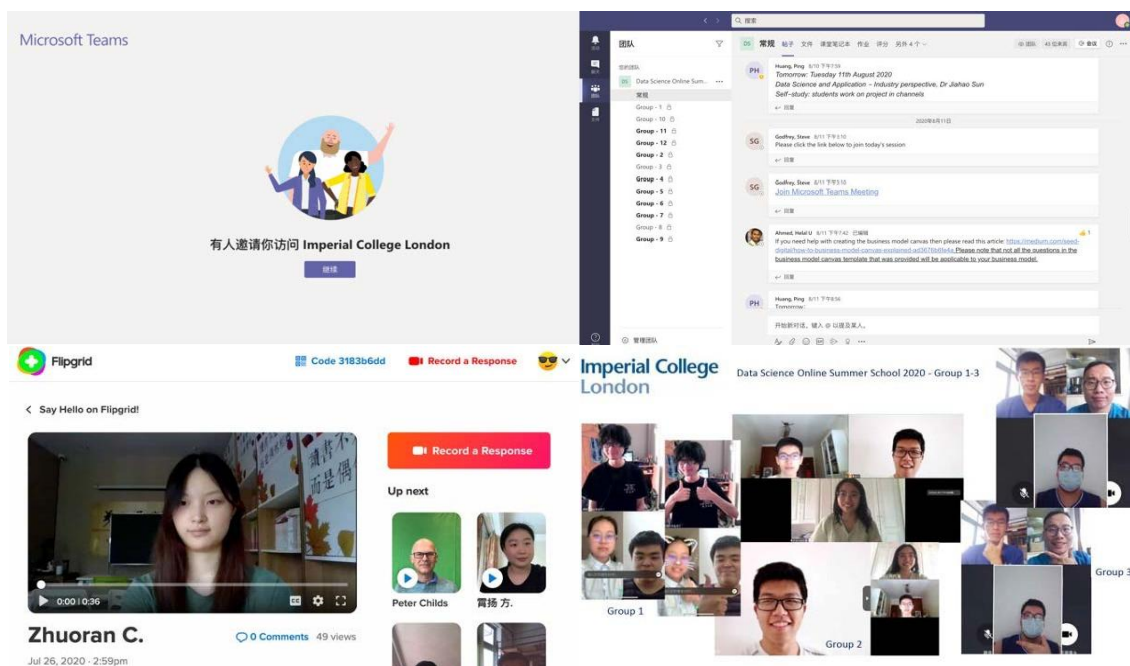# Imperial Data Science Online Winter School 往期回顾说明

2023年，帝国理工学院将如期举行寒假学校。受全球疫情影响，寒假所有课程将在线举行。以下是关于Imperial Data Science Online Summer / Winter School的往期回顾及说明。

图为往期 Summer / Winter School 校友合影

一、教学方式及课程平台

2023 Imperial Data Science Online Winter School 将使用微软公司的 Teams 平台进行在线授课，同时使用 Flipgrid 等平台建立更具支持性、协同性的交流，进行积极的社交学习；使用 Box 作为云网盘提供课件、课程录屏等学术材料支持。

图为上述部分平台的截图展示

二、师资介绍及课程安排

暑校由帝国理工学院数据科学研究所(Data Science Institute, 帝国理工学院六大全球研究所之一)创始所长、英国皇家工程院院士、华人科学家：郭毅可教授领导并将亲自授课。

往期其他导师包括但不仅限于:Zhengming Chen教授 (英国牛津大学流行病学专家), Peter Childs院士 (帝国理工戴森设计工程学院院长，英国皇家工程院院士)，Mark Thomas Kennedy教授 (帝国理工数据科学研究所联合所长，商业分析实验室主任)等。

图为2022 Winter School 教学团队

图为2022年Winter School的两位教授(从左往右)：

Yike Guo教授(数据科学研究所创始所长、英国皇家工程院院士)、Zhengming Chen教授(英国牛津大学流行病学专家)

在Winter School中，学生将学习数据科学、人工智能、机器学习等主题课程。

帝国理工学院将在寒校开始前对录取的学生进行分组，课程期间学生将在导师的指导下以小组为单位完成一个专业项目，辅导老师将会在 tutorial 环节为各小组提供帮助。

