



**Postdoctoral Associate Positions in Statistics, Optimization, Control Theory,
System Identification and Network Dynamics
Network Dynamics and Synthetic Biology Group of Andras Gyorgy
NYU Abu Dhabi**

The Network Dynamics and Synthetic Biology group at New York University Abu Dhabi seeks highly motivated and collaborative applicants to fill multiple Postdoctoral Associate positions in statistics, optimization, control theory, system identification and network dynamics. Research in the group revolves around topics at the interface of engineering (dynamical systems and control theory, network science, statistics, optimization) and synthetic biology. Projects will focus on system and parameter identification using noisy data, optimization for experiment design, analyzing/designing pattern formation over large-scale networks, and the development of novel tools for the rational design of synthetic gene circuits. Members of our interdisciplinary team will leverage experiments to inform modeling/theoretical analysis and vice versa. For more information, visit <http://netb.io/>. The initial appointment is for two years with the possibility of renewal based on performance.

The ideal candidate is self-motivated and hard-working with a PhD in engineering, statistics, optimization, physics, mathematics, computer science, or in a related field. The positions require experience with at least one of the following: statistics, stochastic systems, optimization, control theory, system identification, network science. Experience working with researchers from the life sciences is desired, but not required. Successful candidates will take part in collaborative projects involving multiple laboratories from the US and Europe. Excellent communication skills in English, ability to work in multi-disciplinary teams, and scientific creativity are essential. We seek driven and enthusiastic individuals with a proven track record of independent research whose priority is to excel in their career while maintaining healthy work-life balance.

Applications will be accepted on a rolling basis and candidates will be considered until the positions are filled. To be considered, prepare in PDF format: (1) cover letter summarizing research experience and specific interest in the position; (2) curriculum vitae including a full list of publications; and (3) the names and contact details of three references. If you have any questions, or you want to follow up on your application, please feel free to contact Andras Gyorgy at andras.gyorgy@nyu.edu.

The positions provide salary higher than internationally competitive rates for postdoctoral positions, in addition to substantial benefits (generous housing, transportation and travel allowances, educational subsidies for children), together with full health insurance and retirement contributions. The UAE does not levy income tax.

About NYUAD:

NYU Abu Dhabi offers a stimulating research environment led by a distinguished research community and supported by state-of-the-art research facilities. Our students are drawn from around the world and surpass all traditional recruitment benchmarks, both US and global. NYU Abu Dhabi's highly selective liberal arts enterprise is complemented by an institute for advanced research, sponsoring cutting-edge projects across numerous disciplines. New York University has established itself as a Global Network University, a multi-site, organically connected network encompassing three foundational degree-granting campuses (New York, Abu Dhabi, and Shanghai) and eleven research and study-away sites across five continents. Faculty and students circulate within this global network in pursuit of common research interests and the promotion of cross-cultural and interdisciplinary solutions for problems both local and global.