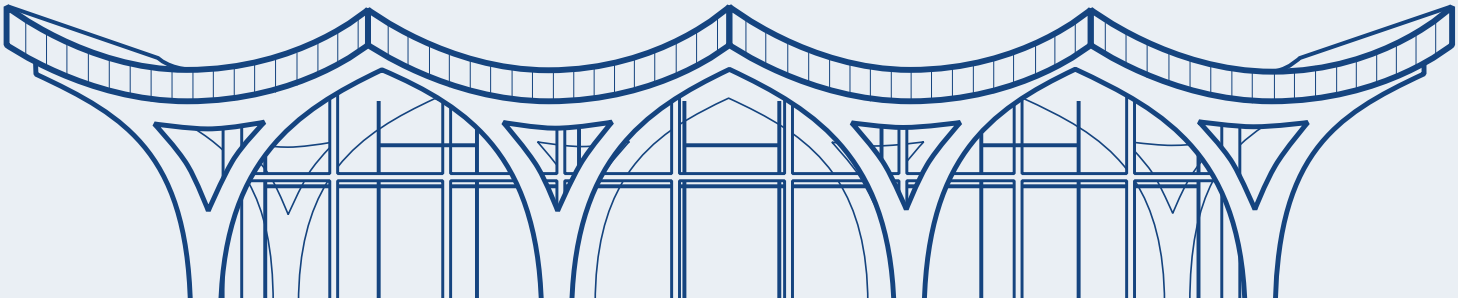
昆山杜克大学
DUKE KUNSHAN UNIVERSITY

2026 Duke Kunshan University Global Summer Institute

昆山杜克大学全球暑期学校



HIGH SCHOOL PROGRAMS 高中生项目

1. Personal Strengths for Global Futures
未来优势发展

2. Aspiring Mathematicians: From Calculation to Proof
未来数学家：从计算到证明

3. Science in Everyday Life
日常生活中的自然科学

4. Artificial Intelligence
探索人工智能

5. AI-powered Self-Driving
AI 赋能自动驾驶

6. Social Innovation Foundations
社会与创新

7. Climate Change and Sustainability
气候变化与可持续发展

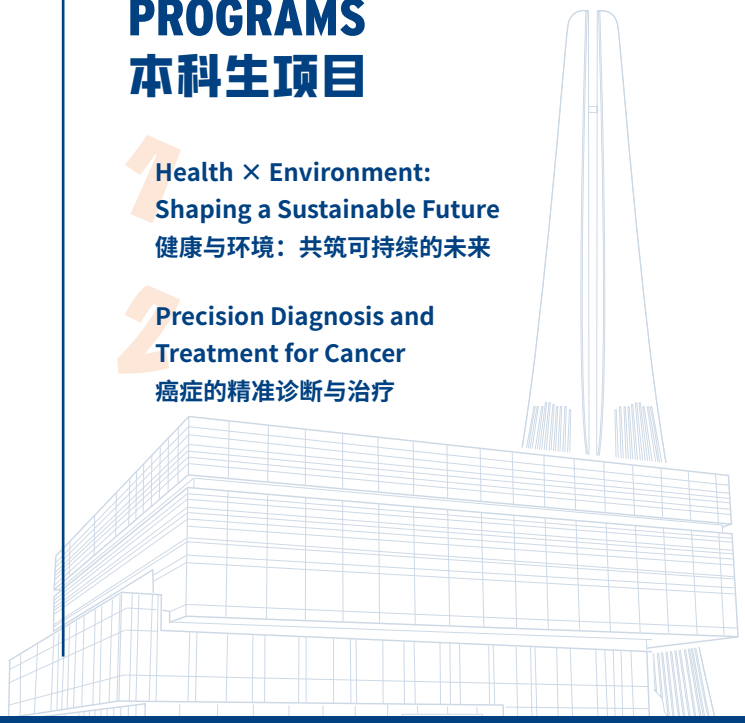
8. The Human Journey Into Space
人类进入太空的旅程

9. Creation of Virtual World
创意虚拟世界

UNDERGRADUATE PROGRAMS 本科生项目

1. Health × Environment: Shaping a Sustainable Future
健康与环境：共筑可持续的未来

2. Precision Diagnosis and Treatment for Cancer
癌症的精准诊断与治疗



APPLICATION REQUIREMENTS | 申请要求

Current High School Students
在读高中生

Current Undergraduate Students
在读本科生

APPLICATION MATERIALS | 申请材料

REQUIRED 必须提交

High School Transcript
(affix an official seal or the academic affairs department seal)
高中阶段成绩单（加盖学校公章或教务处章）

English Self-Introduction (max. 200 words)
英文自我介绍（不超过 200 词）

Official Undergraduate Transcript
本科阶段官方成绩单

Proof of English Proficiency
语言能力证明
CET4 / CET6 / TOEFL / IELTS

OPTIONAL 非必须提交

Proof of Extracurricular Activities and Honors
课外活动及荣誉证明材料

Other Supplementary Materials
其他补充材料

2026 APPLICATION DEADLINE | 2026 申请截止日期

Early Registration 早鸟申请

Chinese Students: April 30, 2026 (11:59 PM CST)
国内学生：2026 年 4 月 30 日 23:59（北京时间）

May 31, 2026 (11:59 PM CST)
2026 年 5 月 31 日 23:59（北京时间）

Regular Registration 正式申请

Chinese Students: June 20, 2026 (11:59 PM CST)
国内学生：2026 年 6 月 20 日 23:59（北京时间）

International Students: May 31, 2026 (11:59 PM ET)
国际学生：2026 年 5 月 31 日 23:59（美东时间）

June 30, 2026 (11:59 PM CST)
2026 年 6 月 30 日 23:59（北京时间）

PROGRAM TUITION
项目学费

High School Programs
高中生项目

Chinese Students
国内学生

Early Registration: 16,650 RMB/session
早鸟价：16650 元 / 期

Regular Registration: 18,500 RMB/session
常规价：18500 元 / 期

International Students
国际学生

Regular Registration: 2,950 USD/session
常规价：2950 美金 / 期

Undergraduate Programs
本科生项目

Early Registration: 6,750 RMB/session
早鸟价：6750 元 / 期

Regular Registration: 7,500 RMB/session
常规价：7500 元 / 期

ABOUT GLOBAL SUMMER INSTITUTE
关于昆山杜克大学全球暑期学校

Join the Global Summer Institute (GSI) at Duke Kunshan University and embark on an enriching and unforgettable learning journey!

加入昆山杜克大学全球暑期学校（GSI），
开启一段充实而难忘的学习之旅！

1. Experience an immersive one-week liberal arts education program
   亲身体验一周沉浸式全球博雅教育课程
2. Develop analytical, critical thinking, and communication skills
   提升锻炼分析、批判性思维与沟通能力
3. Engage in diverse and inspiring cross-cultural activities
   参与多元而丰富的跨文化活动
4. Earn a certificate of completion upon finishing the program
   成功完成课程的学生将获得项目结业证书

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

PERSONAL STRENGTHS FOR GLOBAL FUTURES

“Empower your voice. Shape your future. Lead with global vision.”

