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Artificial Intelligence for Reinventing European Healthcare

1 - 12 July 2019

European Scientific Institute, Archamps,
France (Greater Geneva)



Medtronic



The problem...

However they are organized, **health-care systems worldwide are facing similar challenges** : increasing costs, ageing populations suffering from chronic disease and comorbidity, health professionals on the verge of burn-outs, institutionalized operational inefficiencies ...

With its as yet unfulfilled promise to revolutionize the healthcare economy and save billions of euros in the process, A.I. is exploding in popularity. The growth of the global A.I. health market is expected to reach US\$6.6 billion by 2021.

Can A.I. truly live up to expectations ?



Philippe Sabatier,
UNIVERSITÉ GRENOBLE-ALPES,
School coordinator

“ A.I. for Health: Hype Or Hope?”

The short answer is “both”

- ➔ Since the birth of A.I. in 1956, the hype has far exceeded real achievements.
- ➔ But A.I. has continued to develop new and successful technologies and hopes are once again high, building on:
 - Advances in machine learning algorithms
 - Growth of computer power
 - Big Data collection
 - Rise of the Internet of Things
 - Social Networks
 - Digital life styles
 - Availability of Capital
- ➔ Despite their rapidly expanding experience, A.I. focused companies still face significant challenges particularly in a highly-regulated field such as health care.



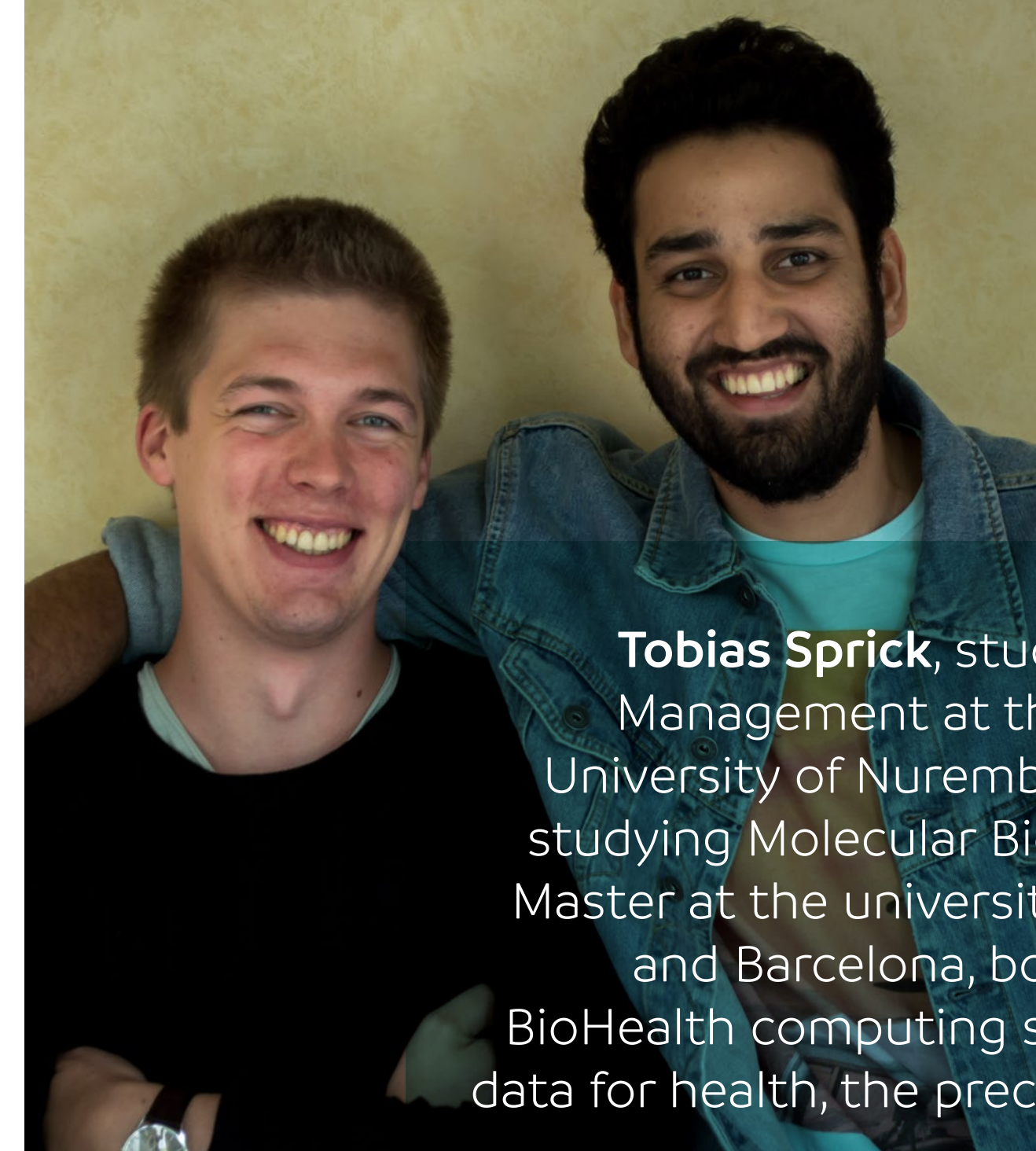
The solution...

