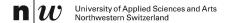
## **Msc in Medical Informatics**

Educating the Shapers of Tomorrow's Healthcare

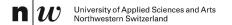






# Are you interested in implementing **smart algorithms** to **prognose illnesses**?







# Are you interested in working with healthcare professionals and to bridge between medicine & informatics?





# Are you ready to leverage **AI** to uncover the next **pharmaceutical breakthrough**?





Are you **looking for a career** in the healthcare industry in the Basel area?





#### The Team



**Uri Nahum**Dean



Hans-Friedrich Witschel Deputy Dean



Julia Rausenberger





**Veronica Rosati** Study admin



**Isabel del Rio** Study support



We live the Healthcare industry!!





































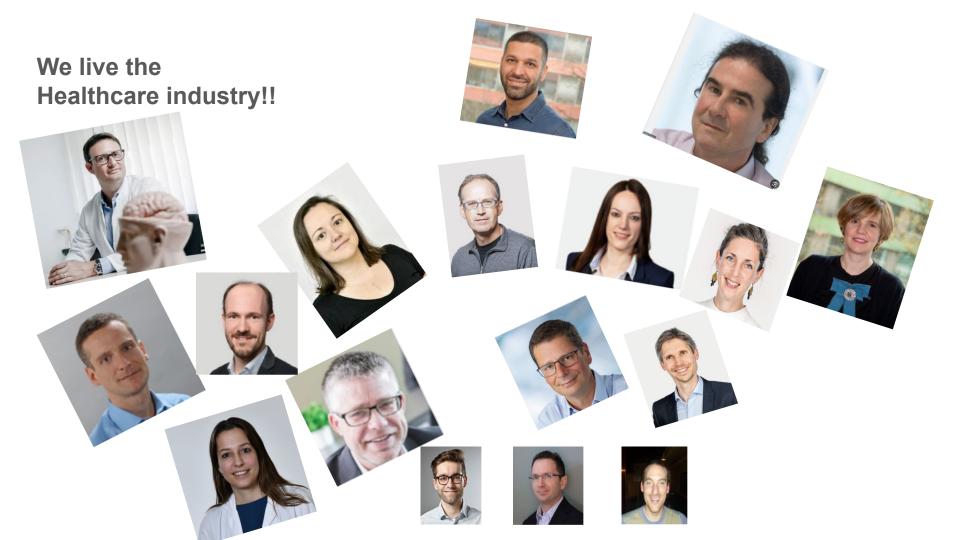
















# 

"Topics very interesting and project was very informative and interesting, especially the connection to the industry."
"The lecturer and her team are great, and able to give good insights."
"I really enjoyed this course, as this topic is of high interest for me. The teaching style is entertaining and easy to follow and understand".
"Great module, keep it going!"
"The module i liked & LEARNED the most in this semester".
"At first the seminar work and an exam seemed too much for a 3 credit module but by the end, it all seemed totally worth it. This has been by far the best, most interesting 3 credit module."
Great Module with great teacher!
Very good lecture. Both lecturers were eager to support students, answered questions clearly and in general pleasant.

## We live the industry!!











Kantonsspital Aarau



















emovocare





# Our connection with the industry



#### University Children's Hospital Basel

4.257 followers

Das University Children's Hospital Basel setzt auf die Chancen, die sich mit der digitalen Transformation ergeben. Wir sehen schon heute, wie intelligenten Datenanalysen und maschinelles Lernen die Gesundheitsversorgung von Kindern und Jugendlichen verbessern kann. Daher freuen wir uns auf viele interessierte Studierende – und noch mehr auf künftige Absolvent\*innen dieses wegweisenden Studiengangs!

2d •••

Info Master of Science in Medical Informatics



## The extra mile for each student!



# «Diese Tools sind nicht die Zukunft, sondern die Gegenwart»

Zwei Tierärztinnen wagen sich ans Programmieren und an Big Data: Berenice Bönhof und Sarah Rebecca Meyer absolvieren einen Masterstudiengang in Medizininformatik.





## The extra mile for each student!

MONDAY							
	• 11:00 AM						
	Hi Uri,						
	First of all I wish you happy holidays and a good start into the new year! I wanted to let you know that I signed the contract with Roche and will start in February! :) thanks again for all						
	your help to getting this opportunity.						
	Best,						
	TODAY						
20	Uri Nahum • 8:39 AM						
	Dear . ,  Congratulations on your new role at Roche! I'm thrilled						
	to hear about your success and glad to have been part						
	of your journey. Keep up the great work, and let me						
	know if you need my support in the future.						
	Uri						



