

# BLENDED LEARNING


IN COLLABORATION WITH  xPRO

2022

Kaiser Q.

Blended Learning MIT

# BLENDED LEARNING

IN COLLABORATION WITH  xPRO

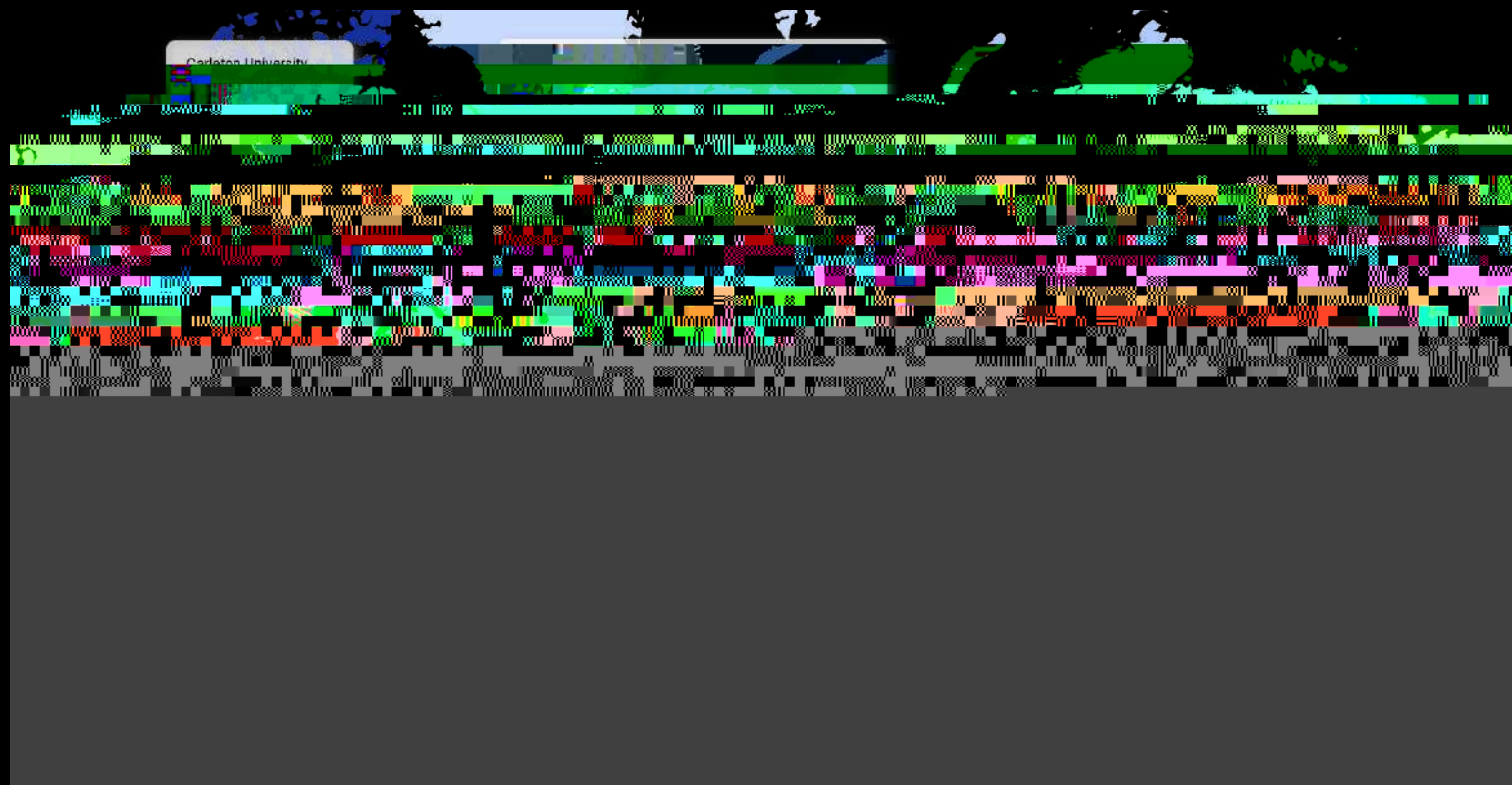
2022

Blended Learning

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# Blended Learning

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# Blended Learning 2022

University of Toronto  
University of Ottawa  
University of Waterloo  
Ryerson University

Durham University  
York University  
King's College London  
London School of Economics and Political Science  
University College London

Canada



20+

United States



50+

20+



Germany



2+

RWTH Aachen University  
Technical University of Munich



China

100+

University of Seoul  
Korea University  
Yonsei University

Korea



# Blended Learning 2022

# Blended Learning

# MIT

# Blended Learning

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The screenshot shows a GitHub issue from Xinyu Liu asking a question about netCDF files. Below the text is a screenshot of the Sentinel-5P Pre-Operations Data Hub interface, which displays a search result for 'Open Street Terrain + Overlay Sentinel-2 Cloudless + Overlay' with 0 products found.



Jupyter Notebook



# Blended Learning

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AP4 Applied Psychology: Track 4 7

Chat Docs Pin File +

Nancy Tsai

MIT

This screenshot shows a Slack channel interface. At the top, the channel name is "Applied Psychology: Track 4" with a member count of 7. Below the name are icons for Chat, Docs, Pin, File, and a plus sign. A user profile for Nancy Tsai is visible. The main content area is almost entirely obscured by a large, solid red rectangular redaction box. The letters "MIT" are visible in the lower right portion of the redacted area.

AP1 Applied Psychology Research Team 1 8

Chat Docs File Group Announceme... +

William: Mentor/Academic Advisor

Hey @All , just a reminder that your FINAL PRESENTATION session is coming up in a little over 16 hours, tomorrow 5/27 from 9-11am. Each person in the group should speak. Let me know if you need any help or have any concerns!

Inspired social brain cognitive neuroscience or education psychology. I am very pleased with your paper and hope you all feel proud of your work as well! Please reach out if you need anything :) I look forward to your final presen

This screenshot shows a Slack channel interface for "Applied Psychology Research Team 1" with 8 members. The channel has icons for Chat, Docs, File, and Group Announcements. A message from William, a Mentor/Academic Advisor, is displayed. The message text is: "Hey @All , just a reminder that your FINAL PRESENTATION session is coming up in a little over 16 hours, tomorrow 5/27 from 9-11am. Each person in the group should speak. Let me know if you need any help or have any concerns!". Below the message, there is a large block of text that is mostly redacted with a grey box, but some words are visible: "Inspired social brain cognitive neuroscience or education psychology. I am very pleased with your paper and hope you all feel proud of your work as well! Please reach out if you need anything :) I look forward to your final presen".



