**Experience University Research**

Winter 2023 Program Descriptions

January 30 – February 10

大学科研线上课程—2023寒假

1月30日-2月10日

Intro to Machine Learning & AI (Remote via Zoom)机器学习&人工智能导论（Zoom线上授课）

**Description:**This course introduces concepts and topics essential to Machine Learning and AI. Starting with a foundational understanding of machine learning models such as predictive analytics algorithms, logistic regression, artificial neural networks, and introductory natural language processing, students will also learn major concepts on the design, architecture, and applications of networks.  The course will focus on practical knowledge and skills through practice exercises and project work designed to teach students how to implement machine learning algorithms using real-world examples.  It is also the first course in the Machine and Deep Learning specialized studies certificate.

**课程描述：**本课程介绍人工智能和机器学习的基本概念和主题。从对机器学习模型(如预测分析算法、逻辑回归、人工神经网络和介绍性自然语言处理)的基本理解开始，学习有关网络设计、体系结构和应用的主要概念。课程将通过实践练习和专题作业，着重于实用知识和技能，旨在教学生如何使用现实例子实现机器学习算法。它也是机器和深度学习专业研究证书课程的第一门课程。

**Recommended for**: Undergraduates majoring in computer science or related fields

**招生对象：**计算机科学或相关专业的本科生

**Prerequisites:** [I&C SCI X426.59 Intermediate Python](https://ce.uci.edu/courses/sectiondetail.aspx?year=2021&term=FALL&sid=00123)or equivalent experience

**申请要求：**具有I&C SCI X426.59中级Python或相关经验

**Instructor:** Majed Al-Ghandour, Ph.D.

**讲师：**Majed Al-Ghandour, Ph.D.

**Schedule:** TBD – classes will be held sometime M-F, 09:00 – 12:00 China Standard Time

**时间安排：**北京时间，星期一-星期五，上午9:00-12:00

**Units:** 2.5 (25 hours)

**Fee:** $1250

**学费：**$1250

**Corporate Finance (Remote via Zoom)****企业金融（Zoom线上授课）**

**Description:**  This course introduces financial topics including time value of money with stock and bond applications, analysis of the capital asset pricing model, cash flow methods, and financial budgeting. Students will gain knowledge of fundamental topics in finance useful in evaluating investments and complex financial decision making.

**课程描述：**本课程介绍金融主题，包括货币时间价值与股票和债券的应用，资本资产定价模型的分析，现金流方法和财务预算。学生将习得金融方面的基础知识，有助于评估投资和复杂的财务决策。

**Recommended for:** Undergraduates majoring in business, economics, or related fields

**招生对象**：商科、经济学或相关专业的本科生

**Prerequisites**: None

**申请要求：**无

**Instructor:** Jason Gurtovoy, Ph.D.

**讲师**：Jason Gurtovoy, Ph.D.

**Schedule:** TBD – classes will be held sometime M-F, 09:00 – 12:00 China Standard Time

**时间安排：**北京时间，星期一-星期五，上午9:00-12:00

**Units:** 2 (20 hours)

**Fee:** $775

**学费：**$775

**Methods of Teaching English (Remote via Zoom)英语教学方法（Zoom线上授课）**

**Description:**  Explore current methods for teaching specific skill areas such as speaking, listening, reading and writing with an emphasis placed on communicative teaching techniques and theories. Develop lesson plans, materials and instructional aids for your classroom, and learn how to motivate your students to study and learn by using a wide variety of language games and techniques.

**课程描述：**探索当前教学特定技能领域如说、听、读、写的方法，重点放在交际教学技术和理论上。为你的课堂制定课程计划、教材和教学辅助工具，学习如何通过使用各种各样的语言游戏和技巧来激励学生学习。

**Recommended for:** Undergraduates and recent graduates interested in living in another culture before starting a new career or looking for a change of pace, and who have limited or no teaching experience.

**招生对象**：在开始新的职业生涯或寻求改变节奏之前，有兴趣在另一种文化中生活的本科生和应届毕业生，以及教学经验有限或没有教学经验的人。

**Prerequisites**: None

**申请要求：**无

**Instructor:** Judy Hu, MA

**讲师：**Judy Hu, MA

**Schedule:** TBD – classes will be held sometime M-F, 09:00 – 12:00 China Standard Time

**时间安排：**北京时间，星期一-星期五，上午9:00-12:00

**Units:** 2 (20 hours)

**Fee:** $625

**学费：**$625

**Instructor Biographies讲师介绍**

**Majed Al-Ghandour, PhD**

Dr. Majed Al-Ghandour has a PhD in Engineering from NC State University and teaches for UCI- Division of Continuing Education (DCE), NCSU, and Wake Technical Community College for over 24 years. Majed teaches several courses at UCI, Continuing Education including Introduction to Data Science, Data Engineering, and Introduction to Machine Learning, and Docker Fundamentals with AWS. Majed also teaches Data Analytics for MBA Graduates as a Visiting Lecturer for NCSU. He has extensive experience in data analytics, machine learning, and cloud computing.

Majed Al-Ghandour博士拥有北卡罗来纳州立大学工程博士学位，在UCI继续教育学院(DCE)、NCSU和Wake技术社区学院任教超过24年。Majed在UCI继续教育学院教授几门课程，包括数据科学导论、数据工程和机器学习导论，以及使用AWS的Docker基础。Majed还担任NCSU客座讲师，为MBA研究生教授数据分析。他在数据分析、机器学习和云计算方面有着丰富的经验。

**Jason Gurtovoy, Ph.D.**

Jason Gurtovoy is a Senior Economist and Data Scientist at REPSAS. He has worked in the Financial Services industry for over a decade in banking, investments, real estate, and as a consultant. He has 10+ years of experience teaching graduate and undergraduate courses in finance, economics, and data science. He has taught at UCI since 2017.

Jason Gurtovoy博士是REPSAS的高级经济学家和数据科学家。他曾在金融服务行业工作超过十年，从事银行、投资、房地产和顾问工作。他拥有10年以上的金融、经济学和数据科学研究生和本科课程教学经验。自2017年以来，他一直在UCI任教。

**Judy Hu, MA**

Judy Hu has two decades of teaching experience on three continents. She holds a bachelor’s degree in psychology with a minor in business administration, a certificate in e-learning instructional design, and master’s degree in education with concentration in teaching English to speakers of other languages. She has taught in UCI-DCE's intensive ESL program and TEFL accelerated certificate program as a teacher trainer.

Judy Hu在三大洲有20年的教学经验。她拥有心理学学士学位，辅修工商管理，电子学习教学设计证书，教育硕士学位，专注于向其他语言的人教授英语。她曾作为教师培训师在UCI-DCE的ESL强化课程和TEFL快速证书课程中任教。