# Our Campus



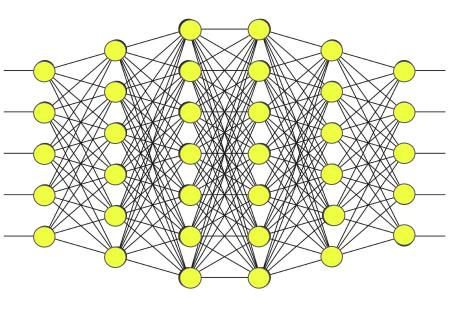








#### Contribute to all innovations!



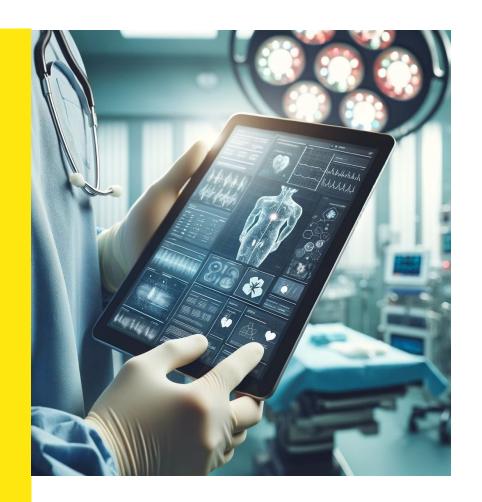


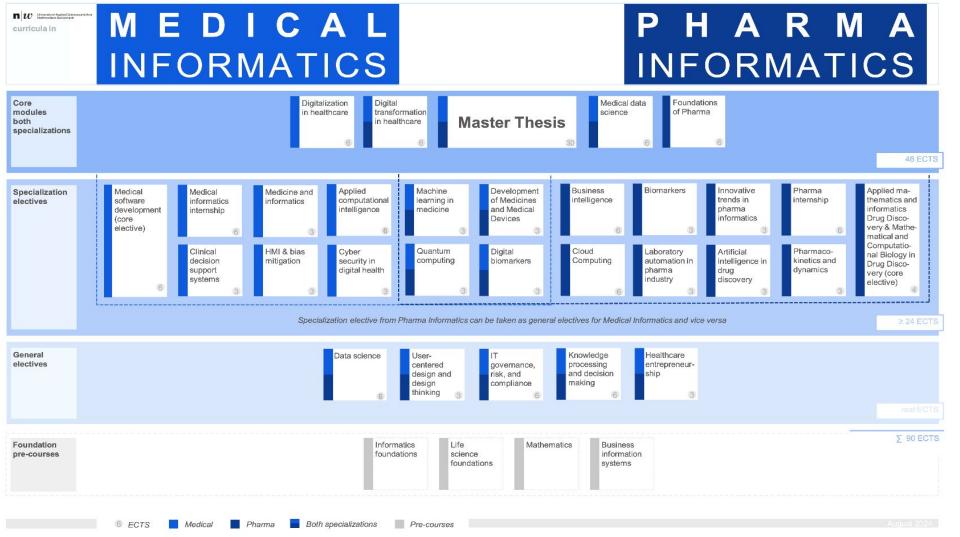
## **Medical Informatics**



**Pharma Informatics** 

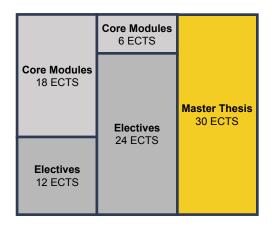
# **The Program**

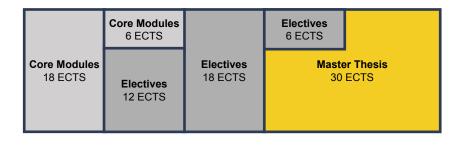






## Master in Medical Informatics







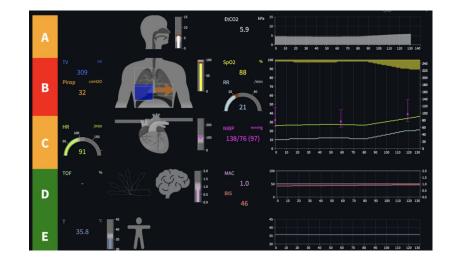
Medical software development





Clinical Decision Support systems

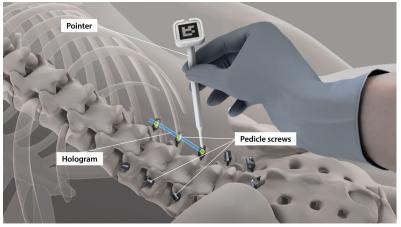






Medicine and Informatics







Mathematics and informatics in drug discovery





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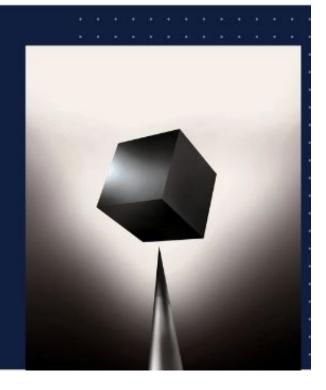
ARTIFICIAL INTELLIGENCE