# Blended Learning

/

Online Debate Models Team 2

Chat Docs File +

Rafal Olszowski

Dear all, thank you for yesterday's meeting. If you provide me some **keywords for Twitter query, I can do** researches for you; Before you get search API access.

Blockchain & AI Team 2

Chat Docs Group Announceme... File +

Hengxu Li May 3, 11:15 AM

Thank you for your time @Wassim Alsindi. It's a very fruitful discussion and we were able to get so much from today! I just one more question (out of curiosity). Would there be a way for scholars to estimate a fair value of cryptocurrency (or estimate the value, to put it another way)?

Algorithmic Trading Team 1

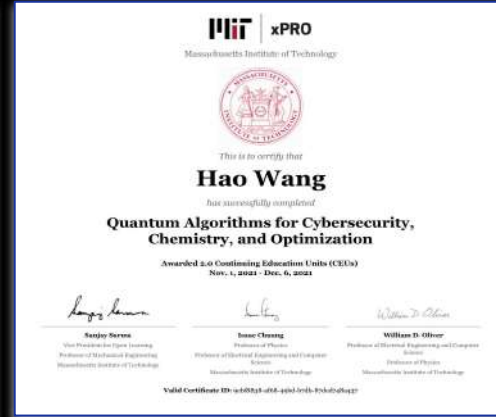
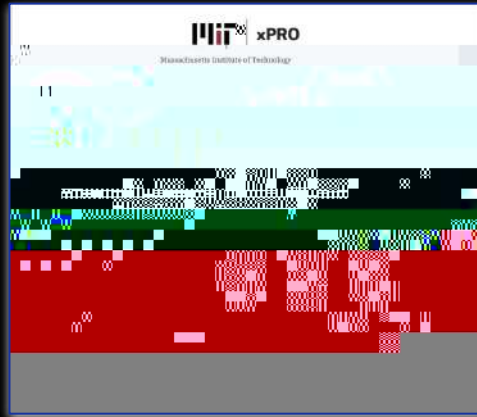
Chat Docs File Group Announceme... +

Bill Sektu Wang

working on. Of course, if the other authors agree - I'll think it will be possible soon as we introduce the changes.

coin/token

er one (for mined networks) is to estimate the cost of energy



# Blended Learning

### What is the Bitcoin trend?

Using social media and old-Gold Price to estimate the Bitcoin price

Ruibin Yao, Siqian Wu, Shuoli Qi

**Abstract**

As one of the most trending modes in the internet market, cryptocurrency draws many professionals' attention. Bitcoin, the most famous cryptocurrency, is attracting tremendous attention from professionals as well as the public. With the development of the algorithm, Bitcoin's price and volume have increased in the last several years. However, the daily price of Bitcoin is volatile. Consequently, it is a risky investment to invest in Bitcoin.

**1. Introduction**

Cryptocurrency is thought arising with the development of decentralization that, with the introduction of blockchain technology, has revolutionized various industries. According to Financial Post [1], cryptocurrency has a total market capitalization of more than \$1.5 billion on March 16, 2017. This number is still increasing constantly along with the fluctuations. The CPI of the United States has now 7%, which has caused the highest level since June 1992. Accordingly, Bitcoin rose 3.3 per cent to 144 data were released. Some investors are predicting higher inflation, pushing such a check higher.

What is Bitcoin trend?

### MultiRL: A reinforcement learning framework for unparallel literary text multi-style transfer

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Beijing Jiaotong University  
Pingang, China  
20170119@bjtu.edu.cn

Jie Tang  
Optics  
Beijing Jiaotong University  
Pingang, China  
20170119@bjtu.edu.cn

Jialu Liu  
Educational Technology  
University of Michigan  
Ann Arbor, USA  
liujialu@umich.edu

**Abstract**

Deep neural networks have achieved great success in supervised tasks such as product recommendation systems. However, the task of unparallel text style transfer with unpaired source and target text is still an open problem. In this paper, we propose a framework named MultiRL, which combines the framework between the target and source text. In this paper, we propose a framework named MultiRL, which combines the framework between the target and source text. In this paper, we propose a framework named MultiRL, which combines the framework between the target and source text.

**1. Introduction**

The development of deep learning has achieved great success in supervised tasks such as product recommendation systems. However, the task of unparallel text style transfer with unpaired source and target text is still an open problem. In this paper, we propose a framework named MultiRL, which combines the framework between the target and source text.

### Resilience of adolescents under acute stress and a potential measurement

Wexin Zheng, Xinyu Deng, Tong Zhang (Corresponding author)  
Address: Nanyang Tech

**Abstract**

Stress is one of the main causes of mental illnesses and it is divided into chronic stress and acute stress according to the duration of action. In human terms, resilience is an ability to deal with the bad effects caused by stress. Investigating adolescent resilience under stress will help predict potential mental illnesses. Recent studies use questionnaires to measure the degree of resilience and most of them focus on the effect of chronic stress. In this research, resilience under acute stress is focused and a new measurement to investigate resilience by collecting data from a game is proposed, which helps to measure resilience more objectively.

**1. Introduction**

Stress plays an important role in the development of people's physical and mental health. According to research about relationships between stress and mental diseases, it has been proven that stress has a strong correlation with these diseases (Parker, 1979; Van Praag, 2004). For those who are exposed to great stress with a high potential to get mental illnesses, a good factor is that human factors have built up mechanisms to deal with the bad influence, which is called "resilience". In general, resilience can be defined as a dynamic process of adapting to adversity and improving people's performance under tough conditions (Masten et al., 2010; Rutter, 1987; Monroe & Olsson, 2007). People who have higher resilience are less affected by both direct and indirect influences of negative emotions. The development of resilience should be regarded as a complex combination that the interaction of both cognitive development and capacity largely forms the entire life (Lerner, 2014) as it is

### Transfer Learning-based Prediction for Shared Bicycle Demand Flow

Yuchen Liu, Yuhang Zheng, Qile Zang

**Abstract**

As an important component of urban space, shared bicycle is the key to solve urban transportation. Development of the transportation system is key to promoting the realization of the development goal of "green city". However, when using traditional methods, the data source is not always the same as the target system. This research uses an old data source to predict the demand of shared bikes in different areas and different times, and evaluates the accuracy of these models, and also uses the transferability of using the domain for Washington DC and New York.