TIME
July 12 - 17

PROGRAM INTRODUCTION

The Personal Strengths for Global Futures program at Duke Kunshan University is designed for high school students eager to enhance their communication skills, explore future career paths, and understand key global issues shaping our world today. Through interactive workshops, team projects, and engaging discussions, participants will strengthen their abilities in public speaking, critical thinking, and self-expression. The program also introduces practical applications of AI tools, helping students better navigate the challenges and opportunities of the digital era. Guided by DKU faculty, students will gain valuable insights into university-level learning while discovering their unique strengths to become confident, forward-thinking global citizens.

PROGRAM HIGHLIGHTS

Interactive workshops focused on public speaking, career exploration, and global issues

Hands-on application of AI tools, immersive campus experiences, and collaborative learning environments

Discover the distinctive international academic enviroment at DKU through an immersive cross-cultural experience

LEARNING OUTCOMES

Critical Thinking and Innovation Ability

Through "21st Century Communication Skills" and "Debate the Case: Expressing Ourselves about Real-World Scenarios", students learn to think independently and stimulate innovative thinking.

Digital Literacy and Project Planning

By attending "Effective AI Use for All" and "Collaborative Project Planning", students master digital tools and enhance their project management and execution capabilities.

Cross-Cultural Communication and Organizational Leadership

In "Cross-Cultural Learning Skills" and "Organizational Leadership" courses, students cultivate a global perspective and exercise teamwork and leadership abilities.

Self-Awareness and Emotional Management

Participating in "Emotional Management, Handling Feedback and Preparation for the Future", students gain a deeper understanding of themselves and learn to manage their emotions effectively.

Career Planning and Goal Setting

Through the "Career Pathway to Success Workshop”, students clarify their personal goals and plan their future development directions.

CURRICULUM PLANNING

- 21st Century Keys to Communication
- Effective AI Use for All
- Developing Intercultural Learning Skills for Global Universities
- Career Pathway to Success Workshop

CONTACT US

Doris
0512-36657656
zd57@duke.edu

Kerry
0512-36657603
sy341@duke.edu

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

未来优势发展

“发现自我力量，塑造未来方向，拥抱世界视野。”

时间
7 月 12 – 17 日

项目介绍

“未来优势发展”暑期项目由昆山杜克大学为高中生特别设计，旨在帮助学生提升沟通表达能力，探索未来职业方向，并深入理解当下全球发展的关键议题。课程通过互动式工作坊、小组项目与主题讨论，培养学生的公众演讲、批判性思维与自我表达能力。同时，课程将引入 AI 工具的实践应用，帮助学生更好地应对数字时代的机遇与挑战。学生将提前体验大学式学习，发掘个人潜能，成长为具备全球视野与创新思维的未来青年领袖。

项目亮点

聚焦**公众演讲、职业探索**
与**全球议题**的
互动式工作坊

实践应用 AI 工具，
体验
团队合作式学习

沉浸式跨文化体验，
感受昆山杜克大学
独特的国际化学术氛围

学习成果

批判性思维
与创新能力

在“21 世纪沟通密钥”与“辩论案例研讨”中，学会独立思考，激发创新思维。

数字素养
与项目规划

通过“AI 有效使用讲座”与“协同项目规划”，掌握数字工具，提升项目管理与执行能力。

跨文化交流
与组织领导力

在“跨文化学习技能”与“组织领导力”课程中，培养全球视野，锻炼团队协作与领导能力。

自我认知
与情绪管理

参与“情绪管理与未来准备”，深入了解自我，学会有效管理情绪。

生涯规划
与目标设定

通过“成功职业路径工作坊”，明确个人目标，规划未来发展方向。

课程规划

- 21 世纪沟通密钥
- 高效运用人工智能
- 培养全球化大学的跨文化学习能力
- 未来职业发展工作坊

联系方式

邓老师
0512-36657656
zd57@duke.edu

余老师
0512-36657603
sy341@duke.edu

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

ASPIRING MATHEMATICIANS: FROM CALCULATION TO PROOF

"Beyond Calculations:
The Art of Mathematical Thinking"

TIME
July 12 - 17

PROGRAM INTRODUCTION

The program will expose students to rigorous mathematics proofs and provide an overview of several different central areas of mathematics, both pure and applied, building from simpler notions toward a glimpse of current research. In this program, students will be able to meet and learn from the world-class senior and junior mathematicians, and to study how to write rigorous proofs. The areas covered include pure mathematics like set theory, fractal geometry, probability, differential equations with applications to fluid dynamics and mathematical biology. Students will also get a chance to work in groups with mentors, to develop their mathematical abilities.

PROGRAM HIGHLIGHTS

- Beyond Calculations: The Art of Mathematical Thinking
- Learn from top mathematicians
- Focus on deep, rigorous reasoning
- Hands-on, collaborative learning
- research mentorship with instructors from top universities
- Bridges a key educational gap

LEARNING OUTCOMES

1. Be proficient in core proof techniques
2. Understand fundamental concepts in different mathematics areas
3. Solve unfamiliar problems with confidence and structured thinking
4. Build intuition for advanced, interdisciplinary topics in undergraduate math

CURRICULUM PLANNING

- Set theory
- Fractals
- Probability and Randomness
- Differential Equations

CONTACT US

Jocky
0512-36657724
qi.zhu@dukekunshan.edu.cn

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

未来数学家：从计算到证明

“超越计算：数学思维的艺术”

时间 7 月 12 – 17 日

项目介绍

本项目以严谨的数学证明为切入点，系统梳理纯数学与应用数学的核心领域，引导学生从基础概念逐步延伸至前沿研究。在这里，学生将跟随世界级数学家学习，掌握集合论、分形、概率、微分方程等理论数学，同时研习流体力学、生物数学等应用领域的证明方法。通过小组合作，学生将在导师全程指导下开展数学科研实践。提升其逻辑思维、批判性思维及英文学术表达能力，提前适应大学阶段学术要求，为未来发展筑牢坚实根基。

项目亮点

超越计算
数学思维的艺术

师资
顶级数学家授课

能力
培养严谨逻辑思维与证明能力

实践
顶尖大学导师指导科研项目

衔接
衔接高中与大学数学体系

学习成果

1. 学习严格的数学证明方法
2. 理解不同数学领域的基本概念
3. 能够对陌生问题运用严谨的数学思维，自信地分析与求解
4. 衔接赋能：建立高中数学与大学高等数学及跨学科内容之间的良好衔接

课程规划

- 集合论
- 分形分析
- 概率与随机
- 微分方程

联系方式

朱老师

0512-36657724

qi.zhu@dukekunshan.edu.cn

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

SCIENCE IN EVERYDAY LIFE

"Explore Everyday Science, Ignite Endless Curiosity"

TIME
July 19 - 24

PROGRAM INTRODUCTION

This program provides an opportunity for students to appreciate the intersection between disciplinary knowledge and daily life experience, including topics such as how do we hear and see, as well as how to extract DNA from your favorite fruit. By means of plenary lectures, small group discussions, hands-on labs as well as final presentations, prospective students will be exposed to liberal arts education at Duke Kunshan University and learn how to explore science in everyday life by themselves afterward. In the plenary session, students will be equipped with disciplinary knowledge in physics, chemistry, and biology for the following small group discussions on specific scientific topics in everyday lives as well as Do-It-Yourself labs. Those activities will be accompanied by a guided tour to research labs and an interactive program offered by the Zu-Chong-Zhi Math Center at DKU. On the final day, we will conclude the session with group presentations and discussions.

