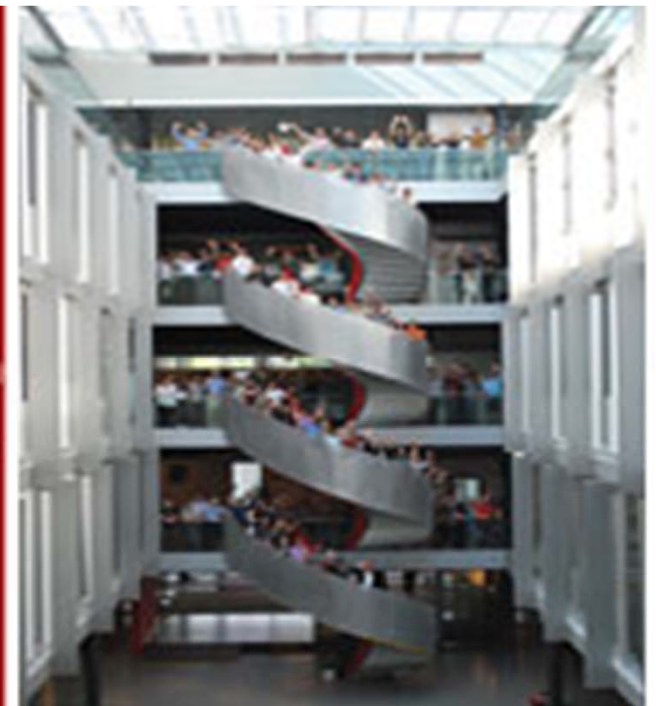


PhD in Computer & Communication Sciences at EPFL

phd.epfl.ch/edic
edic@epfl.ch



Did you know?



EPFL is the world's most
international campus
129 nationalities on campus
As ranked by Times of Higher Education (2015)