课程最后一天，学生将进行小组展示，评委老师将会根据学生的完成及表现情况进行打分。
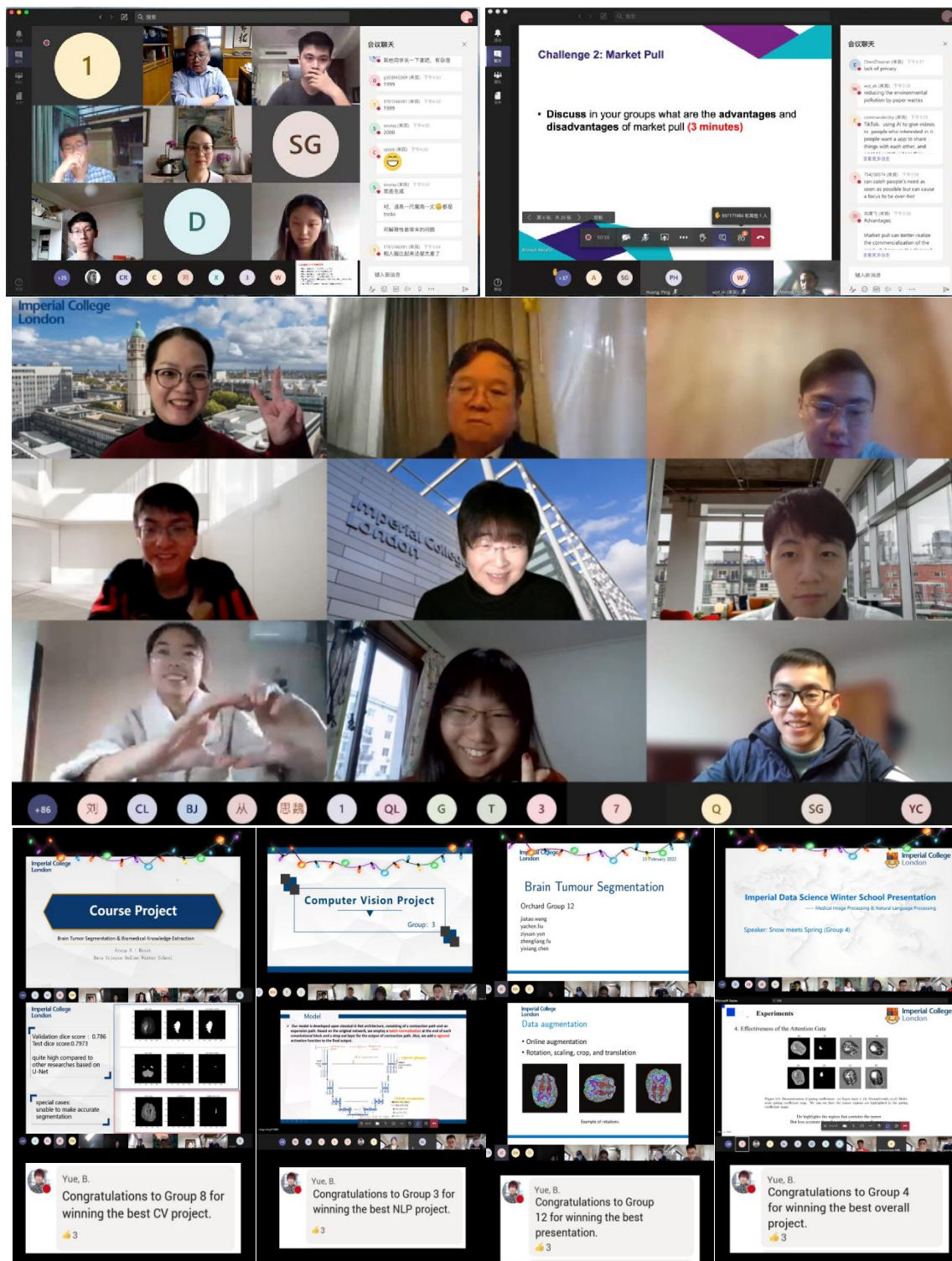
往期 Summer / Winter School 的课程截图和项目展示截图

三、结业证书

顺利完成项目的学生将收到由帝国理工学院颁发的官方证书及成绩单。获奖小组将获得由帝国理工学院签发的Award Letter。

四、部分同学反馈及分享

梁汉杰同学 - 2022年2月收到英国帝国理工学院计算机系offer
Imperial Data Science Online Summer School 2021 校友

在去年四五月份的时候，我通过同学偶然间看到了帝国理工学院数据科学的暑校项目，在短暂浏览课程设置与申请要求后，我几乎立即就开始了申请的准备工作，最后也很幸运的得到了暑校的录取。

暑校的课程内容十分"硬核"，里面的知识基本覆盖了数据科学领域的大部分内容，听完暑校后基本会对整个领域有一个初步的了解。

此外，暑校授课的老师也是大咖云集，像郭毅可教授这种院士级别的大佬也会到场为我们上课与解答疑惑，其他领域的业内人士也会给我们分享数据科学与人工智能领域在他们行业内的应用，且每周我们都会有机会与帝国理工的在读同学进行交谈，了解他们对学校的看法等等。

整个暑校最重要的是要完成两个项目，这个非常考验整个团队的协作与科研能力，我们需要在短短的几周时间内完成项目报告等内容，完成的过程中我们可以学习到很多专业的知识，能很好的加深我们对于该项目内容的理解，而最后课程的评分也是根据项目的完成情况做出评价。

参加暑校也能增加后续进入帝国理工学习的机会，丰富申请时文书的内容，让自己的简历更为出彩。

- *"An opportunity to actually get real practice of ML and to meet so many outstanding teachers and classmates. It's indeed a wonderful experience, learning knowledge and coming across with so many excellent teachers and classmate. Only pity is that we cannot meet offline and go to IC to have a look."*

  -student from Zhejiang University.

- *"Prof Yike Guo broadens our horizons about what AI is really like and the difference between Engineering and Science. It is helpful for my further plan about both career and education. It is great for someone who is interested in Machine Learning and is better for CS-background students to come. Besides, it is quite different from the Data Science major in our school, which is more related to finance and economics."*

  - student from Xiamen University.

- *"The most useful features as far as I am concerned is that this programme provide a window for me to know the advanced work of data science and get a sensible and reasonable comprehension of deep learning. I think it opens a door to the world of data science for me."*

  -student from Zhejiang University.

- *"This programme is very rich in content and let me have a comprehensive understanding of data science. I think taking this programme is an excellent way to learn data science."*

  -student form Harbin Institute of Technology.

- *"The program tutorial and group project are very useful and inspiring."*

  -student from Southeast University.

- *"Help me learn more about machine learning. This is the first time for me to carry out this kind of projects so it really inspired me on this field. Really helpful for my future study."*

  -student from Dalian University of Technology.

- *"It covers various aspects of data science and artificial intelligence. I really have learned a lot through the programme and thanks to all professors, supervisors and all friends here~"*

  -student from Shanghai Jiaotong University

- *"I learn how to use machine learning in practice. Teachers are excellent and teammates also helped me a lot."*

  -student from Zhejiang University.