PROGRAM HIGHLIGHTS

- Learn how to formulate scientific questions from everyday life experience
- Investigating Bitter Taste Genes Using Molecular Biotechnology
- Investigating Surface Wettability of Different Materials in Daily Life Using a Contact Angle Goniometer
- Unraveling the Factors Affecting Sound Transmission via Physics knowledge

LEARNING OUTCOMES

- Master how core subjects (phy, chem, bio, math) apply to real scenarios
- Build Hands-On Lab Skills: Gain practical experience after professional guidance and scientific operations
- Learn to observe, analyze, and solve problems using scientific methods
- Learn how to prepare and deliver a professional presentation
- Develop teamwork via small-group discussions and English communication skills through final presentations of learnings

CURRICULUM PLANNING

Physics, Chemistry, and Biology

a. Theoretical Lectures
b. Hands-On Experiments
(Select two from three)

Mathematics

a. Theoretical Sessions
b. Interactive Activities

Research Lab Tour

Discussions & Final Presentations

CONTACT US

Lynsey
0512-36657697
DKU_DNAS_SummerAcademy@dukekunshan.edu.cn

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

日常生活中的自然科学

“探索日常科学，点燃无限好奇”

时间
7 月 19 – 24 日

项目介绍

本项目将带领学生探索学科知识与日常生活的奇妙交汇——从 " 人类如何听见与看见 " 的奥秘，到 " 从最爱水果中提取 DNA" 的实践。通过主题讲座、小组讨论、动手实验及成果展示，学生将深度体验昆山杜克大学的博雅教育，掌握在日常生活中自主探索科学的方法。在主题讲座中，学生将系统学习物理、化学和生物学科基础知识，为后续围绕生活场景展开的小组研讨与 DIY 实验奠定基础。活动期间还将安排研究实验室导览，以及昆山杜克大学祖冲之数学中心的互动课程。最终日的小组成果展示与集体讨论，将为这段探索之旅画上精彩句点。

项目亮点

- 探索如何从生活点滴中发现科学问题
- 利用分子生物技术探究人体苦味基因奥秘
- 利用接触角测量仪探究材料的表面润湿性对生活的影响
- 利用物理学知识揭秘声音传播的影响因素

学习成果

- 掌握核心学科（物理、化学、生物、数学）如何应用于日常生活
- 培养实践操作技能：在专业指导下通过科学操作积累实验经验
- 学习运用科学方法观察、分析和解决问题
- 学会构思并呈现具有吸引力的学术演讲
- 通过小组讨论培养团队合作精神，在学习成果展示中提升英文表达能力

课程规划

物理、化学和生物
a. 理论课程
b. 动手实验（三选二）

数学
a. 理论课程
b. 互动活动

科研实验室参观

小组讨论与成果展示

联系方式

李老师
0512-36657697
DKU_DNAS_SummerAcademy@dukekunshan.edu.cn

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

ARTIFICIAL INTELLIGENCE

"Your Summer Journey into AI Awaits —
Step into the World of Artificial Intelligence!"

TIME
July 19 - 24

PROGRAM INTRODUCTION

Artificial intelligence (AI) has surpassed human capabilities in numerous areas, from games like chess and Go to practical applications such as cancer detection. Its rapid development is transforming both industries and daily life. Building on this, the program offers high school students an opportunity to explore AI and its real-world applications across diverse scenarios. Instead of delving into complex theories, students will learn fundamental principles and gain hands-on experience. The course takes a modern approach, emphasizing emerging applications driven by recent breakthroughs in machine learning. By the end of the program, students will have a solid understanding of different AI modules and comprehend the "what, how, and why" of AI methods. Throughout the week, participants will apply their learning to real-world tasks, engage in coding examples and mini projects, and be inspired to explore the future of AI technology.

PROGRAM HIGHLIGHTS

:-) Beginner-Friendly
No prior programming or advanced math required; easily get started with AI

Expert Lectures
Face-to-face sessions with top AI and machine learning experts, learning the principles and insights behind AI technologies

Hands-On Projects
Work with real-world data and simulate practical scenarios to master AI tools and techniques

Collaborative Learning
Use advanced AI platforms, collaborate with peers, and enhance skills and leadership

Explore Cutting-Edge AI
Discover popular AI technologies like ChatGPT, DeepSeek, Midjourney, and Stable Diffusion

LEARNING OUTCOMES

- Develop a broad understanding of AI, including its core concepts and key applications
- Grasp the fundamental principles and common approaches of AI
- Learn how AI is applied in data analytics, computer vision, and natural language processing
- Enhance hands-on skills, teamwork, and critical thinking through case studies and project-based learning

CURRICULUM PLANNING

Introduction of AI
Fundamentals, Applications, Challenges and Social Impacts

AI in Computer Vision
Deep Learning Techniques, Convolution, Classification, Object Detection, Segmentation, Generative Tasks

AI in Natural Language
Text and Speech Data, Recurrent Neural Networks, Transformer, Sentiment Analysis, Machine Translation

Advanced AI Techniques
Reinforcement Learning, Graph Neural Networks, Geometric Deep Learning, AIGC, Large Language Models

CONTACT US

Ivy
0512-36657577
danyi.xu@dukekunshan.edu.cn

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

探索人工智能

“你的人工智能暑期探索之旅已开启！一起揭开AI的神秘面纱！”

时间
7 月 19 – 24 日

项目介绍

从棋盘对决到癌症检测，从智能助理到人形机器人，人工智能（AI）的魔力无处不在。这个暑假，面向高中生的 AI 探索之旅即将开启。学生将在生动的案例和实践操作中，深入浅出地认知并学习人工智能的基础理论和算法，了解机器感知和大语言模型等智能算法背后的奥妙。课程强调概念理解与动手实践，学生将全面了解不同的人工智能模块，并充分理解人工智能方法的三大核心问题：“是什么、怎么做、为什么”。通过本次暑期项目，学生不仅能建立人工智能基础的基本认知，还能亲身体验 AI 应用，激发对未来科技的探索热情。一起出发，踏上属于你的人工智能探索之旅！