EPFL at a Glance



9000 Students (of which 2000 PhD)
350 Professors / 900 instructors
3294 Employees

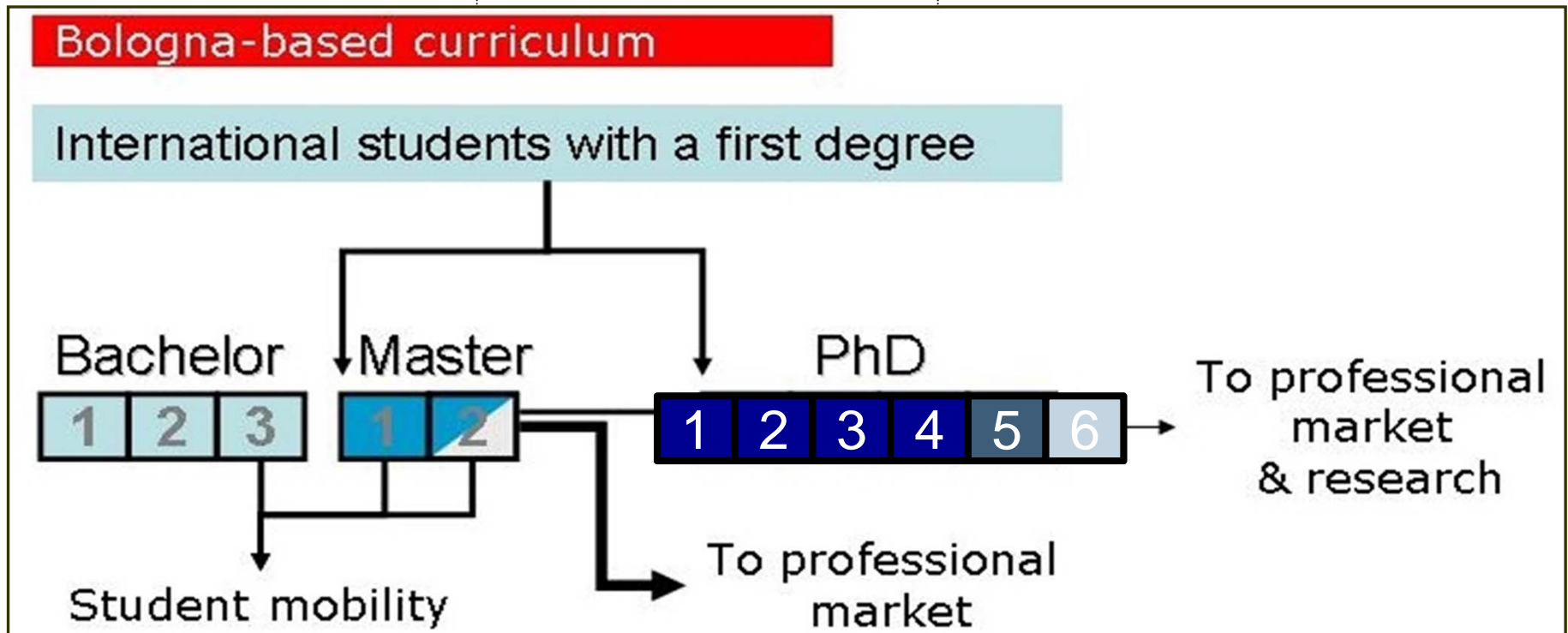
50% of faculty from abroad

40% foreign students

BS program in French, *MS and PhD programs
in English*

Curriculum

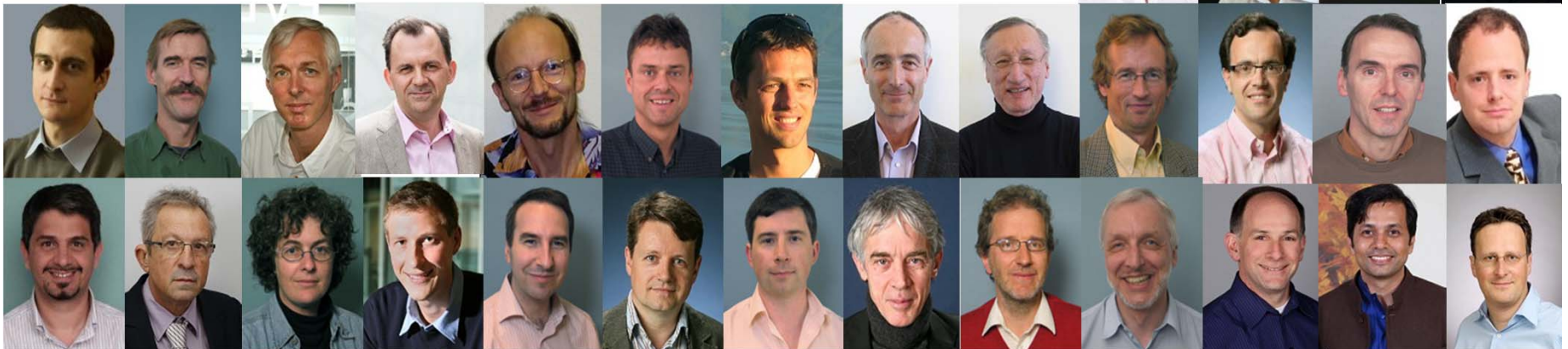
| Undergraduate | Graduate | Postgraduate |
|---------------|---|---|
| Bachelor (BS) | Master (MS) Doctoral Studies (PhD) | Executive Master (EM) Master of Advanced Studies (MAS) Continuing Education |



Computer & Communication Sciences: Who we are

40 faculty

- **From peer schools**
(e.g., Berkeley, CMU, Cornell, MIT, Stanford, ...)
- **Internationally recognized**
(e.g., Turing Award, US National Academies, ACM/IEEE Fellows)
- **Strong industrial liaison**
- **Covers theory to IoT & Cloud**