**1. Introduction**

As an important component of urban space, transportation system is the key to solve urban transportation. Development of the transportation system is key to promoting the realization of the development goal of "green city". As one of the new forms of sharing economy, sharing bike system in Beijing, Tianjin, and Hangzhou has attracted the attention of the public and has become the most important subject of urban traffic. Nowadays, bike-sharing system is becoming a economic life for the "last kilometer" problem. In the current situation of rapid development of big data system, which can solve many problems with the success of data mining.

**2. Public Services**

After comparing the data, we found that most bicycle traffic is distributed in the center of the urban and the time of entering and leaving the station. This leads to the rise and fall of the number of bicycles existing in the station. This leads to the rise and fall of the number of bicycles existing in the station. This leads to the rise and fall of the number of bicycles existing in the station.

### Random Channel Correlation Block for Diversified Arbitrary Style Transfer

Xuan Luo, Alex Benjamin, Zhen Han

**Abstract**

Arbitrary style transfer methods can generate stylized results with any content-style pair in real-time. However, they cannot produce diversified results for the same image pair since the parameters are fixed. The existing diversity methods are mainly based on randomized operations or least constraining the feature distributions, resulting in distorted and limited diversity. We proposed a random channel correlation block to alleviate these problems, which can regulate the channel of content and style feature separately. This block uses the layer-wise correlation operation to capture the distribution of feature and produce the channel weights. A random vector is drawn from normal distribution as an output noise representation. This a non-linear operation is performed between the random vector and the channel weights to generate noise. The correlated random vector is selected to transfer the feature to diversity. To better train and evaluate the diversified accuracy of style transfer process, we also defined a novel diversity loss and an arrangement diversity loss. Experiments demonstrate the effectiveness of the proposed random channel correlation block and the diversity losses.

**1. Introduction**

Style transfer methods take a content-style image pair as input and output a stylized image, which process on the adaptation of the content image while maintaining the style patterns. The pioneering style transfer algorithm in [1] iteratively optimizes an image with perceptual losses based on VGG [2] feature. These algorithms are further enhanced by [3, 4]. Although these optimization-based methods can produce diversified high-quality results, their iteration process is prohibited slow. To solve the image is real-time, feed-forward network based methods [5, 6] and arbitrary style transfer methods [7, 8] are proposed. The feed-forward network based methods are pre-trained with a single style or a set of style images, and the optimization results with a single feed-forward network. The arbitrary style transfer methods generate the feed-forward network to solve the number of style by leveraging the feature activation. These methods have drawn much attention from the researchers and industrial data to their efficiency and stability.

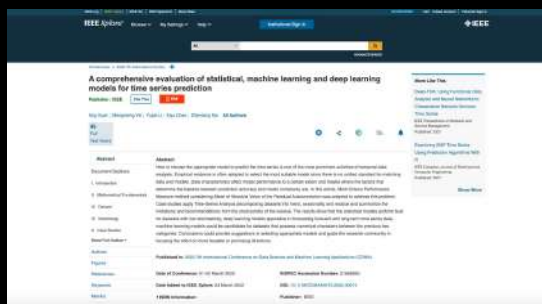
# Blended Learning



A Prior Probability of Speaker Information and Emojis Embedding Approach to Sarcasm Detection

Yin Wang, Xuyang Xu, Ziteng Gao, Xi Shi

PBL Natural Language Processing - Apple Siri Project



A comprehensive evaluation of statistical, machine learning and deep learning models for time series prediction

Ang Xuan, Mengmeng Yin, Yupe Li, Xiyu Chen; Zhenliang Ma

PBL Machine Learning and Smart Transportation - Lyft Project



Demand forecasting: From Machine Learning to Ensemble Learning

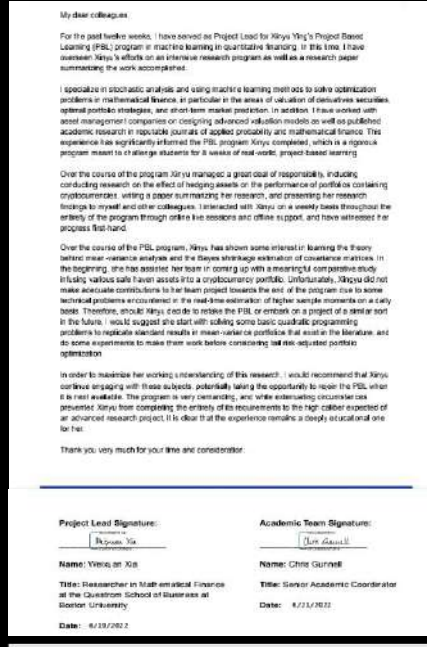
Yang Zhang, Hongyi Zhu, Yujing Wang, Tianchen Li

PBL Natural Language Processing - Apple Siri Project

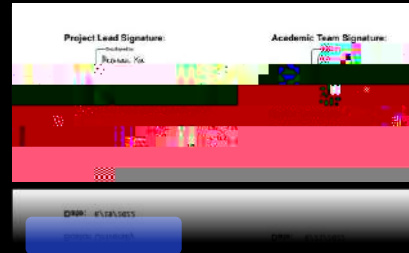
# Blended Learning



PBL Algorithmic Trading - Bridgewater Project



PBL Blockchain and AI in Financial Data Science - Galaxy Digital Project

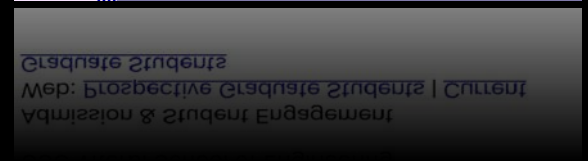
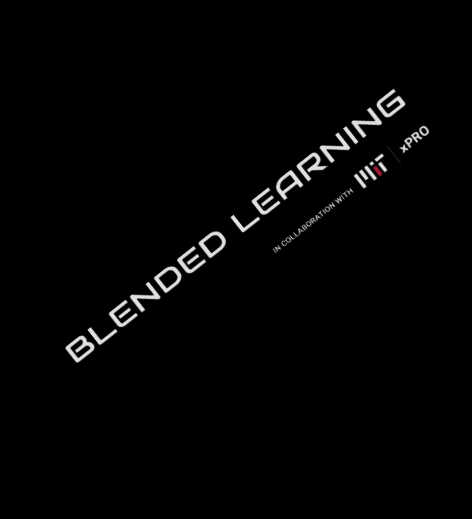
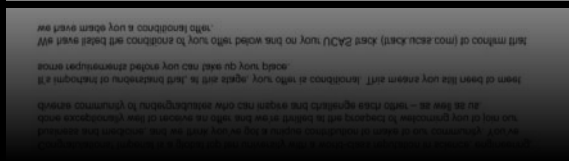