项目亮点

新手友好
无需编程经验和高等数学，也能轻松入门 AI

专家讲座
与 AI 和机器学习顶级专家面对面，掌握 AI 技术背后的原理与见解

实践项目
利用真实数据，模拟实战场景，掌握 AI 工具与技术

协作学习
使用先进 AI 平台，与同伴合作实践，提升技能与领导力

探索前沿
了解 ChatGPT、DeepSeek、Midjourney、Stable Diffusion 等热门 AI 技术

学习成果

1. 建立人工智能的整体认知，了解核心概念与主要应用
2. 理解人工智能的基本原理与常见算法思路
3. 了解 AI 在数据分析、计算机视觉和自然语言处理等领域的应用
4. 通过案例与项目实践，提升动手能力、团队协作与思辨能力

课程规划

人工智能概论
基础理论、应用场景、挑战与社会影响

计算机视觉中的 AI
深度学习技术、卷积、分类、目标检测、分割与生成任务

自然语言处理中的 AI
文本与语音数据、循环神经网络、Transformer、情感分析与机器翻译

高级 AI 技术
强化学习、图神经网络、几何深度学习、AIGC 与大语言模型

联系方式

徐老师
0512-36657577
danyi.xu@dukekunshan.edu.cn

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

AI-POWERED SELF-DRIVING

"From Learner to Racer — Build Your Own AI Car!"

TIME
July 26 - 31

PROGRAM INTRODUCTION

Have you ever dreamed of building your own "smart" self-driving racing car? At Duke Kunshan University's AI-powered Self-Driving Summer Program, that dream can become a reality! Through AWS DeepRacer, a miniature self-driving racing car that can learn and evolve through machine learning, you will embark on an exciting AI journey from scratch! In this course, you will discover how self-driving cars make "smart" decisions on the road. You will get hands-on experience operating your own AWS DeepRacer, teaching it to stay in its lane, make sharp turns, and even compete in racing competitions! From assembling the car to fine-tuning its performance, you will experience the thrill of the track and the fascinating fusion of technology and speed!

PROGRAM HIGHLIGHTS

- Beginner Friendly & AI Exploration
- Teamwork & Racing Challenges
- Mentors Support & Skill Growth
- AWS Expert & Career Inspiration

LEARNING OUTCOMES

- Build a strong foundation in AI and machine learning while exploring their applications in self-driving.
- Apply reinforcement learning to design, train, and optimize self-driving models in a simulated environment.
- Enhance problem-solving and computational thinking through hands-on practice.
- Build leadership, teamwork, and innovation skills through group challenges ad competitions.

CURRICULUM PLANNING

- Intro of AI Fundamentals & Self-Driving Applications
- Python Basics
- Basic Machine Leaning & Reinforcement Learning for Self-Driving
- Build Your First Self-Driving Model: Training & Parameter Tuning

CONTACT US

Xiaorun Tian
0512-36657145
xiaorun.tian@dukekunshan.edu.cn

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

AI 赋能自动驾驶

“从新手到赛车手，打造你的AI赛车！”

时间
7 月 26 – 31 日

项目介绍

你有没有想过自己也能打造一辆“聪明”的自动驾驶赛车？在昆山杜克大学“AI 赋能自动驾驶”暑期项目中，这个想法将成为现实！通过 AWS DeepRacer—一款可以学习和升级的迷你自动驾驶赛车，你将从零基础开启一段充满乐趣与挑战的人工智能之旅！在这里，你将探索自动驾驶汽车如何通过机器学习在道路上做出“聪明”的决策。你将亲手操作自己的赛车，让它学会保持车道、精准转弯，甚至参加激烈的“竞速比赛”！从赛车搭建、模型训练，到参数调整与竞赛对决，你将全程沉浸在技术与速度的激情碰撞中。在不断试验与优化的过程中，你不仅能感受到突破极限的成就感，更能真正理解人工智能如何驱动未来出行。

项目亮点

- 零基础 AI 与自动驾驶体验
- 团队协作与竞赛挑战
- 资深助教与专业导师全程指导
- 亚马逊云科技专家指导与职业启发

学习成果

1. 夯实人工智能与机器学习的基础，理解其在自动驾驶中的实际应用。
2. 运用强化学习的基本概念，在模拟环境中设计、训练并优化属于自己的自动驾驶模型。
3. 通过动手实践、问题解决与模型迭代，全面提升分析思维与计算思维能力。
4. 在团队挑战与竞赛中，培养领导力、团队协作与创新思维。

课程规划

- 人工智能基础知识介绍及自动驾驶应用
- Python 编程基础
- 基础机器学习和强化学习用于自动驾驶
- 在模拟器中构建第一个自动驾驶模型：参数调整与模型训练

联系方式

田老师

0512-36657145

xiaorun.tian@dukekunshan.edu.cn

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

SOCIAL INNOVATION FOUNDATIONS

"Empowering Minds to Reimagine a Better Future."

TIME
July 26 - 31

PROGRAM INTRODUCTION

The Social Innovation Foundations Summer Program is not only a valuable immersive learning opportunity in a diverse environment, but also an experience with a unique perspective of combining social sciences and innovative thinking to shape the future's transformative forces. During the one-week summer program, students will delve deeply into the crises and challenges faced in key areas such as the environment, health, technology, human behavior, and media. The program will offer participants comprehensive and multi-faceted learning plus practice training through a variety of enriching program designs, including lectures and interactive workshops. More importantly, the program will utilize design thinking to stimulate students' analytical and innovative capabilities, empowering students to understand users' needs and challenges, and then generate effective solutions for emerging needs. In this program, students will learn how to conduct observations, accurately understand the problem, think innovatively, and ultimately propose insightful solutions.

PROGRAM HIGHLIGHTS

Understanding of Global Challenges

Gain a comprehensive understanding of the current global challenges in the fields of environment, health, technology, human behavior, and media. Develop an awareness of the interconnectivity between various social, economic, and political factors that contribute to these challenges.

Design Thinking Proficiency

Acquire a foundational understanding of design thinking methodology and its application in problem-solving. Apply design thinking stages - empathize, define, ideate, prototype, and test - to develop creative solutions to identified problems.

Collaboration Skills

Strengthen collaborative and team-working skills by working with peers from diverse backgrounds on a common project.

Innovative Solution Development

Strengthen collaborative and team-working skills by working with peers from diverse backgrounds on a common project.

Communication Skills

Enhance abilities to articulate ideas clearly and persuasively in both written and oral forms.

Personal Growth and Self-Reflection

Reflect on personal values, ethics, and the role of an individual in contributing to societal change.

LEARNING OUTCOMES

Analyze complex social and environmental challenges across key domains such as sustainability, health, technology, human behavior, and media from a multidisciplinary perspective.