Additions to our faculty



Bryan Ford
Security
PhD, MIT



Wenzel Jakob
Graphics
PhD, Cornell

Christos Kozyrakis
Systems
PhD, Berkeley



Michael Kapralov
Theory
PhD, Stanford



Program in a Nutshell

Stats:

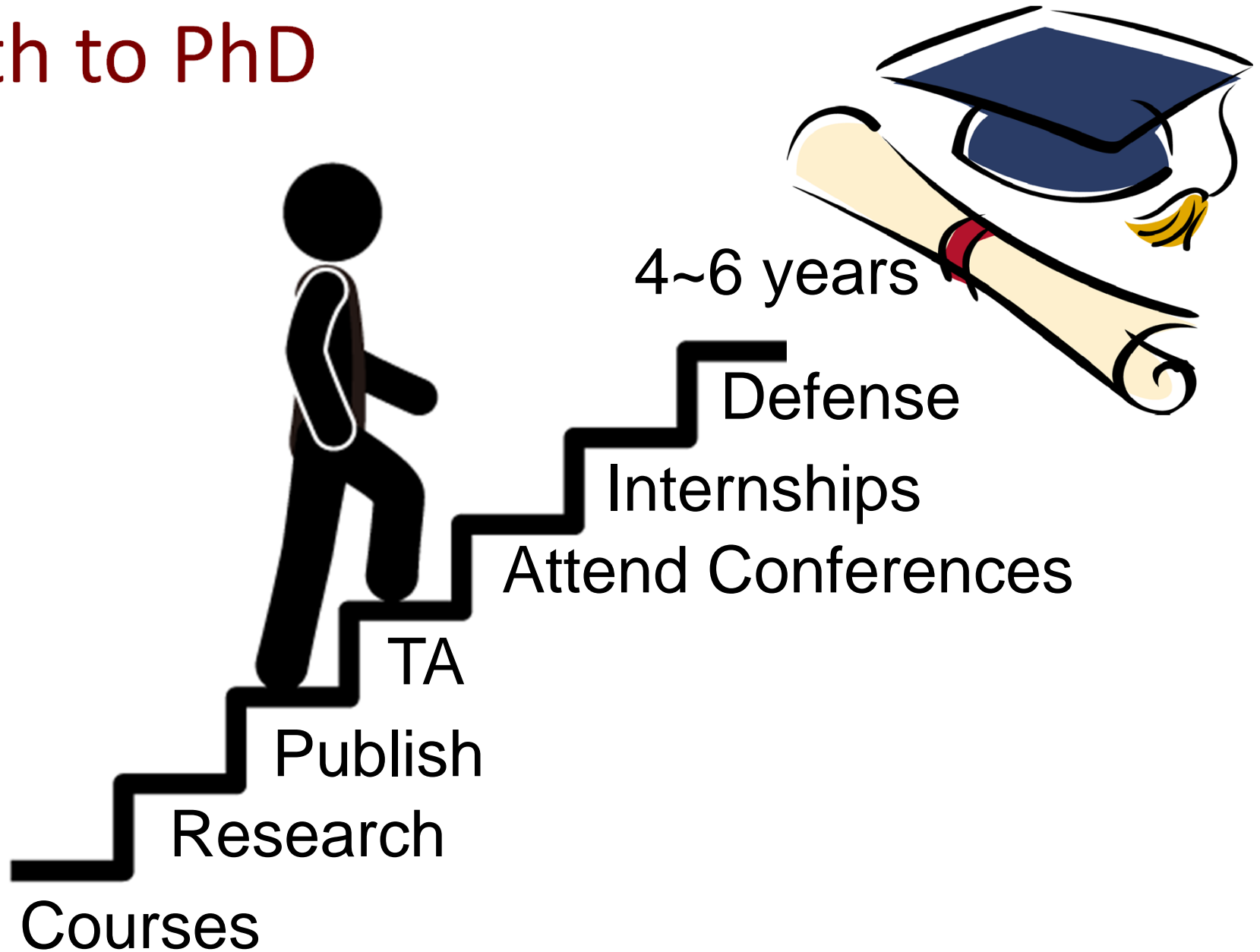
- 260 PhD students (largest program on campus)
- 45 per year join from ~ 700
- ~5 PhD students per IC faculty (+ affiliated faculty)

