

# AI and Brain Computation



## ORGANIZERS

Si Wu, Peking University

Jun Zhang, University of Michigan

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## COURSE DESCRIPTION

The course aims to introduce state-of-the-art methods in AI, machine learning, and statistical analysis as applied to key issues in computation and cognitive neuroscience. Talented and highly-motivated PhD students at all levels as well as postdoctoral fellows/junior scholars with either 1) experimental background while interested in learning quantitative skills; or 2) theoretical background while interested in applying their computation skills to cognitive neuroscience are welcome to apply. There are no geographical restrictions of applicants.

The course will consist of two parts. The First Week will focus on teaching mathematical skills, computational models, and Python-based programming (with practical sessions). The Second Week will focus on introducing students to advanced research topics in the field. Students are expected to complete hand-on projects during the course. Our objective is to train students to apply learned AI and computational skills to solve cognitive neuroscience problems.

## INVITED LECTURERS

Yanchao Bi, Beijing Normal University

Kenji Doya, Okinawa Institute of Science and Technology

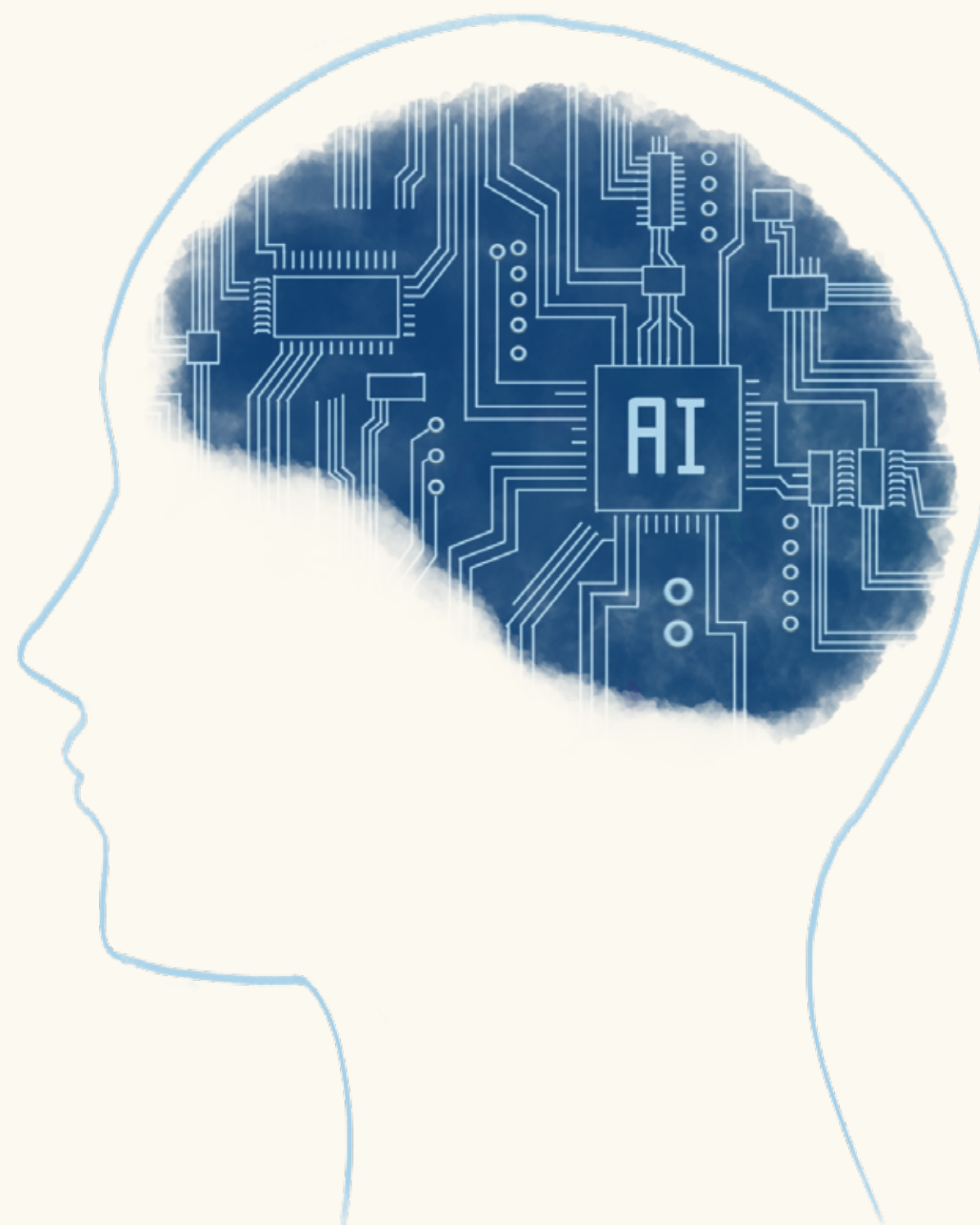
Jia Liu, Tsinghua University

James McClelland, Stanford University

Naftali Tishby, Hebrew University

Xiaoqing Wang, New York University

Bin Yu, UC Berkeley



Suzhou, CHINA

August 9 - August 22, 2021

**Application Deadline: May 14, 2021**