PBL Demand Forecasting and Supply Chain Analytics - IKEA Project



PBL Recommendation Systems - Netflix Project

# Blended Learning



# Blended Learning



- Base SPOC: Machine Learning
- AI: Deep Learning in Medical Imaging - Siemens Project
- DA: Algorithmic Trading - Bridgewater Project

- Base SPOC: Machine Learning

- Deep Learning in Medical Imaging - Siemens Project
- Advanced SPOC: Applying Machine Learning to Engineering and Science





# Blended Learning

Voice of global students

**Wenxin Z.**

Blended Learning

taking a gap year

**Christine C.  
Pratt**

IEEE

**Yunlong T.**

offer

**Anthony D.**


“ Blended Learning “ “ ”  
“ ”  
WTP  
E4M  
STEM ”

Lead: Concentrated Name ▾	Lead: Full Name (Mandarin) ▾	Pricing Plan: Pricing Plan Name ▾	Plan Start Date ↓ ▾	Plan End Date ▾
Linyi Wan	万林毅	BL Basic	1/15/2022	3/17/2022
Tianrun Wang	王天润	BL Unlimited	1/15/2022	1/15/2023
Xinyu Ma	马欣雨	BL Basic	1/15/2022	3/17/2022
Yueqi Li	李玥琪	BL Basic	7/17/2021	9/16/2021
Yuqi Ling	凌玉琦	BL Basic	7/17/2021	

Lead: Full Name (Mandarin)	Program Enrollment: Program Name	Program Type	Program Start Date	Program End Date
	Machine Learning in Healthcare - Johnson & Johnson Project	PBL	6/28/2021	9/24/2021
	Algorithmic Trading - Bridgewater Project	PBL	2/19/2022	5/20/2022
	Psychology With Human Data - Neuralink Project	PBL	6/28/2021	9/24/2021
	Machine Learning Hardware - Tesla	PBL	2/19/2022	5/20/2022
	Natural Language Processing - Amazon	PBL	6/28/2021	9/24/2021
	Artificial Intelligence to Environment - Shell Project	PBL	6/28/2021	9/24/2021

字符串 (2)	Base SPOC: Introduction to Quantum Computing	SPOC	1/24/2022	2/21/2022
	Atomic Simulation - Schrödinger Project	PBL	2/19/2022	5/20/2022
Subtotal				
曹敏洁 (2)	Base SPOC: Machine Learning, Modeling, and Simulation Principles	SPOC	4/3/2021	5/15/2021
	Deep Learning in Medical Imaging - Siemens Project	PBL	6/28/2021	9/24/2021
Subtotal				
马俊霞 (1)	Business Analytics	SPOC	8/10/2022	10/5/2022
Subtotal				
张惠雅 (1)	Advanced SPOC: Applying Machine Learning to Engineering and Science	SPOC	4/3/2021	5/15/2021
Subtotal				
孟庆 (1)	Advanced SPOC: Appl	SPOC		

# BLENDED LEARNING

IN COLLABORATION WITH  xPRO

2022

Blended Learning

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# BLENDED LEARNING

Advanced Manufacturing

Artificial Intelligence

Quantum Computing

Financial Technologies

Data Science

Innovative Entrepreneurship

Technical Leadership

Business Strategies

Management System

X

交叉科目

Banking

Blockchain

Design

Education

Entertainment

Environment

ESG

ESG

Finance

Technology

Games

Healthcare

Management Consulting

Materials

Psychology

Social Media

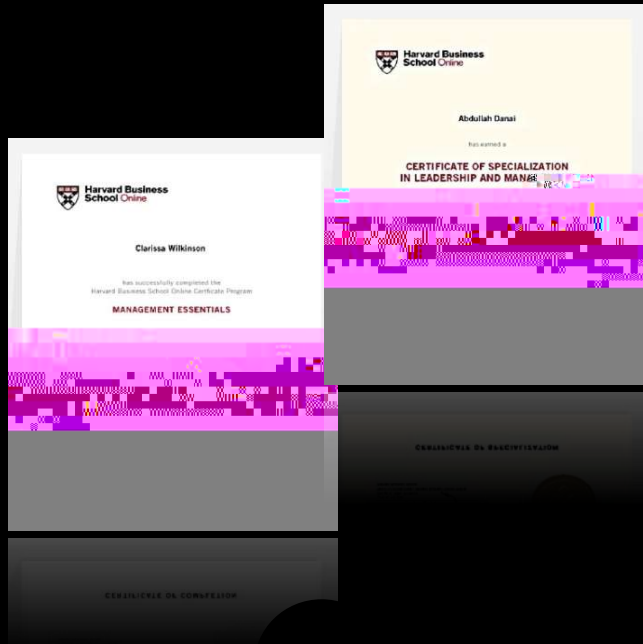
Strategic Ownership

Supply Chain

Transportation

# Blended Learning

How Can Blended Learning Help



# Blended Learning

## How Can Blended Learning Help

- Interdisciplinary knowledge
- Academic Horizon and Network
- **MIT**  
A Bootcamp Quota
- Application Skills
- Project Experience
- LinkedIn Recommendation & Endorsement
- Job Referral Opportunities
- Research Experience and Skills