Info:

- 4-6 years
- In English
- Paid at 75% entry-level engineering salary
- Admission/Candidacy cycle similar to the US
- Admit 4-year BS programs

**Application deadline: Apr. 15th,
2016!**

Path to PhD



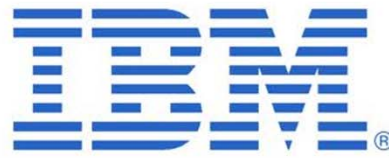
40 students on internship worldwide in 2015!



technicolor



hhmi



Google

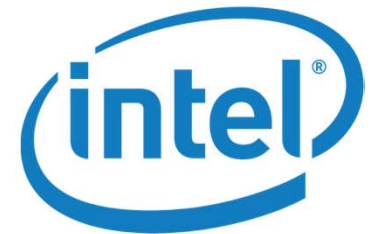
csem



Microsoft



NEC



Honeywell

QUALCOMM

vmware



swisscom

ORACLE

Industrial Scholarship Winners 2014

Kaynak



Kasikci



Kocberber



Sadeghipoor



Ngo



Alagiannis



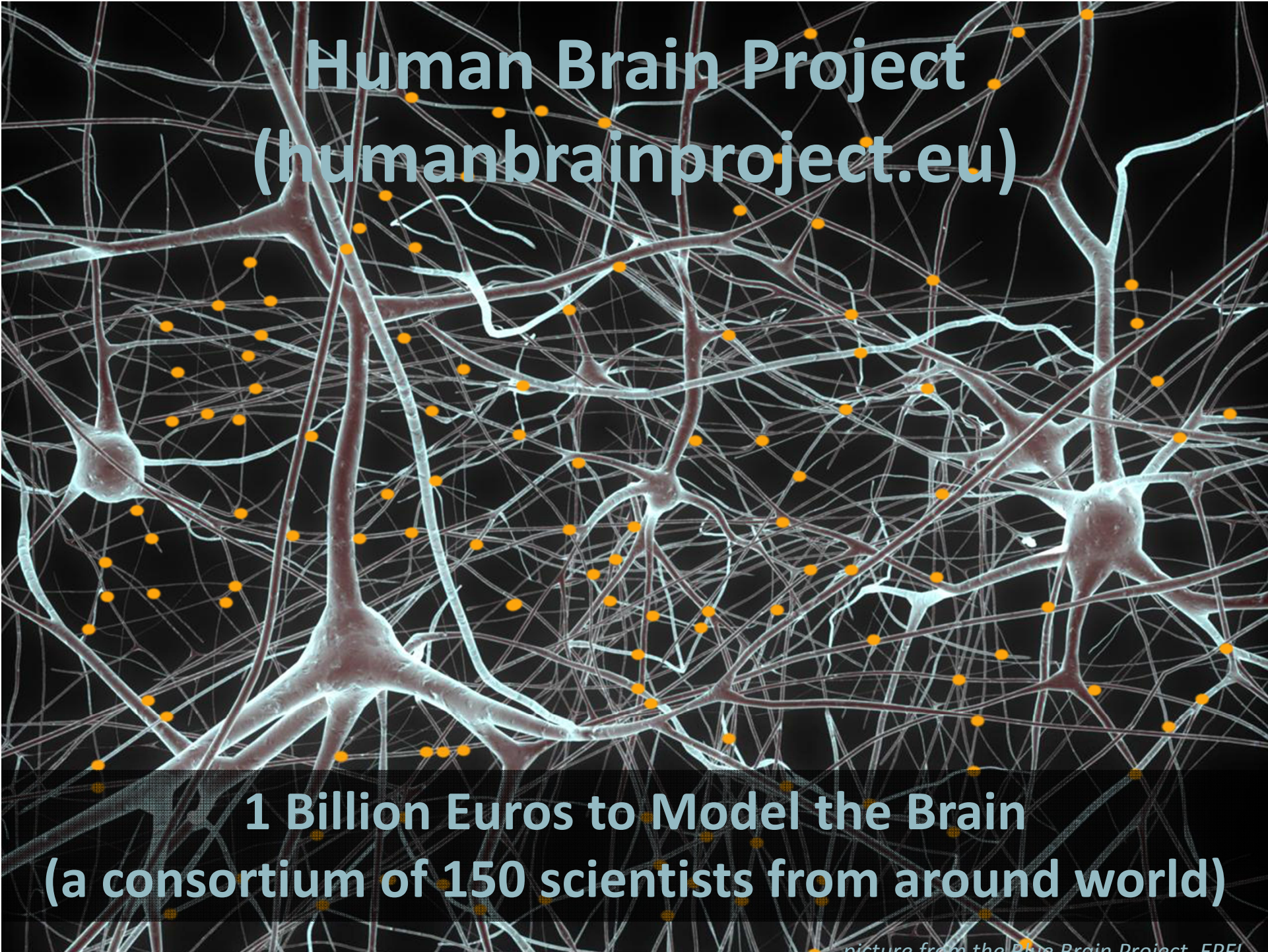
Dokmanic



Research

phd.epfl.ch/edic/members

