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.

Research

<table>
<thead>
<tr>
<th>Clinical Informatics Innovation and Implementation (C13) Lab</th>
<th>Biomedical Artificial Intelligence Lab</th>
<th>Clinical and Global Health Informatics Evaluation Lab</th>
<th>Precision and Population Medicine Informatics (P2MI) Lab</th>
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</thead>
<tbody>
<tr>
<td>PI: Liz Chen, PhD, FACMI</td>
<td>PI: Carsten Eickhoff, PhD</td>
<td>PI: Hamish Fraser, MBChB, MS, FACMI, FIAHSI</td>
<td>PI: Neil Sarkar, PhD, MLIS, FACMI</td>
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<tr>
<td>Leveraging Electronic Health Record (EHR) technology and data to improve healthcare delivery and biomedical discovery</td>
<td>Machine learning, natural language processing, and information retrieval in the health domain</td>
<td>Informatics with a focus on clinical decision support, evaluation, and global health</td>
<td>Methodology development and application to study underpinnings of complex disease, healthcare delivery and public health reform, and health equity</td>
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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

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

Population Science Program
- Co-Leader: Sarkar

Associate Editor for Digital Public Health
- Editor-in-Chief: Sarkar
- Associate Editor: Chen

Community Resources & Collaborations

BCBI Seminars and Journal Clubs

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