CENTER FOR ARTIFICIAL INTELLIGENCE IN MEDICINE

Summer & Fall 2021

Great that you have the second CAIM Update on your screen! Read here what happened in and around our center over the summer and fall.

▦_About

CAIM joins ACAIM and CLAIRE (June 2021)

This summer, CAIM has joined both an American and a European Network of Artificial Intelligence research institutions with the intention of streamlining efforts needed to translate AI technologies into clinical care.

> Alliance of Centers of Artificial Intelligence in Medicine (ACAIM)
>
> Confederation of Laboratories for Artificial Intelligence Research in Europe (CLAIRE)

Research Project Fund: First Call (September 2021)

The CAIM research fund closed its first call with 20 project applications covering very diverse medical disciplines of the Inselspital and a wealth of University of Bern research areas. Projects will be reviewed by a consortium of national and international reviewers. Funding decisions for a duration of two years will be made at the turn of the year.

> CAIM Research Project Fund / Research Areas @CAIM

> *In depth:* Discover our Center at caim.unibe.ch/about_us

> **"Unmet Clinical Needs Drive our Research"**
> Our director in an interview for healthbook TIMES Oncology Hematology, July 2021

▦_Research

Here is a selection of research papers from the Bern Medical Hub this summer and fall:

ENT: AI improves speech quality for hearing aid users   read the study

        Bayesian Brain for tinnitus   read the study

Food: AI meets Nutrition / User preferences of nutrition apps   read the study

Pathology: Deep Learning predicts subtypes in colorectal cancer   read the study

Radiotherapy: Advancing AI image interpretation for clinical use   read the study

Pneumology: Pulmonary fibrosis: Reliable prognosis thanks to AI   read the study

Physiology: Neuromorphic Deep Learning with first spike times   read the study

> *In depth:* Find all CAIM research news at caim.unibe.ch/news

✳_Education

Master program AI in Medicine started (September 2021)

The MSc program "Artificial Intelligence in Medicine" has commenced this fall semester with students from Europe and Asia. The first semester covers the modules Artificial Intelligence (introductions to AI & Machine Learning), Medicine (Basic Physiology & Introduction to Clinics) and Applications (Computer Vision & Signal Processing) as well as individual electives.

MSc AIM Website / Flyer

In depth: All educational offers at caim.unibe.ch/education

✳_Featured

Interview with **Claudio Bassetti**, Dean of the Medical Faculty, University of Bern.

Researcher Video of **Kuangyu Shi**, Department of Nuclear Medicine, Inselspital.

Podcast with **Roland Wiest**, Neuroradiology Inselspital by the AMBOSS platform for physicians: "AI in Medicine – What Doctors need to know."

Interview **Tobias Nef**, ARTORG Center, University of Bern, and **Nicola Biller-Andorno**, ETH Zurich, on opportunities and limits of ambient sensors for independent living in old age.

Startups: **PeriVision – preventing Blindness caused by Glaucoma** (video).

In depth: Meet our researchers and AI in Medicine experts at caim.unibe.ch/people

✳_Events

CAIM @AI Expo Africa (September 2021)

Our center participated as exhibitor at the AI Expo Africa 2021 with a three-day program focused on CAIM's vision, its research activities, and its educational offers. Our board members presented their respective specialties and were available for participant questions.

Program Overview CAIM / AI Expo Recordings

NeuroTec Research Facility opens (September 2021)

The Insel Gruppe, with the University of Bern and sitem-insel has inaugurated NeuroTec. Specialized in translational research, NeuroTec explores novel, flexible and cost-efficient technologies to improve diagnostics, monitoring and therapies of neurological disorders.

Media release Insel Gruppe / NeuroTec website

CAIM starts Ethics Talks 2021/22 (October 2021)

The CAIM Embedded Ethics Lab has launched a series of virtual talks on ethical challenges in AI in healthcare research for the Bern Medical Hub this fall semester.

Ethics Talks Overview / CAIM Ethics Lab

In depth: All CAIM-related events at caim.unibe.ch/events

Stay tuned!

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