- Algorithms & Theoretical Computer Science
- Artificial Intelligence & Machine Learning
- Computational Biology
- Computer Architecture & Integrated Systems
- Data Management & Information Retrieval
- Graphics & Vision
- Human-Computer Interaction
- Information & Communication Theory
- Networking
- Programming Languages & Formal Methods
- Security & Cryptography
- Signal & Image Processing
- Systems



Human Brain Project (humanbrainproject.eu)

1 Billion Euros to Model the Brain
(a consortium of 150 scientists from around world)

Venice Time Machine

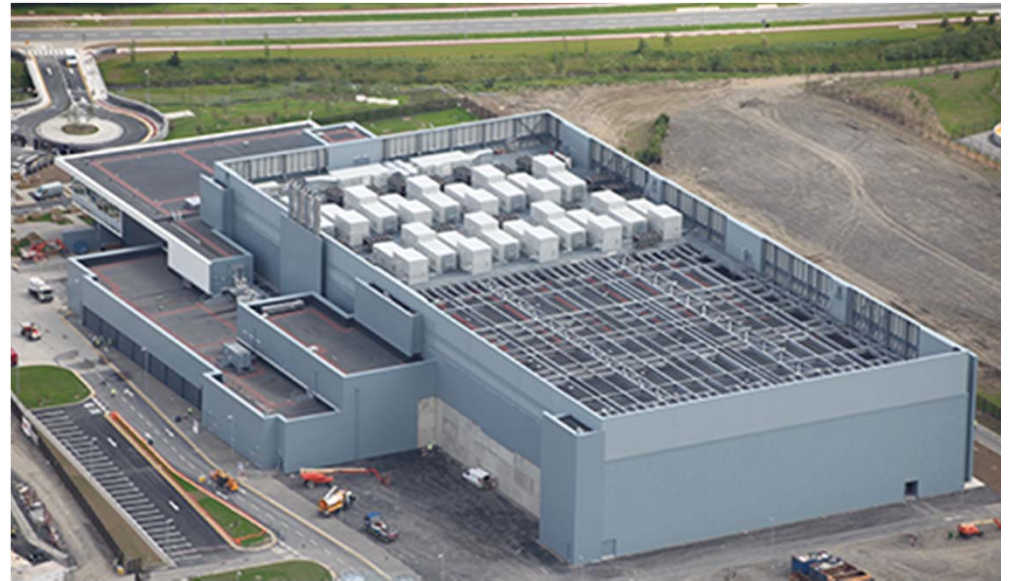
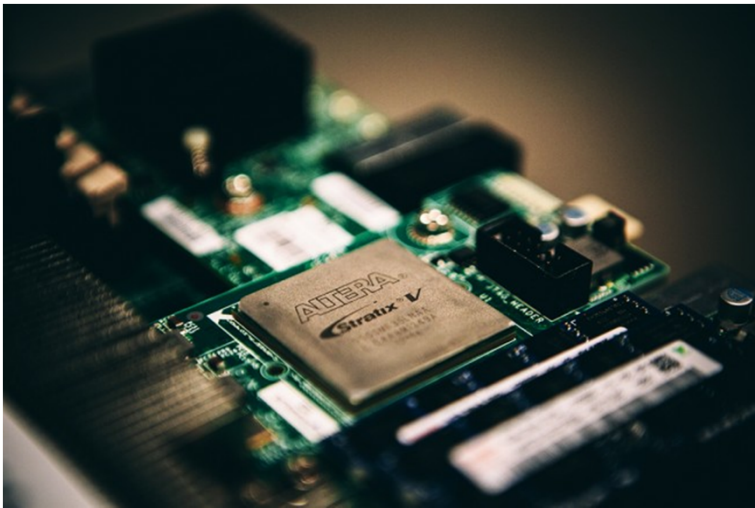
(vtm.epfl.ch)