# 100

## Blended Learning

### Lead Faculty



**J. Christopher Love**  
麻省理工学院  
化学工程教授  
科特曼立综合研究所成员



**Paul W. Barone**  
麻省理工学院  
生物医学创新中心 (CBI) 联席主任  
Remanufacturing@MIT CBI



**Stacy L. Springs**  
麻省理工学院  
生物医学创新中心项目的高级主任  
在生物制造计划执行主任



**Sanjay Sarma**  
麻省理工学院  
开放学习副馆长兼机械工程教授



**Janice Hammond**  
哈佛大学  
麻省理工学院兼职教授  
和文化与社区高级副院长



**William Sabharwal**  
哈佛大学  
麻省理工学院管理科学  
学院副院长及工厂的联合主任  
麻省理工学院主席  
对外关系高级副院长



**Wojciech Matusik**  
麻省理工学院  
电气工程和计算机科学副教授暨  
计算机社会和人工智能实验室成员



**Emanuel Sachs**  
麻省理工学院  
机械工程教授暨  
美国制造研究院院士



**Youcef Meziane**  
麻省理工学院  
计算工程中心主任暨  
麻省理工学院设计实验室主任



**Nelson Repenning**  
麻省理工学院  
麻省理工学院系统动力学教授



**Bharat Anand**  
哈佛大学  
Henry R. Byers 工商管理教授



**Robert Simons**  
哈佛大学  
贝克基金会教授



## Live Session Series

# 6



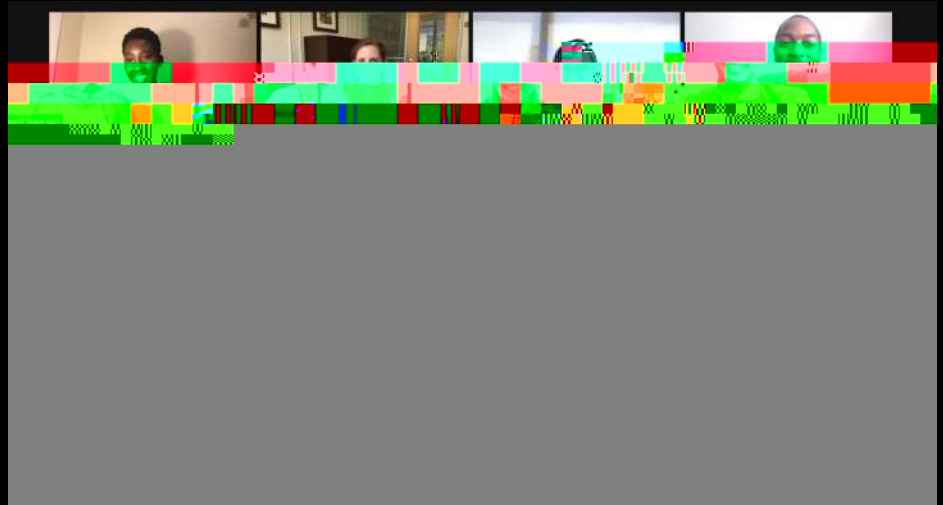
6 - 2 + 2

6 weeks 2 live session hours/ week plus 2 hour pre-session readings

Live Classes: Weekly Zoom live sessions with the Instructors

## PRE-SESSION READINGS

Pre-learning: 5 weeks, receive study materials through emails



2022

# Blended Learning LIVE

Live Session Series

6



Live Session Series

# 2022 Blended Learning LIVE

## Quantum Technologies: Industrial Prospects and New Research Frontiers

**LIVE SESSION DESCRIPTION**

The first Live Session begins by exploring what exactly makes technology "quantum." After this introduction, the session will turn to exploring quantum computing, quantum communications, and quantum sensing. Each exploration will be rooted in industrial prospects, highlighting specific companies as well as the new uses for these new quantum technologies.

**SPEAKER**

**Karl Berggren**

Professor of Electrical Engineering and Co-Head of the Quantum Nanostructures and Nanofabrication Group at MIT

Prof. Berggren is a Professor of Electrical Engineering at Massachusetts Institute of Technology, Department of Electrical Engineering and Computer Science, where he heads the Quantum Nanostructures and Nanofabrication Group. He is also Director of the Nanostructures Laboratory in the Research Laboratory of Electronics and is a core faculty member in the Microsystems Technology Laboratory (MTL).

## Surrogate Modeling for Simulations and Data in Artificial Intelligence

**LIVE SESSION DESCRIPTION**

This Live Session is focused on introducing surrogate modeling techniques to attendees and, particularly, is focused on Gaussian process regression. In addition to introducing these methods to attendees, the live session also takes time to show how the technique works through multiple case studies, as well as cautionsing attendees about the pitfalls and limitations of using the technique. This is a great session for students looking to add another tool to their toolbox of approaches and techniques in the world of machine learning and data analytics.

**SPEAKER**

**Youssef Marzouk**

Co-director of the MIT Center for Computational Science and Engineering

Youssef Marzouk is a professor in the Department of Aeronautics and Astronautics at MIT and co-director of the MIT Center for Computational Science and Engineering. He is also a core member of MIT's Statistics and Data Science Center and director of MIT's Aerospace Computational Design Laboratory. His research interests lie at the intersection of computation and statistical inference with physical modeling. He develops new methodologies for uncertainty quantification, Bayesian modeling and computation, data assimilation, experimental design, and machine learning in complex physical systems.

## Model-based Systems Engineering: Industrial Applications, Theoretical Foundations, and Research Problems Part 1

**LIVE SESSION DESCRIPTION**

In this session, the field of systems engineering is introduced with a focus on model-based systems engineering. In particular, Object Process Methodology (or OPM) is discussed as the state-of-the-art approach to managing products throughout their lifecycle.

**SPEAKER**

**Dov Dori**

Co-director of the MIT Center for Computational Science and Engineering

Professor Dov Dori is a Senior Lecturer in the Industrial Engineering, and Head of the Emergent System Modeling Laboratory at the Faculty of Industrial Engineering and Management, Technion, Israel Institute of Technology. He is Fellow of IEEE - Institute of Electrical and Electronics Engineers, Fellow of INCOSE - International Council on Systems Engineering, and Fellow of IAF - International Association for Pattern Recognition.