Apply design thinking methodologies to identify user needs, generate creative ideas, and develop feasible solutions addressing real-world problems.

Demonstrate intercultural competence by engaging effectively with peers from diverse cultural and professional backgrounds.

Integrate social science knowledge with innovative approaches to envision and propose impactful, sustainable change initiatives.

Reflect on their own learning process and growth as future changemakers committed to social responsibility and innovation.

CURRICULUM PLANNING

- Design Thinking & Social Innovations: Empathy, Define, Ideate, Prototype
- Global Risks: Science, Technology, and Society
- Emotions and misinformation on social media
- Medical AI in Low- and Middle- Income Countries: Promises and Perils

CONTACT US

Harper
0512-36658718
zc178@duke.edu

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

社会与创新

“赋能创新思维，共筑可持续未来。”

时间
7 月 26 – 31 日

项目介绍

社会与创新暑期项目不仅是一次难得的跨文化学习机会，更是一次以社会科学与创新思维相结合、以塑造未来的变革力量为独特视角的体验。在为期一周的暑期项目中，学生们将深入探索环境、健康、技术、人类行为和媒体等关键领域所面临的危机与挑战。该项目将通过一系列丰富多彩的项目设计，包括专家讲座、互动研讨会等，为学生提供全方位、多角度的学习和实践体验。更重要的是，项目将利用设计思维方法，激发学生的分析和创新能力帮助学生从用户的角度出发，理解他们的需求和挑战，然后创造出满足这些需求的解决方案。在这里，学生将学习如何从观察开始，理解问题，创新思考，并最终创造出可行的解决方案。

项目亮点

了解全球挑战
全面了解当前在环境、卫生、技术、人类行为和媒体等领域所面临的全球挑战。充分认识到造成这些挑战的各种社会、经济和政治因素之间的相互联系

设计思维能力
获得对设计思维方法及其在解决问题中的应用的基础理解。应用设计思维阶段——共情、定义、构思、原型和测试——为已识别的问题开发创造性的解决方案

团队合作能力
通过与来自不同背景的同行进行共同项目的合作，提升团队合作技能

创新解决方案开发
在时间和资源的限制下，开发创新能力，并为选定的问题提供潜在解决方案

沟通技巧
提高以书面和口头形式清晰而有说服力地表达想法的能力

个人成长和自我反思
反思个人价值观、道德和个人在促进社会变革中的作用

学习成果

- 从多学科视角出发，分析可持续发展、健康、科技、人类行为和媒体等关键领域中复杂的社会与环境挑战
- 掌握并应用设计思维方法，识别用户需求，提出创新想法，并开发切实可行的解决方案来应对现实问题
- 在与来自不同文化和专业背景的同伴互动中，展现跨文化沟通与协作能力
- 将社会科学知识与创新思维相结合，构想并提出具有影响力且可持续的社会变革方案
- 对自身的学习过程与成长进行反思，树立作为未来社会创新者的责任意识与使命感

课程规划

- 设计思维与社会创新：共情、定义、探索创意、原型制作
- 全球风险：科学、技术与社会
- 社交媒体上的情绪及错误信息感知
- 低收入与中等收入国家下的医疗人工智能发展：预期与风险

联系方式

陈老师
0512-36658718
zc178@duke.edu

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

CLIMATE CHANGE AND SUSTAINABILITY

"Launch your green leadership growth plan"

TIME
July 26 - 31

PROGRAM INTRODUCTION

Climate change and its multiple consequences are among the most important challenges humanity needs to solve in the 21st century. Global warming and the reduction of biodiversity will impact our lives by creating extreme weather conditions, migration within and across countries, a lack of access to water, etc. To solve these issues, societies may need to rethink their relationship to the environment and restructure their economies. What is the current state of climate change, and how may it impact our lives in the next generations? What can governments, firms, and individuals do to reduce climate change and its broad impact? This summer school will discuss these questions and provide a general overview of the latest research and policy initiatives in the areas of climate change and sustainability. Students will participate in an immersive academic experience that will introduce them to Duke Kunshan University's interdisciplinary and innovative education. Students will participate in interactive lectures, discussions, online experiments, debates, and other innovative experiential learning activities. They will have the opportunity to develop their research, writing, and presentation skills via working on a policy research project guided by DKU professors.

PROGRAM HIGHLIGHTS

Faculty
globally renowned scholars

Learning Model
immersive international learning environment

Curriculum
engaging and interdisciplinary seminars across economics, public policy, political economy, and behavioral sciences

Academic Support
in-depth academic mentorship

LEARNING OUTCOMES

Identify key global challenges in the field of climate change and sustainable development, and analyze the underlying economic drivers, policy logics, and geopolitical factors.

Leveraging big data and geospatial information, analyze how corporate actions and technological innovations can contribute to climate action.

Employ causal inference methods integrated with artificial intelligence to scientifically assess the economic and financial impacts of climate policies.

Utilize experimental economics approaches to simulate multi-stakeholder decision-making behaviors and potential outcomes in climate negotiations.

CURRICULUM PLANNING

The Wandering Climate in the Past, Present, and Future

Economics and Financial Impacts of Climate Change

Climate Action as Strategic Interaction and Cooperation

CONTACT US

Andrea
0512-36657708
sx66@duke.edu

Aurora
0512-36657307
lj239@duke.edu

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

气候变化与可持续发展

“开启属于你的绿色领袖成长计划”

时间
7 月 26 – 31 日

项目介绍

气候变化及其多重后果是 21 世纪人类需要应对的最严峻挑战之一。全球变暖与生物多样性丧失将通过引发极端气候事件、国内与国际人口迁移、水资源短缺等一系列问题，持续冲击人类社会的生存与发展。应对这些挑战，亟需全社会重新审视自身与自然的关系，并对现有经济结构进行系统性重塑。当前全球气候变化的实际状况如何?它将在未来几代人的生活中带来怎样的深远影响?政府、企业与个人应分别采取哪些行动，以缓解气候变化及其所产生的连锁效应?本次暑期学校将围绕上述关键问题展开深入探讨，并对气候变化与可持续发展领域的最新科研进展和政策实践作出系统梳理。学员将融入沉浸式学术氛围，亲身感受昆山杜克大学所倡导的跨学科创新教育模式。通过参与互动讲座、专题研讨、线上模拟、辩论赛等多种形式的创新实践教学，学员将在昆山杜克大学教师的指导下，完整参与一项研究课题，从而有效提升自身的研究能力、学术写作与表达水平。

