

# *2023 Winter Frontier Research Program*

## *Deep Learning in Computer Vision*

### **Program Overview:**

This Program is instructed by faculties from the Massachusetts Institute of Technology and experts from the field. It puts “cutting-edge” and “interdisciplinary” in the core of its curriculum, containing the following modules: lecture, tutorial, Q&A session, and writing booster. The professor and instructors guide learners through the process of computer vision algorithms and applications, building neural networks and neural models, and understanding deep learning networks. Together with the project-based learning experience embedded in the lab assignments, this program navigates along the way to further refine the student’s research skills and inspires them to take on challenges and reshape the future of the field. With the writing component, program graduates tend to process and express their flow of ideas more efficiently, urging them to transcend with all-around development.

### **Biographical Information of Primary Instructors:**

- **Dr. Alexander Amini**

- Research Scientist at Massachusetts Institute of Technology;
- NSF Fellow;
- Concentration: Deep Learning, Robotics.

- **Dr. Susan Mendelsohn**

- Director of Writing Center, Columbia University;
- Senior Lecturer in the Discipline of English and Comparative Literature.