Since 2000 he has been increasingly a Visiting Professor at MIT where he is currently Lecturer at OPM - Systems Design and Management Program. His research interests include multi-level systems engineering, conceptual modeling of complex systems, systems architecture and design, software and systems engineering, and systems biology. Prof. Dori invented and developed Object Process Methodology (OPM), recently published in ISO 15926. He has authored and co-authored 100 publications, including papers and conference papers, books, and book chapters. He is co-editor of the book OPM: An Model-based Systems Engineering and related to this international conference and workshops. Among the editorial boards, Prof. Dori was Associate Editor of IEEE Transactions on Pattern Analysis and Machine Intelligence, and currently he is Associate Editor of Systems Engineering.

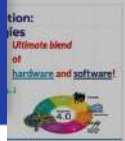


Fig. 2. Sample technologies that embody 4.0 features.



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The digital revolution is transforming the traditional engineering into the new digital engineering (DE) paradigm. DE has been defined as "an integrated digital approach that uses collaborative sources of systems' data and models at a continuum across disciplines to support lifecycle activities from concept through disposal." (ODASDE 2017). This definition includes both data and models, so it is in line with the spirit of MBSE with emphasis on the cross-disciplinary connection throughout the life-cycle of the system. The DE ecosystem features an interconnected infrastructure, along with a methodology for exchanging data, information, and knowledge in a digital form from an authoritative source of truth.

Yet, while modeling of software systems and hardware systems have been evolving in parallel, little effort to integrate software engineering with systems engineering has been made. Despite the growing adoption of MBSE and its emergence as a critical enabler of the digital revolution—the transformation into the DE paradigm, a recent cross-industry survey of MBSE maturity and adoption (McDonnell et al., 2020) has shown that MBSE is still perceived as immature.

# Blended Learning LIVE

The screenshot shows a Zoom meeting window. At the top, there is a toolbar with icons for chat, video, and audio. Below the toolbar, a row of participant thumbnails is visible, including Vanessa - Mentor (M), Co-host Div Dorji, Host Chris Gunnell - Aca..., Maple Li, Xintang Li, JunJie Wang, ZhiJian Zhuang, and DuD. The main content area displays a screen share of a webpage titled "OPM Resources". The webpage has a white header with the text "OPM Resources" and a green banner below it. The rest of the page is mostly greyed out. At the bottom of the Zoom window, there is a microphone icon and a mute button.

The screenshot shows a WeChat chat window titled "Blended Learning Live 072322(110)". The chat history includes several messages from participants. The first message is a photo of a building. The second message is "恭喜双彩虹!". The third message is "祝大家 二外大学 取得好成绩!". The fourth message is "期末考试之后的彩虹!". The fifth message is "祝大家 中国科技大学 取得好成绩!". The sixth message is "恭喜双彩虹!". The seventh message is "祝大家 北京交通大学 取得好成绩!". The eighth message is "祝大家 二外大学 取得好成绩!". The ninth message is "祝大家 北京交通大学 取得好成绩!". The tenth message is "祝大家 二外大学 取得好成绩!". The eleventh message is "祝大家 北京交通大学 取得好成绩!". The twelfth message is "祝大家 二外大学 取得好成绩!". The thirteenth message is "祝大家 北京交通大学 取得好成绩!". The fourteenth message is "祝大家 二外大学 取得好成绩!". The fifteenth message is "祝大家 北京交通大学 取得好成绩!". The sixteenth message is "祝大家 二外大学 取得好成绩!". The seventeenth message is "祝大家 北京交通大学 取得好成绩!". The eighteenth message is "祝大家 二外大学 取得好成绩!". The nineteenth message is "祝大家 北京交通大学 取得好成绩!". The twentieth message is "祝大家 二外大学 取得好成绩!".

# 2022

# Blended Learning LIVE

hhh抱歉早上上课没来得及回

对这个live的感觉呢我觉得很棒

教授们的思想和看法都非常深刻

教授也都深入浅出

同学们的反应和在群里面的聊天也非常有意思

能学到很多东西

希望以后还能有这个会再上一次这种课程

Yesterday 20:55

我感觉大部分课程能听懂60-70%，老师也非常热情，举了很多例子来帮助理解，偏文科一点的呢几乎全部能听明白，之前开字幕没发现还可以译成中文，就因为有些词汇的问题跟不上，不过边听边查的话可以记住要点，课后再来学习。我更希望每次课前老师在pre reading的基础上列出几个key words，这样检索起来更加方便。

还有课后小测验的方式挺不错滴，页面也很fancy，在我看来胜负欲更有利于好好听课，自我约束还是不够的

01:30

感觉很好-但是有的时候没时间看，就只能看回放了

我主要学金融还是对leadership很感兴趣哈哈哈哈哈

另外量子和机器学习方面感觉就是给我量化方面增加了很多见识，以前我对这些不是很了解，现在稍微有些概念了！

还有一点就是我之后打算出国嘛，所以适应这种外教环境的学习氛围对我确实很重要，感觉是提前适应一下了！

👍👍👍

首先在pre-readings上，课程组和教授们准备的材料具有相当的人文感

感觉很棒啊，教授们分享的内容基本上是我以前没什么了解的领域，拓宽了知识面，前前后后一节课可以花很久的时间慢慢思考体悟，然后同学们的分享也很有专业性，希望多开一些这样的课程吧！

哈哈，不好意思哇，最近有点小忙，才看到~

感觉很棒啊，教授们分享的内容基本上是我以前没什么了解的领域，拓宽了知识面，前前后后一节课可以花很久的时间慢慢思考体悟，然后同学们的分享也很有专业性，希望多开一些这样的课程吧！

我感觉课程超赞的👍👍👍，教授都有很深厚的功底，对各个主题讲的也很精细，顾问老师很好很细心👍👍；只是受限自己的英语听力水平👎，基本得回放的时候开慢点看字幕才好跟上教授的节奏

11:33

很专业，我感觉很棒，虽然大部分领域我并不了解，但是教授们的讲课非常棒，也很有趣，使我对授课内容产生了极大兴趣，虽然有时候听不清教授说的话，但是课程组的课程回放给了很大帮助，课程的时间安排不紧但很有序，上课流程也很开放、科学。

11:47

感觉很棒啊，教授们分享的内容基本上是我以前没什么了解的领域，拓宽了知识面，前前后后一节课可以花很久的时间慢慢思考体悟，然后同学们的分享也很有专业性，希望多开一些这样的课程吧！

