SCIENTIA FELLOWS

Biostatistics and/or bioinformatics in precision medicine

Personalized treatment in head and neck cancer

Joint PI: Arnoldo Frigessi
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Project Description: This project aims to identify early signals for head and neck cancer, biomarkers for efficacy of treatment, prediction of prognosis of the cancer, at individual level. For cancer survivors, early prediction of the possible deterioration of the quality of life, is a further important aim. We will develop new statistical and machine learning methodologies, algorithms and computational approaches, including deep learning based strategies, exploiting one of the largest international collection of data based on clinical trials for this type of cancer, with unique longitudinal follow-up data for survivors. Heterogeneous data integration will be an important aspect. Some recent work is listed below.

Eligibility:

- A PhD degree (at the latest by 1 July 2020) in statistics, biostatistics, mathematics, computer science or other related disciplines with a documented competence in statistics, biostatistics or mathematics and advanced computational skills.
- You have not been resident in Norway for more than 12 months in the last 3 years.

Benefits: The fellow will be employed at the University of Oslo (UiO) for three years. The gross salary of a Fellow will amount to 515 200 Norwegian kroner/year (approximately 56,000 US Dollars). UiO will cover full health insurance and pay towards your pension with the Norwegian pension fund. As an employee in Norway the fellow has additional welfare benefits. UiO will also support research costs (laptop, travel, courses etc) with 54 600 NOK per year

References

1. Serafini, Mara S., et al. "Transcriptomics and Epigenomics in head and neck cancer: available repositories and molecular signatures." Cancers of the Head & Neck 5.1 (2020): 2.
2. Kristensen, V. N., Lingjærde, O. C., Russnes, H. G., Vollan, H. K. M., Frigessi, A., & Børresen-Dale, A. L. (2014). Principles and methods of integrative genomic analyses in cancer. Nature Reviews Cancer, 14(5), 299-313.