



CAIM

CENTER FOR ARTIFICIAL INTELLIGENCE IN MEDICINE

Fall & Winter 2022

Happy New Year! May it be full of surprises, successes, and innovation for you! To get you started, catch up on news from our center and research, “meet” our researchers in interviews and note two upcoming events for March in your calendars!

_About

FDA Approval for Bernese AI Technology (September 2022)

2022 saw two FDA approvals of AI products developed around the ARTORG Center for Biomedical Engineering Research: The medical and image data management platform for ophthalmology Discovery by RetinAI and an AI system for brain tumor segmentation from multisequence MRI (today at Neosoma). These important contributions to MedTech and healthcare innovation on a global scale exemplify Bern's traction for bringing digital technologies directly to the patient.

[Media release RetinAI](#) / [Media release Neosoma](#)

Feeling the public's pulse at Researchers' Night (September 2022)

At the University of Bern Researchers Night, the CAIM Ethics Lab conducted a non-representative survey on AI. There was neither unilateral euphoria towards applications of artificial intelligence in medicine nor unrestrained fears. Rather, an analysis of the feedback shows that, depending on the perspective, a 'risk' can also present itself as an 'opportunity'.

[Interpretation of the Ethics Lab survey](#)

Great interest in CAIM Research Symposium (November 2022)

The first Research Symposium of the CAIM since its official opening in March 2021 was attended by more than 100 researchers from the Bernese ecosystem around the University and University Hospital. The Symposium also marked the first granting of the CAIM Research Awards presented to two young researchers with very translational projects.

[Program](#) & [Impressions CAIM Symposium](#) / [CAIM Research Awards call](#)

Further reading: [AI – Friend and helper of doctors?](#) (FMH media release)

_Education

Master AI in Medicine: Registration 2023/24 open (January 2023)

As of January, the master's program Artificial Intelligence in Medicine is accepting applications for 2023/24. Students can qualify for registration via interviews from a minimum grade of 4.5. For the first students, a pool of interesting multidisciplinary AI-related Master thesis project is currently being assembled. Topics can be suggested to stavroula.mougiakakou@unibe.ch.

[MSc AIM website](#) / Testimonials: [Yanis](#) & [Vinzenz](#)

_Research

Here is a non-exhaustive selection of recent Bern Medical Hub research papers:

Gerontechnology:	Early detection of diseases from home	read the study
Hematology:	Averting severe embolisms through AI	read the study
Laboratory Medicine:	Making the most out of lab data	read the study
Medical Imaging:	Using Interpretability to improve medical AI	read the study
Neuroradiology:	DL detects neurodegeneration at micrometer	read the study
Neuroradiology:	LUMIERE dataset for glioblastoma released	read the study
Nuclear Medicine:	Less Radiation with AI-enhanced PET	read the study
Nutrition:	Mediterranean diet adherence via smartphone	read the study
Obstetrics:	AI-assisted interpretation in cardiotocography	read the review

_Featured

Interview [Prof. Dr. Stavroula Mougiakakou](#) for uniFOKUS.

Interview [Prof. Dr. med. Andreas Raabe](#), Medtech in neurosurgery.

Interview [Prof. Dr. med. Hugo Saner](#), digital health thought leader.

Researcher Portrait [Prof. Dr. Athina Tzovara](#), Ass. Prof. Machine Learning in Medicine.

Media report: [Artificial Intelligence Entering Nutritional Advice](#) (Switzerland Global Enterprise).

CAIM Young Researcher Award winners:

[Charlotte Kern](#), Clinical Pharmacology / [Amith Kamath](#), MIA, ARTORG Center.

_Events

Save the Date!

AI MedTech Founders (8 March 2023)

On the occasion of International Women's Day, the initiative Diversity for AI in Medicine (DAIM) will host an event dedicated to young researchers with an entrepreneurial spirit. This networking and insights event features four Medtech Founders and offers hands-on advice on how to be supported at the Bern medical hub.

Program: https://www.caim.unibe.ch/daim_medtechfounders

Bern Interpretable AI Symposium "BIAS" (24 March 2023)

The BIAS Symposium is a one-day meeting aiming to bring researchers together in the medical image interpretable AI community. The objective is to attempt to "open the black box", share insights into challenges and breakthroughs in this field and to foster better interaction with each other.

Program: <https://www.caim.unibe.ch/bias2023>

Stay tuned!

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