# Certified SPOC

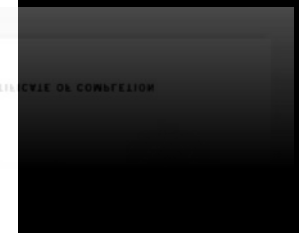
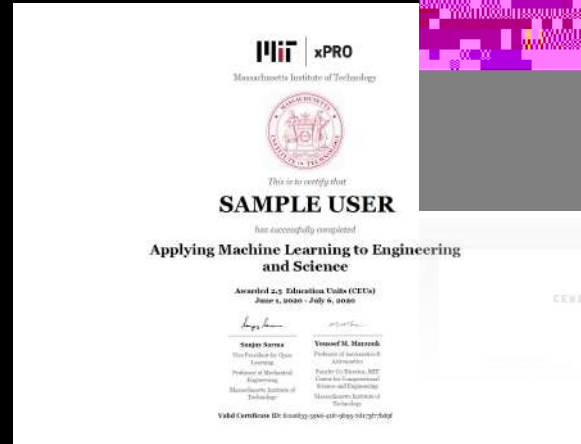
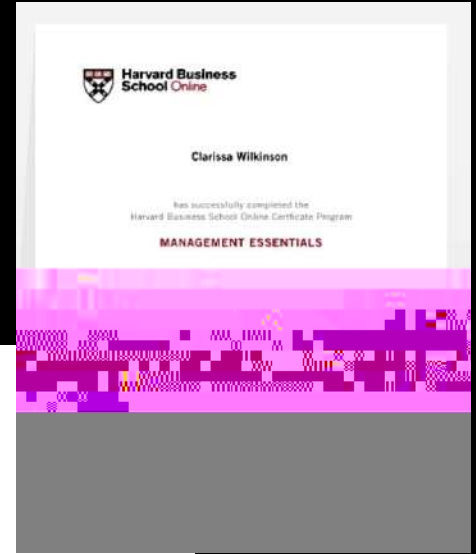
What is Certified SPOC

MIT/HBS

3-8

4

Academic Mentor  
Academic Coordinator



2022

SPOC

9

Available fields of programs for 2022

Advanced Manufacturing

Artificial Intelligence

Quantum Computing

Financial Technologies

Data Science

Innovative Entrepreneurship

Technical Leadership

Business Strategies

Management System





01. Subtitles and Speed Monitor

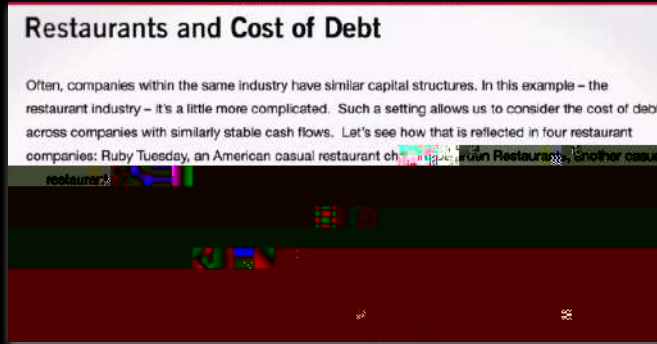


02. Learning Process Tracker

03. Discussion Panel

04. Assignments

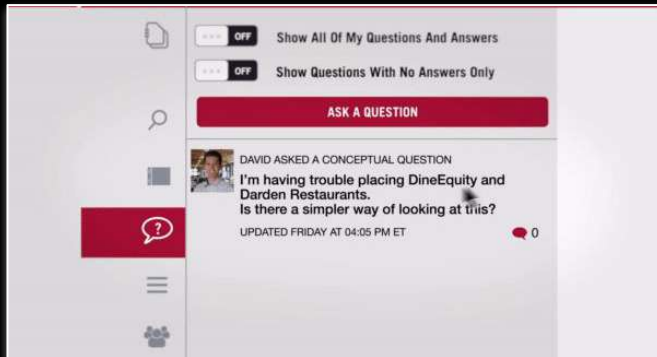




01. Case Studies



02. Networking



03. Discussion Panel



04. Assignments

# BLENDED LEARNING MBA

IN COLLABORATION WITH

Harvard  
Business  
School  
Online

## MBA

### MBA

*Gain authentic MBA know-how And Experience  
From HBS*

3  
1  
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1 HBS  
3 HBS  
1  
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1  
3

### MBA

Strategy  
& Finance & Accounting  
Leadership & Management  
Entrepreneurship & Innovation  
Business in Society

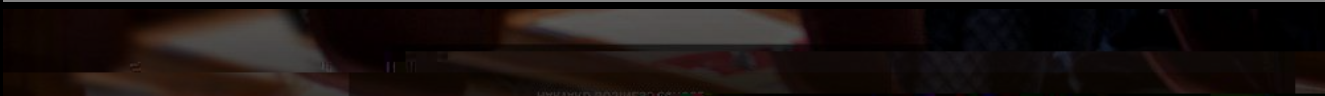


Harvard  
Business  
School



MBA

[FAQ](#) [INTRODUCE YOURSELF](#) [BLOG](#) [VISIT](#) [APPLY](#)



# Blended Learning MBA

5

## Strategy

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Strategy Execution

Economics for Managers

Sustainable Business Strategy

## Leadership & Management

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Management Essentials

Strategy Execution

Power and Influence for Positive Impact

## Business in Society

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Sustainable Business Strategy

