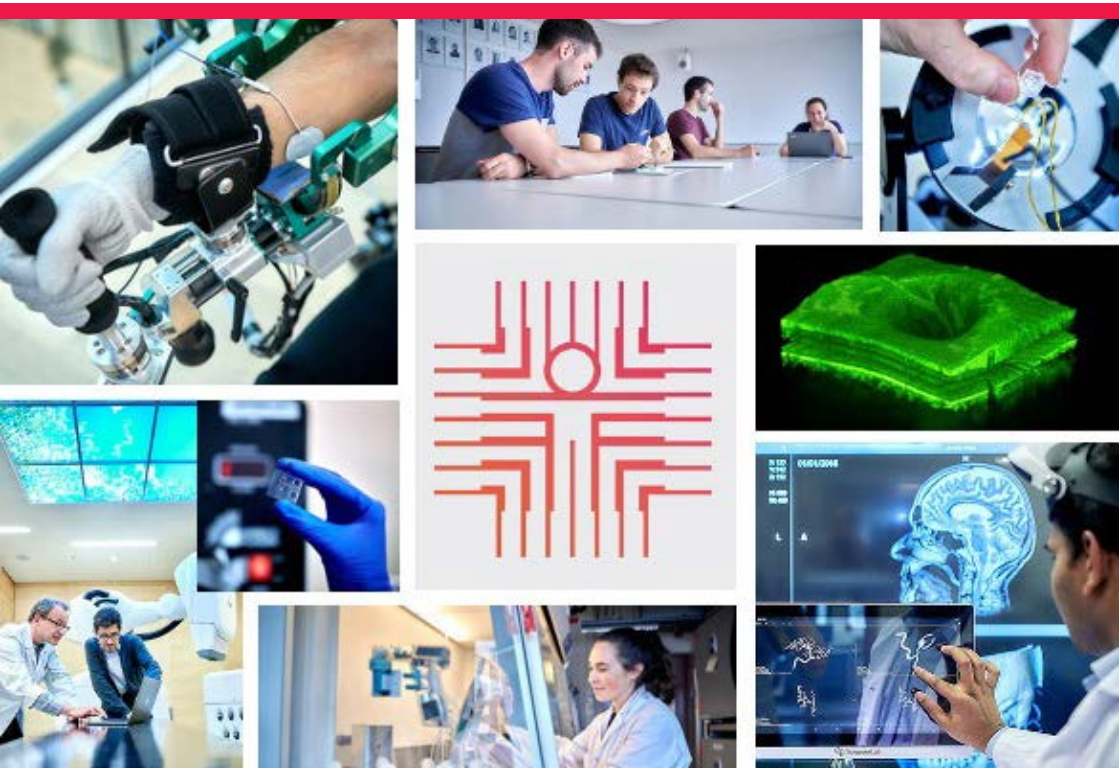
UNIVERSITÄT
BERN

Center for Artificial Intelligence in Medicine (CAIM)



INSELGRUPPE siteminsel UNIVERSITÄRE PSYCHIATRISCHE DIENSTE BERN

Who we are

«At CAIM we use Artificial Intelligence to facilitate the work of doctors and nurses and to deliver better care to patients. Through our expertise in engineering, medicine and life sciences and with low-threshold access to clinical data and research grants for AI in Medicine we support competitive, collaborative, bottom-up projects, cooperation with industry and start-up incubation.»
Raphael Sznitman, Director CAIM

EDUCATION

DISSEMINATION

INFRASTRUCTURE

RESEARCH FUND

ETHICS

CAIM activities

Pillar 1

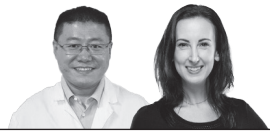
Digitalization and AI & Education
CAIM provides tailored AI in Medicine education for medical doctors and engineers through a portfolio of competitive and purposefully designed programs.
› Stavroula Mougikakou
ARTORG Center, University of Bern
› Roland Wiest
Inselspital, Bern University Hospital

Pillar 2

Network & Dissemination
CAIM transmits trustworthy knowldege on AI in Medicine. This supports policy makers, educators and the general public by shaping current debates.
› Mauricio Reyes
ARTORG Center, University of Bern

Pillar 3

Computational Infrastructure
CAIM facilitates access and availability to computer infrastructure, computational and data resources to support advanced digitalization and AI research.
› Alexander Leichtle
Inselspital, Bern University Hospital



Pillar 4

Research Fund
CAIM promotes technological innovation by funding projects with strong clinical breakthrough potential and a realistic pathway towards patient benefit.
› Kuangyu Shi
Inselspital, Bern University Hospital
› Inti Zlobec
Insitute of Pathology, University of Bern

Embedded Ethics Lab

AI raises ethical questions. CAIM´s Ethics Lab provides ethics support for research, education and interaction with clinical and industry partners.
› Claus Beisbart, Institute of Philosophy, University of Bern
› Fritz Sager, Center for Public Management, University of Bern
› Martino Mona, Faculty of Law, University of Bern
› Rouven Porz, Inselspital, Bern University Hospital

What we do

Research
CAIM explores the potential of AI technologies for:

Biosignals →

Medical Imaging →

Precision Medicine ←

Health Monitoring ←

→ Health Data

Robotics →

Services
CAIM enhances the capabilities of partners through the following services:

- Consultancy
- Talent Recruitment
- Rapid Validation
- Secondments
- Research Collaboration
- Clinical Translation
- Computational Resources
- Optimized IP Pipeline

Education
Targeted educational programs and courses of the University of Bern provide AI researchers and clinicians with cutting-edge know-how and qualifications:

Master's programs in
› AI in Medicine
› Bioinformatics & Computational Biology
› Biomedical Engineering

Certificates of Advanced Studies (CAS) in
› Medical Imaging
› Applied Data Science
› Advanced Machine Learning
› Biomedical Entrepreneurship

New ventures

CAIM provides support for entrepreneurial activities like commercialization through new venture formation, leadership coaching and access to commercial partners and investors, like the Bern Biomedical Engineering Network.

Our successful start-ups have launched products in ophthalmology, interventional liver cancer treatments and surgical robotics.

Join our network

› CAIM brings together expertise from academia in the technical, clinical, legal and ethics domains to support the development and launch of disruptive AI approaches into clinical care.

› CAIM has the most current awareness and perspectives on existing and arising challenges for stakeholders in policy, national research strategy and society.

› CAIM supports entrepreneurial translation efforts through access to regulatory guidance, clinical validation and investor networks.

› CAIM is an initiative of the University of Bern and the Inselspital, Bern University Hospital, partnered by the University Psychiatry Services and the Swiss Institute for Translational and Entrepreneurial Medicine, sitem-insel.

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