

**Post-doctoral position - Memorial Sloan Kettering Cancer Center Department of Epidemiology and Biostatistics**

Memorial Sloan Kettering Cancer Center

New York, New York

We are seeking a highly motivated candidate, interested in clinical trial design, for a position as a postdoctoral fellow. This position will focus on developing novel designs for adaptive clinical trials in oncology based on machine learning algorithms. Patient-level data on biomarkers and treatment responses extracted from past oncology trials will be used to train predictive algorithms for the outcomes of patients enrolled in a new study. Validated predictions will be used to implement sequential decision rules that may change the study conduct-e.g. stopping enrollment of patients from subgroups where the experimental therapy is unlikely to provide a benefit.

The successful applicant will be supervised jointly by Dr. Andrea Arfè and Dr. Mithat Gonen. The applicant will also collaborate with medical researchers in oncology.

Applicants should hold a PhD degree in biostatistics, statistics, machine learning or a related field. The successful candidate should have solid methodological training in statistics, be comfortable developing simulations, and be proficient in R. Interest or expertise in Bayesian methods and/or reinforcement learning is preferred but not required.

To apply, send a cover letter, CV, and the names of 3 references to Jovana Olaizola, [olaizolj@mskcc.org](mailto:olaizolj@mskcc.org)<mailto:olaizolj@mskcc.org>: Memorial Sloan Kettering Cancer Center, 485 Lexington Avenue, New York, NY 10017.

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Department of Epidemiology and Biostatistics

485 Lexington ave

New York, NY 10017

[arfea@mskcc.org](mailto:arfea@mskcc.org)<mailto:arfea@mskcc.org>

[www.mskcc.org](http://www.mskcc.org/)<http://www.mskcc.org/>