Global Business

## Finance & Accounting

---

Leading with Finance: Making Financial Decisions

Financial Accounting

Alternative Investments: Grow Portfolio Value

## Entrepreneurship & Innovation

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Entrepreneurship Essentials

Disruptive Strategy

Design Thinking and Innovation

X  
Artificial Intelligence X Transportation

X  
Artificial Intelligence X Healthcare

X  
Artificial Intelligence X Materials

X  
Artificial Intelligence X Finance

X  
Artificial Intelligence X Technology

X  
Innovative Entrepreneurship X Entertainment

X  
Innovative Entrepreneurship X Management Consulting

X  
Innovative Entrepreneurship X Design

X  
Innovative Entrepreneurship X Finance

X  
Innovative Entrepreneurship X Technology

X  
Financial Technologies X Blockchain

X  
Financial Technologies X Banking

X ESG  
Business Strategies X ESG

X Games  
Business Strategies X Games

X  
Business Strategies X Technology

X  
Business Strategies X Environment

X  
Business Strategies X Management Consulting

X  
Data Science X Supply Chain

X  
Data Science X Entertainment

X  
Data Science X Psychology

X  
Data Science X Environment

X  
Data Science X Social Media

X  
Systems Engineering X Technology

X  
Quantum Computing X Technology

Course	Week	Start Date	End Date	Start Date	End Date
Base SPOC: Machine Learning, Modeling, and Simulation Principles	6	10/29	12/10	1/16	2/27
Advanced SPOC: Applying Machine Learning to Engineering and Science	6	10/29	12/10	1/16	2/27
Base SPOC: Introduction to Quantum Computing	4	10/3	10/31	1/23	2/20
Advanced SPOC: Quantum Algorithms for Cybersecurity, Chemistry, and Optimization	4	11/7	12/5	5/15	6/12
System Thinking	5	10/3	11/7	1/30	3/6
Architecture of Complex Systems	5	9/26	10/31	4/10	5/15
Models in Engineering	4	11/7	12/5	1/16	2/13
Model-Based Systems Engineering: Documentation and Analysis	4	4/24	5/22	6/26	7/24
Quantitative Methods in Systems Engineering	4	2/20	3/20	5/29	6/26
Technical Innovation	3	10/24	11/14	2/6	2/27
Understanding Organizational Strategy and Capabilities	4	10/3	10/31	2/13	3/13
Negotiating and Applying Influence and Power	3	11/7	11/28	3/20	4/10
Navigating and Leveraging Culture and Networks	3	1/9	1/30	4/17	5/8
Discovering and Implementing Your Leadership Strengths	3	2/6	2/27	5/15	6/5
Negotiating to Create Value: The Mutual Gains Approach	4	10/3	10/31		
Principles of Biomanufacturing: Using Biotechnology to Manufacture Medicines	6	9/5	10/17	1/9	2/20
Additive Manufacturing for Innovative Design and Production	12	9/19	12/12		

Course	Week	Start Date	End Date	Start Date	End Date
Business Analytics	8	10/12	12/7	2/8	4/5
Economics for Managers	8	9/28	11/23	2/22	4/19
Financial Accounting	8	10/19	12/14	1/18	3/15
Sustainable Business Strategy	3	9/14	10/5	11/9	11/30
Global Business	4	10/5	11/2	2/1	3/1
Disruptive Strategy	6	9/28	11/9	10/26	12/7
Entrepreneurship Essentials	4	9/28	10/26	1/25	2/22
Leading with Finance	6	9/28	11/9	1/25	3/8
Alternative Investments	5	10/5	11/9	2/1	3/8
Management Essentials	8	10/19	12/14	1/18	3/15
Strategy Execution	8	9/14	11/9	10/12	12/7
Power and Influence for Positive Impact	6	10/5	11/16	1/18	3/1
Design Thinking and Innovation	7	10/5	11/23	2/1	3/22

Hands-on Project	Start Date	End Date	Start Date	End Date
Algorithmic Trading - Bridgewater Project	9/19	11/13		
Intro to 3D Illustration - Pixar Project	9/19	11/13	1/23	3/19
Blended Reality - Solid Jellyfish Project	10/31	12/25	1/23	3/19
AI for New Frontiers in Energy and Environment - Shell Project	10/31	12/25	1/23	3/19
Natural Language Processing - Apple Siri Project	10/31	12/25		2/23
Intelligent Storage for Computing at the Edge of the Internet - Cisco Project	10/31	12/25	1/23	3/19
Business of Games - Nintendo Project	10/31	12/25	1/23	3/19
Technology Innovation and Its Relationship with Society - Intel Project	9/19	11/13		
Netflix PBL	12/12	2/5		
Empirical Research & Data Analytics in Operations Management - McKinsey Project	9/19	11/13		

Hands-on Project	Start Date	End Date	Start Date	End Date
Applying Entrepreneurial Theory to Build Better Startups - PayPal project	9/19	11/13	12/12	2/5
Innovation Management - Deloitte Project	9/19	11/13	12/12	2/5
Perspectives in Quantitative Finance - Morgan Stanley Project	10/17	12/11	2/6	4/2
Strategic Ownership - Walmart Project	10/17	12/11	2/6	4/2
Blockchain and AI in Financial Data Science - Galaxy Digital Project	9/19	11/13	2/6	4/2
Applied Psychology With Human Data - Neuralink Project	10/17	12/11	1/9	3/5
Machine Learning and Smart Transportation - Lyft Project	10/17	12/11	1/9	3/5
Pollution and Air Quality Analysis - GE Project	9/19	11/13		
Marketing for Social and Business Outcomes - BIT Project	1/9	3/5	1/9	3/5
Online Debate Models – Analyses, Metrics and Visualizations - Twitter Project	1/9	3/5	1/9	3/5
Computer Vision and Image Processing - Microsoft Project	2/27	4/23		
Machine Learning in Quantitative Finance - J.P. Morgan Project	9/19	11/13	1/23	3/19
AI: Machine Learning in Healthcare - Johnson & Johnson Project	10/17	12/11	2/27	4/23
AI: Deep Learning in Medical Imaging - Siemens Project	10/17	12/11	2/27	4/23
Exploring Placemaking in VR - Meta	10/17	12/11	2/27	4/23
Applied Quantum Algorithms - Psi Quantum Project	10/17	12/11		
Co-designing Quantum Computing Architecture - IBM Project	9/19	11/13		

Research Project	Start Date	End Date
Machine Learning in Quantitative Finance - J.P. Morgan Project	09/19	12/18
Computer Vision and Image Processing - Microsoft Project	02/27	05/28
Natural Language Processing - Apple Siri Project	04/17	07/16
Technology Innovation and Its Relationship With Society - Intel Project	09/19	12/18
Exploring Placemaking in VR Towards a More Inclusive Metaverse - Meta Project	02/27	05/28
Intelligent Storage for Computing at the Edge of the Internet - Cisco Project	01/23	04/23
Applied Quantum Algorithms - Psi Quantum Project	10/17	01/14
Co-designing Quantum Computing Architecture	9/19	12/27
Machine Learning and Smart Transportation - Lyft Project	01/09	04/09
Applied Psychology With Human Data - Neö a oject		



1.	09/08/2022	& /
2.	09/09/2022	
3. /	/ /2022	/
4. /	/ /2022	/
5. /	/ /2022	& /