

Mission

Founded in July 2015, the mission of the Brown Center for Biomedical Informatics (BCBI) is to:

- **Innovate** how data, computing, and technology are used in biomedicine and health care;
- **Implement** digital solutions for improving biomedical discovery and healthcare delivery;
- **Impact** health and health care through data- and technology-driven solutions; and,
- **Inspire** the next generation of biomedical researchers, healthcare providers, and consumers in partnership with collaborators in existing areas of excellence at Brown University, its healthcare affiliates, academic and healthcare organizations across Rhode Island, and beyond.

People

BCBI's growing community includes:

- 4 Faculty and 5 Staff
- 4 Postdoctoral Fellows/Associates
- 2 MD/PhD and 12 PhD Students
- 25 Medical Students
- 17 Undergraduate Students

Research

Clinical Informatics Innovation and Implementation (CI³) Lab

PI: [Liz Chen, PhD, FACMI](#)

Leveraging Electronic Health Record (EHR) technology and data to improve healthcare delivery and biomedical discovery

Biomedical Artificial Intelligence Lab

PI: [Carsten Eickhoff, PhD](#)

Machine learning, natural language processing, and information retrieval in the health domain

Clinical and Global Health Informatics Evaluation Lab

PI: [Hamish Fraser, MBChB, MS, FACMI, FIAHSI](#)

Informatics with a focus on clinical decision support, evaluation, and global health

Precision and Population Medicine Informatics (P²MI) Lab

PI: [Neil Sarkar, PhD, MLIS, FACMI](#)

Methodology development and application to study underpinnings of complex disease, healthcare delivery and public health reform, and health equity

Education

Programs

- Scholarly Concentration in Biomedical Informatics (*for medical students since 2015*)
- MD/PhD and PhD Program in Computational Biology – Biomedical Informatics Track (*joint with CCMB since 2017*)
- Undergraduate Biology ScB Track in Biomedical Informatics (*since 2020*)

Courses

- BIOL1555/PHP2561 Methods in Informatics and Data Science for Health
- BIOL1565 Survey of Biomedical Informatics
- BIOL1575/2075 Evaluation of Health Information Systems
- BIOL1595/2595 Artificial Intelligence in Biomedicine
- BIOL6535 Informatics and Data Science for Doctors
- BIOL6683 Introduction to the EHR
- 5x5 Health Informatics Short Course

Guest Lectures & Mentorship

- BIOL3656 IMS-I Health Systems Science
- PC-PM Health Systems Science IV
- PHP0310 Health Care in the US
- AI in Medicine Student Interest Group
- Gateways to Medicine, Health Care, and Research Program
- PhD Programs: Computer Science, Health Services, Policy, and Practice, etc.

Service



Advance Rhode Island
Clinical & Translational Research
Cite: U54GM115677

Biomedical Informatics, Bioinformatics, and Cyberinfrastructure Enhancement Core
Director: Chen | Co-Director: Sarkar | Contributors: Eickhoff & Fraser



BROWN
Cancer Center

Population Science Program
Co-Leader: Sarkar



OpenMRS
MEDICAL RECORD SYSTEM
Development and Evaluation
Co-Founder: Fraser



frontiers
in Public Health

Associate Editor for
Digital Public Health: Eickhoff

PLOS DIGITAL HEALTH

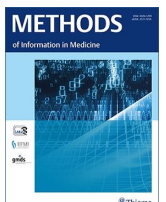
Global Health Informatics
Section Editor: Fraser



INFORMATICS PROFESSIONALS. LEADING THE WAY.
Treasurer: Sarkar



Editor-in-Chief:
Sarkar



Associate Editor:
Chen

Community Resources & Collaborations

