed journals.

Application. Interested applicants should submit the following documents through this link:

- Cover letter describing research interests and career goals (2 pages or less)
- Curriculum vitae (4 pages or less)
- Copies of 1-2 relevant first-author publications
- A list containing the contact information for 3 references

Completed applications will be reviewed on an ongoing basis until the position is filled, with priority given to applications submitted prior to January 5, 2022. Questions may be directed to marc.ryser@duke.edu.

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