**Big Data for Digital Humanities:
Online view of millennia of city's history**



Microsoft Unveils Catapult to Accelerate Bing!

[EcoCloud Annual Event, EPFL, 2014]
ecocloud.ch



- *Machine Learning Gets Big Boost from Ultra-Efficient Convolutional Neural Network Accelerator*
- *EPFL one of two schools worldwide to get a rack of Catapult!*



Industry and Startups

Startups: Some recent news

- Kandou raises major investment
- Typesafe/Scala (used by Amazon, Twitter)
- BugBuster acquired AppDynamics

Industrial collaborations

- EcoCloud center
- Lablets on campus
(AXA, Credit Suisse, ELCA, Logitech,)
- Major research grants from key players
(Microsoft, Google, Oracle, Qualcomm,)



Research Internships for BS Students

MAKE THE
MOST OF
YOUR SUMMER

<http://ic.epfl.ch/SummerAtEPFL>



SCHOOL
OF COMPUTER
AND COMMUNICATION
SCIENCES

Summer@EPFL

PERFORM A THREE-MONTH PAID INTERNSHIP IN SWITZERLAND

Participate in world-class research projects at one of the most prestigious campuses.

Open to all BSc and MSc students in Computer Science, Computer Engineering, Telecommunications or Electrical Engineering.

Switzerland at the heart of Europe



- Borders Germany, Austria, Italy & France
- ~7.8 million people
- Languages: German, French, Italian, Romansh (official)
 - Most speak English
- Beautiful alps + lakes

Switzerland Tops Many Charts

#1 in global competitiveness

Top # of innovations/capita

Top # of startups/capita

Top spender of IT/capita

Top standard of living



[source: The Economist, World Economic Forum, OECD]

Some of our graduates....

Ayfer Ozgur

Prof. at Stanford



Eva Darulova

Prof. at MPI-SWS



Ali Galip

Google



Onur Kocberber

Oracle labs



Sotiria Fytraki

Maxeler



Xavier Jimenez

Sensefly



Milan Vojnovic

Microsoft Research



Soheil Mohajerzefreh

Prof. at Minnesota



Amin Karbasi

Prof. at Yale

Shahram Khazaei

Prof. at Sharif



Olivier Crameri

Founder
BugBuster

For more info please visit
phd.epfl.ch/edic

Send questions to
edic@epfl.ch

