

Arkajyoti Bhattacharya

Post doctoral researcher

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Biostatistician at Translational Bioinformatics team, Department of Medical Oncology, UMCG

EXPERIENCE

UMCG, Groningen

7 years 2 months

Postdoctoral Researcher

May 2022 - Present

- Biostatistician at Department of Medical Oncology

Biostatistician and PhD Student

September 2016 - May 2022

AIG, Bangalore

July 2014 - August 2016

Assistant Manager

- I worked at Predictive Modeling Team of AIG as an Assistant Manager. Mainly used techniques were GLM, Time Series model, Hidden Markov Model, Decision Tree analysis, Machine Learning Algorithms like Random Forest. R, SAS and Excel were used extensively for the analysis.

EMC, Bangalore

March 2014 - July 2014

Research Scientist

IBM Zurich Research Lab, Zurich

August 2013 - November 2013

Student at Mathematics and Computational Dept.

- Two projects were done in this Internship. One on Statistical Analysis of Protein Micro-array Data and another on Regenerating Continuous Time Bayesian Network. Codes were written in Matlab, C++ and R.

Dana-Farber Cancer Institute, Boston

May 2012 - July 2012

Summer Intern

- We introduced a new method of normalizing datasets. Using MDS, Hierarchical Clustering and a few more statistical methods, we showed that our method is behaving better than all the standard methods. The testing was done on publicly available huge breast-cancer datasets collected from different places.

Dana Farber Cancer Institute, Boston

May 2011 - July 2011

Summer Intern

- Learned to use SAS, R and operating system UNIX. Work was mainly to remove noise from the official datasets taken from different hospitals and to keep the biological part of it intact using several standard methods of normalization. Coding different methods was the key part of the project.

EDUCATION

Indian Statistical Institute

January 2011 - January 2013

M.Stat, Statistics

Indian Statistical Institute

January 2008 - January 2011

B.Stat, Statistics(Hons.)

PUBLICATIONS

Factors associated with long-term antibody response after COVID-19 vaccination in patients treated with systemic

June, 2023

treatment for solid tumors

ESMO Open

Identification of a methylation panel as an alternative triage to detect CIN3+ in hrHPV-positive self-samples from the population-based cervical cancer screening programme

June 2023

Clinical Epigenetics

A Survival Tree of Advanced Melanoma Patients with Brain Metastases Treated with Immune Checkpoint Inhibitors

May 2023

Cancers

One-year data on immunogenicity and breakthrough infections in patients with solid tumors vaccinated against COVID-19 during systemic cancer treatment

February 2023

ESMO Open

MYC promotes immune-suppression in triple-negative breast cancer via inhibition of interferon signaling

November 2022

Nature Communications

Immunogenicity after second and third mRNA-1273 vaccination doses in patients receiving chemotherapy, immunotherapy, or both for solid tumours

April 2022

The Lancet Oncology

An mRNA expression-based signature for oncogene-induced replication-stress

February 2022

Oncogene

mRNA-1273 COVID-19 vaccination in patients receiving chemotherapy, immunotherapy, or chemoimmunotherapy for solid tumours: a prospective, multicentre, non-inferiority trial

November 2021

The Lancet Oncology

Robust metabolic transcriptional components in 34,494 patient-derived cancer-related samples and cell lines

September 2021

BMC Cancer and Metabolism

Overexpression of Cyclin E1 or Cdc25A leads to replication stress, mitotic aberrancies, and increased sensitivity to replication checkpoint inhibitors

October 2020

Oncogenesis

Transcriptional effects of copy number alterations in a large set of human cancers

February 2020

Nature Communications

Validation and update of a lymph node metastasis prediction model for breast cancer

May 2018

European Journal of Surgical Oncology

Improving gene function predictions using independent transcriptional components

March 2021

Nature Communications