项目亮点

师资
全球顶尖学者

教学模式
全英文沉浸式
国际课堂

课程
从经济学、公共政策、政治经济学、
行为科学跨学科领域进行深度研讨

学术指导
学业规划
与指导

学习成果

识别气候变化与可持续发展领域的关键全球性挑战，剖析其背后的经济动因、政策逻辑与地缘政治因素

基于大数据与地理信息数据，分析企业与科技创新如何助力气候行动

基于因果推断方法结合人工智能，科学识别气候政策的经济与金融效果

运用实验经济学分析方法，模拟气候谈判行动下的多方互动决策行为与潜在后果

课程规划

过去、现在与未来的游荡气候

气候变化的经济与金融后果

战略互动与合作的气候行动

联系方式

徐老师
0512-36657708
sx66@duke.edu

刘老师
0512-36657307
lj239@duke.edu

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

THE HUMAN JOURNEY INTO SPACE

"Explore the human journey into space using the humanities, arts, and sciences"

TIME
August 2 - 7

PROGRAM INTRODUCTION

This proposed summer program for high school students introduces students to the interdisciplinary field of space studies. Space studies at DKU is an interdisciplinary field that integrates astronomy, cosmology, philosophy, art, and literature. It examines the complexities of outer space exploration and its interaction with broader realms of human activity. In the program, students explore the nature of the observable universe, and examine the cultural and scientific impacts of space exploration. Space studies is a multidisciplinary field built for curious minds who want to connect science with real-world discovery. Weather permitting, students will also learn astronomical observing at the DKU observatory.

PROGRAM HIGHLIGHTS

An Invitation to Einstein's Universe

Gain a basic understanding of our fundamental theory of the universe and the beautiful mathematics of spacetime, in the sessions on *Gravity and Light: A History of Einstein's Theory* and *On Hills and Dales: Mathematics of Gravitational Lensing*

Observing the Wonders of the Universe

learn about observational astronomy and one of its most important recent breakthroughs, in the sessions on *Astronomical Observing and Duke Kunshan Observatory and A New Sky: From Gravitational Waves to AI*

Stargazing & Observational Astronomy

Stargazing and Cosmos-Cinema: explore the rich history of cinematic exploration of space and cosmos-metaphors of the cinematic art; understanding the basics of montage

Fieldwork: Document observations through sketches, hands-on montage and/or photography for a class exhibition

Human Perspectives on Space

Analyze *The Autobiographies of Astronauts alongside Chinese and Anglophone Science Fiction* and *Cosmology in Traditional Chinese Philosophy* to compare scientific and cultural narratives. Explore the connection between "the *text* of the Cosmos" (astronomy or 天文) and "the *text* of humanities (人文)

Group Project: Create a short film or podcast exploring how different cultures imagine space exploration

Global Astroculture
(optional 5th highlight)

Debate *Astroculture in Global Perspective* through case studies (e.g., NASA's Mars missions vs. China's lunar program)

Panel Discussion: Feature students presenting on space ethics, colonialism, or art inspired by the cosmos

LEARNING OUTCOMES

Develop interdisciplinary critical thinking by analyzing space exploration through scientific, philosophical, and cultural lenses

Gain insight into the current theoretical understanding of the universe and the frontier of astronomical observations

Articulate connections and tensions between theoretical concepts and empirical investigations in modern astronomy

Synthesize insights from different perspectives (e.g., science fiction, cosmologies, cinema) in group projects

Articulate connections between theoretical concepts (e.g., montage, astronomy- 天文 and humanities 人文 ,) and real-world applications (e.g., short-film making through montage, AI in astronomy)

CURRICULUM PLANNING

- Gravity and Light: A History of Einstein's Theory
- A New Sky: From Gravitational Waves to AI
- On Hills and Dales: Mathematics of Gravitational Lensing
- Astronomical Observing at Duke Kunshan Observatory
- The Autobiographies of Astronauts
- Science Fiction
- Cosmology in Traditional Chinese Philosophy
- Cosmos Cinema
- Astroculture in Global Perspective

CONTACT US

Aurora
0512-36657307
aurora.liu@dukekunshan.edu.cn

Ruiyue
0512-36657317
ruiyue.ma@dukekunshan.edu.cn

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

人类进入太空的旅程

“运用人文、艺术与科学，探索人类的太空之旅”

时间
8月2–7日

项目介绍

本暑期项目面向高中生，介绍太空研究这一跨学科领域。昆山杜克大学的太空研究是一门整合了天文学、宇宙学、哲学、艺术与文学的综合学科。它探讨外太空探索的复杂性及其与人类活动更广泛领域之间的互动。在本项目中，学生将探索可观测宇宙的本质，并研究太空探索对文化与科学的影响。太空研究是一门为好奇心旺盛、希望将科学与现实世界发现相联系的学生量身打造的跨学科领域。如天气条件允许，学生还将于昆山杜克大学天文台学习天文观测。

项目亮点

走进爱因斯坦的宇宙

在“引力与光：爱因斯坦理论的历史”以及“重力透镜的起伏：引力透镜的数学”课程中，获得对宇宙基本理论及时空之美的初步理解

观测宇宙奇观

在“天文观测与昆山杜克大学天文台”及“新天空：从引力波到人工智能”课程中，学习观测天文学及其最新重要突破

观星与天文观测

观星与宇宙影像艺术：探索电影艺术中关于太空探索与宇宙隐喻的丰富历史，并了解蒙太奇基础

实地学习

通过素描、手工蒙太奇制作和 / 或摄影记录观测成果，并用于课堂展示

人类视角中的太空

分析《宇航员自传》，并结合中英文科幻文学及中国传统哲学中的宇宙观，对比科学叙事与文化叙事。探索“宇宙之文（天文）”与“人文之文”之间的关联

小组项目

制作一部短片或播客，探讨不同文化如何想象太空探索

全球太空文化（可选）

通过案例研究（如美国 NASA 火星任务 vs. 中国探月工程），辩论“全球视野下的太空文化”

专题座谈

学生就太空伦理、殖民主义或受宇宙启发的艺术展开展示与讨论

学习成果

- 通过科学、哲学与文化视角分析太空探索，培养跨学科的批判性思维能力
- 理解当前关于宇宙的理论框架以及天文观测前沿动
- 能够阐述现代天文学中理论概念与经验探索之间的联系与张力
- 在小组项目中综合不同视角（如科幻、宇宙观、电影等）的见解
- 能够清晰表达理论概念与现实应用之间的关联（如通过蒙太奇制作短片、人工智能在天文学中的应用）

课程规划

- 引力与光：爱因斯坦理论的历史
- 新天空：从引力波到人工智能
- 重力透镜的起伏：引力透镜的数学
- 昆山杜克大学天文台天文观测
- 宇航员自传
- 科幻文学
- 中国传统哲学中的宇宙观
- 宇宙电影
- 全球视野下的太空文化

联系方式

刘老师
0512-36657307
aurora.liu@dukekunshan.edu.cn

马老师
0512-36657317
ruiyue.ma@dukekunshan.edu.cn

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

CREATION OF VIRTUAL WORLD

"Explore, create, and innovate across the virtual world"

