Synopsis

There is a new type of biologist today, who does research at a computer. A computational biologist solves problems in the life sciences using the tools and practices of computer science, statistics, and mathematics. This emerging field is of immense and growing importance in all areas of the life sciences, including biomedical sciences, biotechnology and environmental sciences.

NUS offers a four-year direct admissions major programme in computational biology. The course includes modules from the Faculty of Science - in Life Sciences, Mathematics and Statistics - and modules from the School of Computing. This programme is ideal for students interested in life sciences, computer science or data science, as well as quantitatively-minded life sciences students. The talk will discuss the programme structure, how it relates to other options, and career opportunities for graduates.

Speaker

Prof Greg Tucker-Kellogg

Prof Greg Tucker-Kellogg received his Bachelor of Chemistry and Biological Sciences from Carnegie-Mellon University, and his M.Phil. and Ph.D. in Molecular Biophysics and Biochemistry from Yale University. He was a Jane Coffin Childs postdoctoral fellow at Harvard Medical School. His laboratory’s research interests are in genomic regulatory dynamics and chromatin modifications, and their relationship to personalised medicines. He is a Professor in Practice at the Department of Biological Sciences, and Director of the Faculty’s Computational Biology programme.