

# Rajendra Bose

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## Profile

- **Professional with extensive experience collaborating within and across organizations to power academic research.** Activities over 15 years include chairing a national academic coalition, and building and managing teams that partnered with faculty, lab staff and students conducting research over many disciplines. These teams provided specialized computing and data services and infrastructure to support research activity.
- **Current interests** include engaging with varied groups or audiences for science and technology-related education, presentations and training, with a focus on environmental and climate science. Examples of earlier papers, reports and presentations are provided at <https://rkbose.me/cv.htm>
- **US Citizen**

## Academic and Professional Experience

### Visiting Assistant Professor, Pratt Institute

Jan 2025-present

Department of Math and Science

Teaching in-person introductory physics courses and participating in New York Climate Exchange academic partner events and activities.

### 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 partnered with scientists to accelerate scientific discovery with the overarching goal of advancing 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**

Responsible for developing and advancing research computing services, and working with the Office of Research Initiatives and faculty, research and IT staff across the university. Activities included: implementing shared high performance computing and secure research data systems; defining strategies for biomedical and social science research computing; and carrying out green data center initiatives.

**Digital Initiatives Manager, Columbia University      Jan 2008-Jul 2009**

Center for Digital Research and Scholarship (CDRS)

**Visiting Scientist, Columbia University      Jul-Oct 2007**

Center for International Earth Science Information Network (CIESIN)

**Postdoctoral Research Fellow, University of Edinburgh      2004-2007**

United Kingdom Digital Curation Centre and Database Group, School of Informatics

**Education****University of California, Santa Barbara**

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

Included research work at the **Institute for Computational Earth System Science**

**University of California, Berkeley**

M.S. in Industrial Engineering and Operations Research

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

**Stevens Institute of Technology, Hoboken NJ**

B.E. in Electrical Engineering, with Honor

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

Included 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
- Executive Committee member as **elected Chair** for 2017, 2018, **elected Vice-Chair** for 2015, 2016, and **past Chair** for 2019, 2020, national Coalition for Academic Scientific Computation (CASC)
- 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
- 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