TIME
August 2 - 7

PROGRAM INTRODUCTION

This program provides an opportunity for students to expose themselves to the world of digital media, covering virtual reality (VR), augmented reality (AR), mixed reality (MR), 2D digital arts creation, 3D modeling, animation, and AI's application in the digital media. The course begins by laying the foundational knowledge of AR, VR, and MR, exploring how these technologies blur the lines between the real and virtual worlds. Students will learn about the principles of design and evaluation for interactions between humans and computers, as well as the interplay between physical and virtual spaces. This exploration will be supported by hands-on experience with state-of-the-art devices such as HTC Vive, Meta Quest 3 and Pico 4 Ultra. Through a combination of plenary lectures, small group discussions, interactive lab sessions, and final presentations, students will develop both theoretical understanding and practical skills. The program emphasizes collaborative learning and creative problem-solving, reflecting the core values of liberal arts education at Duke Kunshan University. By engaging with this diverse curriculum and utilizing cutting-edge tools, students will gain insights into the full spectrum of the virtual world, preparing them for future endeavors in the dynamic and interdisciplinary field of digital media.

PROGRAM HIGHLIGHTS

Learning through Interaction

Students will actively interact with teachers in the classroom or laboratory to develop their hands-on skills on the creation of virtual world. They will be encouraged by teachers to ask questions and interact with other students too

Learning through Co-creation

Students will create their own virtual world with the guidance of teachers by using the cutting-edge tools. Moreover, students will interact with the latest AI tools to create the digital arts that otherwise are hard to imagine

Extended Learning

the program plans to arrange for students to visit digital media companies or relevant organizations. Through on-site visits, students will gain an in-depth understanding of industry practices in virtual world creation, thereby broadening their professional horizons.
(Note: The visit arrangements will be finalized based on actual circumstances.)

LEARNING OUTCOMES

- Gain the fundamental knowledge in digital media and their real-world applications.
- Grasp the key technologies behind the creation of virtual world.
- Develop practical skills in designing, creating and interacting with the virtual world.
- Understand the ethical and societal implications of digital media technologies.
- Cultivate teamwork and communication skills through group discussions and collaborative projects.

CURRICULUM PLANNING

- Foundations of Immersive Media
- 3D Design and Modeling
- Virtual World Building
- AI and Creative Media

CONTACT US

Yuxuan
0512-36657859
yuxuan.gao@dukekunshan.edu.cn

Jocky
0512-36657724
qi.zhu@dukekunshan.edu.cn

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

创意虚拟世界：科技与艺术的融合

“探索虚拟世界，创造无限可能。”

时间 8 月 2 – 7 日

项目介绍

本项目旨在带领学生迈入充满活力、跨学科的数字媒体领域，学习及体验虚拟现实 (VR)、增强现实 (AR)、混合现实 (MR)、二维数字艺术创作、三维建模、动画以及人工智能在数字媒体中的应用。本课程将从构建 AR、VR 及 MR 的基本知识入手，揭秘阿凡达、功夫熊猫等 3D 大片背后的理论基础，探究物理空间与虚拟环境之间的相互作用，学习人机交互系统的设计及人工智能的基本原理。理论方面我们将通过全体讲座、小组讨论、实验课程和分组展示等形式进行。实践方面，学生将（1）运用软件打造自己专属的虚拟世界；（2）运用先进的人工智能技术创作自己的数字艺术作品；（3）体验 Apple Vision Pro、HTC Vive 和 Meta Quest 等前沿设备，沉浸于充满挑战与乐趣的虚拟世界来感受科技的魅力；（4）企业参访：实地考察数字媒体公司，观摩虚拟世界创作流程，拓宽行业视野（具体安排待定）。

项目亮点

交互式学习

学生将在课堂或实验室中与老师积极互动，借此增强其在虚拟世界创作领域的实践能力。同时，老师积极鼓励学生提问，并与其他同学展开互动

共创式学习

学生将在老师指导下，运用前沿工具打造自己专属的虚拟世界。此外，学生还将与最新的人工智能技术互动，共同创作出独具创意的数字艺术作品

沉浸式学习

学生将借助当下最先进的 VR、AR 和 MR 设备，深入探索和沉浸于充满挑战与乐趣的虚拟世界，掌握基础理论知识及核心技能

外延式学习

本项目拟安排学生参观数字媒体公司或相关组织，通过实地考察深入了解虚拟世界创作的行业实践，以此拓展专业视野。（注：参观安排将根据实际情况确定）

学习成果

1. 掌握数字媒体的基础知识及其实际应用
2. 了解构建虚拟世界背后的关键技术
3. 培养设计、创建及与虚拟世界交互的实用技能
4. 理解数字媒体技术在伦理与社会方面的影响
5. 通过小组讨论和协作项目培养团队合作和沟通能力

课程规划

- 沉浸式媒体基础
- 3D 设计与建模
- 虚拟世界构建
- 人工智能与创意媒体

联系方式

高老师
0512-36657859
yuxuan.gao@dukekunshan.edu.cn

朱老师
0512-36657724
qi.zhu@dukekunshan.edu.cn

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

HEALTH X ENVIRONMENT: SHAPING A SUSTAINABLE FUTURE

"Think Globally, Act Sustainably — Where Health Meets the Environment."

TIME
July 19 - 24

PROGRAM INTRODUCTION

The five-day program brings together the fields of global health and environmental policy to help you understand how these two areas work hand in hand to address today's sustainability challenges. Developed from Duke Kunshan University's acclaimed Master of Global Health (GH) and international Master of Environmental Policy (iMEP) programs, it offers an immersive learning experience that connects health, environment, and sustainability.

The first two days focus on global health, exploring public health systems, drives of health equity, and how climate change reshapes human well-being. Through an interdisciplinary lens, you will uncover the dynamic links between health and the environment. The following two days focus on environmental policy, covering governance, pollution, and innovative strategies for building a sustainable future. Through interactive lectures, hands-on workshops, and team-based leadership projects, you will apply your learning to real-world cases. By the end of the program, you will collaborate with peers to develop innovative policy solutions and experience the power of interdisciplinary collaboration in shaping a sustainable future.

PROGRAM HIGHLIGHTS

- Combination of Global Health & Environmental Policy
- Exploring Health & Environmental Sustainability
- Interactive Workshops & Policy Simulations
- Team-based Leadership & Policy Innovation Projects
- Exposure to Graduate-level Learning & DKU's Global Academic Community

LEARNING OUTCOMES

- Gain a systems-thinking perspective on the links between health and environment.
- Understand policy mechanisms that shape sustainable and equitable outcomes.
- Develop analytical, communication, and leadership skills for cross-sector collaboration.
- Apply theory to practice through policy design and simulation exercises.

