Rajendra Bose

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Profile

- **Professional with extensive experience building and leading teams within academic research institutions over the past fifteen years**. These teams provided high quality, specialized computing and data services and infrastructure to faculty, lab staff and students conducting research across many disciplines. Current interests include engaging with varied groups or audiences for science and technology-related education, presentations and training.
- **Highly adept at writing:** examples of papers, reports and presentations at https://rkbose.me/cv.htm
- **US Citizen**

Academic and Professional Experience

Director of Researcher Engagement, Icahn School of Medicine at Mount Sinai   Mar 2023-Jul 2024

Scientific Computing and Data

The Scientific Computing and Data group partners with scientists to accelerate scientific discovery with the overarching goal of accelerating translational research and improving clinical care. The researcher engagement role managed a team that ensured responsive support and communications, and served as a senior point of contact for researchers and staff, for selected research data services.

Principal Engineer, Scientific Computing, Chan Zuckerberg Biohub   Feb 2021-Mar 2022

Built and led the initial Scientific Computing team for this nonprofit biomedical research organization during its fifth anniversary year; the San Francisco Biohub partners are the University of California San Francisco and Berkeley, and Stanford University. Our team provided computation and research data storage infrastructure and guidance for computational microscopy, sequencing, data science and other scientific platforms and research groups at the Biohub's San Francisco and Stanford sites.

Director, Research Computing, Columbia University   Jan 2014-Dec 2020

Mortimer B. Zuckerman Mind Brain Behavior Institute

Responsible for developing and implementing research computing services and infrastructure for the Mortimer B. Zuckerman Mind Brain Behavior Institute. The Research Computing team worked with 50 faculty labs and other groups with a population of roughly 800 researchers and other staff in the Zuckerman Institute to enable and accelerate their science.

Manager, Research Computing Services, Columbia University   Aug 2009-Dec 2013

Information Technology

Responsible for developing and advancing research computing services within Columbia's central IT division. The manager role involved working closely with faculty, research and information technology staff across the university, as well as senior administrators in the Office of Research Initiatives and elsewhere. Activities included: implementing shared high performance computing and secure research data systems; defining strategies for biomedical and social science research computing; and participating in university green data center initiatives.

Digital Initiatives Manager, Columbia University   **Jan 2008-Jul 2009**
Center for Digital Research and Scholarship (CDRS)

Postdoctoral Research Fellow, University of Edinburgh   **2004-2007**
United Kingdom Digital Curation Centre and Database Group, School of Informatics

Visiting Scientist, Columbia University   **Jul-Oct 2007**
Center for International Earth Science Information Network (CIESIN)

Graduate Student Researcher, University of California   **1998-2004**
Institute for Computational Earth System Science and Bren School of Environmental Science and Management, University of California, Santa Barbara

Information Systems Consultant, Stanford University   **1992-1998**

Education

University of California, Santa Barbara

Ph.D. in Environmental Science and Management (Environmental Informatics),
Bren School of Environmental Science and Management

University of California, Berkeley

M.S. in Industrial Engineering and Operations Research

Includes applied Masters project work at **University of Nottingham, England**

Stevens Institute of Technology, Hoboken NJ

B.E. in Electrical Engineering, with Honor

Includes an academic year at **University of Dundee, Scotland** (International Scholars Program)

Includes summer study at **University of Oxford, England** (International Graduate Summer School)

Professional and Academic Activities

- Co-lead of regional New York City scientific computing and data group of over 10 institutions, 2018-2020 and 2023-2024
- National Science Foundation Panel and Committee participation, Alexandria and Arlington VA, various times from 2009-2020
- Member, Columbia University Data Science Education Working Group, 2019-2020
- Executive Committee participation as past elected Chair, national Coalition for Academic Scientific Computation (CASC), 2019, 2020
- Executive Committee participation as elected Chair for 2017, 2018, and elected Vice-Chair for 2015, 2016, national Coalition for Academic Scientific Computation (CASC)
- Organizing Committee member for and participant in CASC/UK High Performance Computing Special Interest Group (HPC-SIG) workshop, Oxford, England, July 2015: **Towards Sustainable National Research Computing Centers and a Computational Workforce**
- Chair, Intercampus Subcommittee of faculty-led research computing committee, Columbia University, 2014-15 academic year