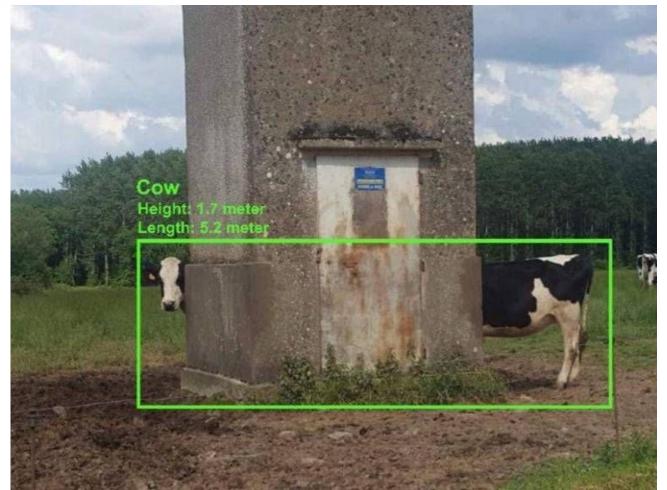
#### The Dark Secret at the Heart of Al

No one really knows how the most advanced algorithms do what they do. That could be a problem.

By Will Knight

April 11, 2017







# Autumn Semester (more or less)

	8:30 – 12:15		1	.3:30 – 17:15
Monday				
Tuesday				
Wednesday	Digital Transformation in Healthcare		N	Medical Data Science
Thursday				Digitalization of Business Processes in HC / Pharma Foundations
Friday		Info	nematics ormatics i p Discove	n
Saturday				



# Autumn Semester (more or less)

	8:30 – 12:15		13:30 – 17:15	
Monday	Digital Biomarkers		Development of Medicines & Medical Devices / Pharmacokinetics and Pharmacodynamics	
Tuesday	Data Science / Innovative Trends in Med Informatics		Business Intelligence	
Wednesday	Digital Transformation in Healthcare		Medical Data Science	
Thursday	Machine Learning in Medicine / Applied Quantum Computing		Digitalization of Business Processes in HC / Pharma Foundations	
Friday		Mathemat Information Drug Disco	cs in	
Saturday				



# Spring Semester (more or less)

	8:30 – 12:15			13:30 – 17:15	
Monday	Genetic Biomarker			Laboratory automation in the pharmaceutical industry	
Tuesday	Artificial Intelligence in Drug Discovery			Healthcare Entrepreneurship / Medicine and Informatics	
Wednesday	Cyber Security in Health / HMI & Bias Mitigation			Medical Software Development	
Thursday	Cloud Computing				
Friday	Computation Biology in Dr Discovery			<b>Drug</b>	
Saturday					



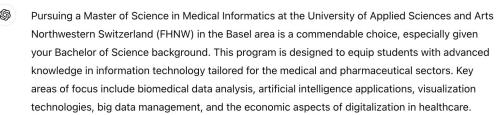
ChatGPT 40 V

I have a B.Sc. degree and I am considering to do the master of Medical Informatics in the FHNW in the Basel area, Is it a good choice?



ChatGPT 4o ~

I have a B.Sc. degree and I am considering to do the master of Medical Informatics in the FHNW in the Basel area, Is it a good choice?



FHNW

#### **Program Highlights:**

- Specializations: The program offers two specializations:
  - Medical Informatics: Emphasizes the impact of digitalization on drug development, hospital processes, and the broader health sector, with a significant focus on personalized medicine.
  - Pharma Informatics: Leverages Basel's status as a global hub for pharmaceutical innovation, concentrating on artificial intelligence's role in drug discovery and development.
- Practical Experience: The curriculum includes numerous internships, allowing students to analyze health data and develop softway olutions for hospitals and the pharmaceutical industry. Leading healthcare providers actively participate in the program, offering seminars

Designed for BSc graduates in Medical Informatics, as well as related disciplines such as Computer Science/Informatics, Master of Medicine, Pharmaceutical Sciences, Life Sciences, or similar fields that meets the programming/medicine knowledge requirements.

#### Admission:

Highly qualified graduates are admitted to the master's programme if they:

- have acquired a Bachelor's degree in a relevant field with a grade of A, B, or ≥ 4.8 (≥ "good"),
- or possess an equivalent educational background and professional experience (college or university degree),
- and have successfully passed the interview,
- and demonstrate a very good command of the English language.

Pre-master's courses are available for reflecting the required prior knowledge. Completion of these courses may be declared by the Admissions Committee as a prerequisite for starting the programme. These courses begin before the semester starts and are free of charge.



### I am interested! What's next?

You have to submit the Following:

- Copy of ID card / pass
- Letter of Motivation
- Bachelor's degree
- CV
- Copies of certificates
- English certificate





## I am interested! What's next?

- Admission fees: 200 CHF
- Semester
   CHF 750.- per semester (Swiss, Liechtenstein), CHF 1000. (EU), otherwise CHF 5000.-
- 100 CHF materials and licences.

Master in
Medical/Pharma
Informatics

the doorway to your

Future