→ YOU !

... the upcoming generation of highly trained medical doctors and pharmacists, life and computer scientists, bio-engineers and biotechnologists, entrepreneurs and regulators

- accustomed to working in a pluridisciplinary and international environment
- at ease with a “big data ” approach to health and care
- rooted in an ever-evolving digital environment

The A.I. for Health summer school offers a unique and transformational opportunity to broaden skills-sets in a range of fields including advanced research strategies, innovation & sustainable business planning, ethics and regulatory affairs.



Tobias Sprick, studying Medical Process Management at the Friedrich Alexander University of Nuremberg, and **Aditya Sethi**, studying Molecular Biotechnology in a joint Master at the universities of Grenoble-Alpes and Barcelona, both participated in the BioHealth computing summer school on Big data for health, the precursor of A.I. for Health

“ The best opportunity I’ve had so far to widen my knowledge in big data usage ”

“ The school provided me with the tools to integrate my knowledge in basic science into innovation and business ideas ”

The team...



A group of expert speakers and tutors drawn from a rich international ecosystem of academia, research and industry

Karolos Potamianos
(CERN, Geneva)

Dmitry Grishenkov
(KTH, Stockholm)

Mário J. Gaspar da Silva
(UL Tecnico, Lisboa)

Claudio C. Cruz
(UB, Barcelona)

Gerard Sou
(Sorbonne Université, Paris)

Kavé Salamatian
(USMB, Chambéry)

David Manset
(Be-Studys, Geneva)

David Pérez del Rey
(UPM, Madrid)

Damien Marechal
(Beckton Dickinson, Grenoble)

Gregory Vernier
(Medicalps, Grenoble)

Andreas Maier
FAU Erlangen-Nuremburg

Basile Gorin
(Medtronic, Paris)

Fabienne Bornard
(Université Grenoble-Alpes)

Patrick Ruch
(HES-SO, Geneva)



The programme...

The A.I. for Health summer school is an accelerated-learning programme proposed by EIT Health partner institutions and the European Scientific Institute.

Deep learning session

Breakout sessions on advanced applications

including decision support, robotics, text mining, image recognition, ethics, laws, regulation, etc.

Workshop, lab and computer practicals

Multidisciplinary and design thinking group-work on innovation projects

Project pitches to a panel of experts from industry, academia, start-ups and business incubators.

You will come out the other end armed with a comprehensive toolkit for implementing A.I. innovation in healthcare.



Your profile

- ➔ You are a Master or PhD student in medical or life science, biotechnology, engineering, data science, business, human and social science.

The success of the school depends on the quality of the participants. Over and above your specialist skills, you will bring the following qualities :

OPEN AND CRITICAL THINKING

A closed mind is the antithesis of innovation

CAPACITY FOR CALCULATED RISK

seizing new opportunities is inseparable from taking risks

FOCUS ON COMMUNITY

individual ideas become breakthrough innovations thanks to a great team



Curiosity
never killed the cat
(ask Schrödinger !)

Success =
preparation
+ opportunity.



The team is
more important
than the idea.





A.I. FOR HEALTH

bioHealth Computing School

Join us to build a smarter and healthier society

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Deadline for applications: 15 May 2019

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