



清华大学
Tsinghua University



Briefing on Final Project of Advanced Computer Vision

http://thu-acv.github.io/final_project.html

- **Key Component**

- Project proposal (10%)
- Final report and presentation (90%)

- **Choose your topic**

- We provide a topic pool in next slide and the final project can also be any topic related to the theory or applications of deep learning. You may get inspiration from papers in top conferences, e.g., ICML, ICLR, NIPS
- Fill in the Form <https://jinshuju.net/f/I1xQch> before Apr. 20, 2021.
- **Deadline: Apr. 20, 2021**



• Alternative topics

- 2D object recognition
- 3D object recognition
- Action and behavior recognition
- Biometrics, face, gesture, body pose
- Efficient training and inference methods for networks
- Image and video retrieval
- Image classification
- Motion and tracking
- Optimization and learning methods
- Pose estimation
- Scene analysis and understanding
- Transfer, low-shot, semi- and un- supervised learning
- Video analysis and understanding
- Vision applications and systems, vision for robotics and autonomous vehicles

- **Available TAs**

- Each student will be assigned a TA-in-charge based on your topic.
- You can discuss with your TA-in-charge. BUT they will NOT help with debugging, thinking the main bulk of your idea, writing paper, etc. It is your own responsibility to conduct the WHOLE pipeline.
- All inquiries, correspondences, etc. *regarding to the final project* should be sent to your own TA-in-charge. He or she will help you through the project.

- **TAs**

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|----------------|---------------------------|
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• Proposal

- Project discussion with your TA-in-charge on Apr. 22' s tutorial (It is optional to attend, and does not affect your scores).
- Submit a proposal of 1-2 pages, including introduction to your main idea, survey of related works, and a tentative timeline.
- **Deadline: May. 9, 2021**

• Final Report and Presentation

- Submit a 4-page final report (template will be provided) before the presentation day.
- Each student has 10 minutes of presentation and 3 minute Q&A.
- **Deadline: May. 28, 2021**

For all inquiries:

- See the website
- Resort to your TA-in-charge