

PEKING UNIVERSITY
JULY 15–28, 2018

The AEARU STEM Summer Camp Program 2018

The AEARU STEM Summer Camp 2018 will provide an exciting learning experience for the students from AEARU member universities, connecting them with their peers from around the world.

The Camp will be hosted by Peking University in Beijing, China. Courses will be focusing on the frontier knowledge of Computer Science and Engineering. Both undergraduates and graduate students are welcome to apply through the AEARU coordinator of their home universities.

Courses:

Course Name	Instructor	Dates	Credit
Deep Learning	TANG Jian	July 3 - 8	2 credits
Computational Social Science	ZHU Jianhua Winson PENG	July 2 - 12	2 credits
Probabilistic Models for Structured Data	SUN Yizhou	July 2 - 13	2 credits
Machine Learning in Computer Vision	Carlo TOMASI	July 2 - 15	2 credits
Foundations of Big Data Systems	Tamer OZSU	July 9 - 15	2 Credits
Biometric Authentication: System and Application	ZHANG Dapeng	July 9 - 22	2 Credits
Health Informatics – Big Data Approach	ZHANG Yanchun	July 14 - 20	2 credits
Compact Data Structures for Big Data	CHEN Shigang	July 15 - 22	2 credits
Economics and Computation	XIA Lirong	July 16 - 25	2 Credits
Design Informatics	Maria Wolters	July 16-27	2 Credits
Becoming a Medtech Entrepreneur -- What is Biodesign?	Robert Chang	July 16-27	2 Credits
Machine Learning for Time Series Analysis – Statistical Models and Deep Learning	LIU Yan	July 23 - 27	2 Credits
Data Management for Big Data Analytics	Leonid LIBKIN	July 23-31	2 Credits
Computer Ethics	Stephen COOPER LU Junlin	July 23 - August 3	2 credits
Computation, Economics and Data Science	CAI Yang	July 23- August 3	2 Credits
Foundations of Artificial Intelligence	Vincent NG	July 25- August 5	2 Credits
Computational Game Theory	Dan Garcia	July 31-Aug 10	2 Credits

Attached please find the detailed syllabi of each course.

Eligibility:

- Be between the ages of 18 and 40 (inclusive) and be in good health;
- Be currently a full-time registered student at one of the AEARU member universities;
- Have proof of English proficiency (absolved if the teaching language of the home university is English).
- Minimum GPA requirement of 3.0

Tuitions and Fees:

The tuition fee is WAIVED for nominated AEARU students.

Travel, accommodation, meals, and other expenses are the responsibility of the students.

For each AEARU member university, PKU can offer up to **TWO** places of **FREE** accommodation for the period from July 15 to July 28, 2018 (based on the nomination of the home university).

Nomination Deadline:

May 15, 2018

Note:

Sometimes, course(s) might be cancelled if the number of enrolled students is below the minimum requirement. In such case, the affected student(s) can choose another course or withdraw from the program. The confirmed list of courses to be provided before May 31, 2018.