CURRICULUM PLANNING

- Public Health
- Healthy Ageing
- Non-Communicable Diseases Control
- Climate Change/ Sustainable Futures
- The Health Impacts of Environmental Policy and Governance

CONTACT US

Xiaorun Tian
0512-36657145
xiaorun.tian@dukekunshan.edu.cn

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

健康与环境：共筑可持续未来

“放眼世界，共创可持续未来—当环境携手健康”

时间 7 月 19 – 24 日

项目介绍

本课程面向本科生开放，为期五天，带你走进全球健康与环境政策的交汇点，探索它们如何相互作用，共同应对当今世界最紧迫的可持续发展挑战。课程融合了昆山杜克大学的两个硕士项目：全球健康理学硕士与环境政策硕士，为你提供一次关于人类健康、环境与可持续政策设计的沉浸式学习体验。在课程的前两天，你将聚焦全球健康议题，了解公共卫生体系、健康公平以及气候变化带来的健康风险；在跨学科衔接环节中，你会看到健康与环境之间的相互作用与复杂联系；接下来的两天，你将转向环境政策领域，探讨环境治理、环境污染、可持续未来等前沿话题。

项目亮点

- 全球健康和环境政策领域教学与研究优势的融合
- 探索健康与环境可持续性
- DKU 教授主导的互动工作坊与政策模拟
- 领导力与创新政策实践的团队项目
- 研究生层次学习与 DKU 国际化学术社区体验

学习成果

1. 形成理解健康与环境关联的系统思维视角
2. 掌握推动可持续与公平发展的政策机制与分析框架
3. 提升跨学科协作中的沟通与领导力技能
4. 通过政策设计与模拟实践将理论应用于现实问题

课程规划

- 公共卫生
- 健康老龄化
- 非传染性疾病控制
- 气候变化 / 可持续未来
- 环境政策与治理的健康影响

联系方式

田老师

0512-36657145

xiaorun.tian@dukekunshan.edu.cn

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

PRECISION DIAGNOSIS AND TREATMENT FOR CANCER

"Redefine Cancer Care with Physics and AI"

TIME
August 2 - 7

PROGRAM INTRODUCTION

The Precision Diagnosis and Treatment for Cancer program is organized by Medical Physics Graduate Program of Duke Kunshan University and its principal faculty team, aiming to provide students with an opportunity to explore the field of applying science and technology to cancer diagnosis and treatment and the field of medical physics. Medical physics is an emerging interdisciplinary field that integrates physics, engineering, biology, medicine, and computer science to address the critical needs in healthcare. Here, students can transform their knowledge in science and engineering into interdisciplinary expertise in combating cancer and other diseases.

PROGRAM HIGHLIGHTS

Immersive exploration of application of medical physics in precision cancer treatment, including modern medical imaging, cancer radiation therapy, fundamentals of radiation physics and radiobiology, AI applications in cancer diagnosis and treatment, and advanced radiotherapy techniques.

Direct engagement with internationally renowned academic mentors and leading experts in the field, offering firsthand exposure to the intellectual appeal of medical physics.

Hands-on experience in cancer radiotherapy and medical imaging practice, including face-to-face interactions with frontline radiation oncologists and medical physicists, addressing career development questions.

Specialized academic English workshops led by international professors specializing in language education, enhancing academic English proficiency and fostering familiarity with an international university environment.

Scholarships: Students who apply and are admitted to the Fall 2026/27 Medical Physics (MP) graduate program will be eligible for exclusive scholarships from the Global Summer Institute.

LEARNING OUTCOMES

Develop core skills in AI and biomedical research
Learn basic theory and applications, understanding how AI supports diagnosis, treatment, and precision medicine.

Enhance research and critical thinking abilities
Strengthen scientific reasoning, analytical judgment, and data interpretation skills to address complex research questions.

Foster interdisciplinary collaboration and academic communication skills
Collaborate with peers from diverse academic backgrounds and present research outcomes through a final group presentation, improving teamwork and scholarly communication.

Broaden global perspectives and academic exchange
Engage in meaningful discussions with international professors and peers, gaining exposure to cutting-edge research ideas and global learning experiences.

Earn academic recognition and future development opportunities
Outstanding participants may receive recommendation letters from professors in recognition of their research ability, teamwork, and academic potential.

CURRICULUM PLANNING

- Diagnostic Imaging
- Radiation Therapy
- Nuclear Medicine
- AI in Cancer Diagnosis and Treatment

CONTACT US

Yifan Hong
0512-36658759
yifan.hong@dukekunshan.edu.cn

昆山杜克大学
DUKE KUNSHAN UNIVERSITY

癌症的精准诊断与治疗

“用物理与人工智能重新定义癌症治疗”

时间
8 月 2 – 7 日

项目介绍

癌症的精准诊断与治疗营是由昆山杜克大学医学物理理学硕士项目及其主要教授团队举办的，旨在为学生们提供一个深入探索医学 物理领域的良好机会。医学物理是一个新兴的交叉学科，它整合了物理学、工程学、生物学、医学和计算机科学，以 解决人类健康方面的需求。在这里，学生们可以将他们在多学科的科学、工程方面的知识转化为对抗癌症和其他疾病的跨学科专业知识。

项目亮点

- 沉浸式体验医学物理在癌症精准治疗中的应用：包括现代医学影像、癌症放射治疗、放射物理基础、放射生物基础、人工智能在癌症诊疗中的应用、高等放疗等
- 接触国际知名学术导师，跟随行业前沿大牛，充分感受医学物理的学科魅力
- 了解癌症放疗与医学影像实操，与一线放疗科医生和物理师面对面交流，解答自我职业规划的困惑
- 开设极具特色的学术英语学习工作坊，由专业英语语言教学外籍教授讲授学术英语课程，感受国际化大学的学术氛围，提升英语学术写作与报告能力
- 奖学金：申请并录取 26/27 秋季医学物理硕士项目，还将获得全球暑期学校专属奖学金

学习成果

掌握人工智能与医学研究的核心技能
理解 AI 在癌症诊断、治疗与个性化医疗中的实际应用

提升科研与批判性思维能力
培养科学分析、逻辑判断与数据解读能力，能够以科研思维解决复杂问题

增强跨学科协作与学术表达能力
与不同学科背景的同伴合作完成研究项目，并通过小组汇报展示成果，提升团队沟通与学术演讲水平

拓展国际化视野与学术交流能力
与来自全球的教授和学生进行深度交流，获取前沿科研视角与学术灵感

获得学术认可与发展机会
表现优异者可获得教授的推荐信，以表彰其在科研能力、团队合作与学术潜力方面的杰出表现

课程规划

- 诊断影像学
- 放射治疗
- 核医学
- 癌症诊疗中的人工智能

联系方式

洪老师
0512-36658759
yifan.hong@dukekunshan.edu.cn

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邓老师 Doris (0512) 3665 7656
余老师 Kerry (0512) 3665 7603

dku-gsi@dukekunshan.edu.cn

https://gsi.dukekunshan.edu.cn

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