



Oxford Prospects and  
Global Development  
Institute



# 牛津展望计划

2021 Online Programme



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### 四周导师辅导制课程

#### Tutorial Online Programme

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牛津大学是英语世界国家中最古老的大学，创建历史可追溯至十一世纪末。2017-2021年连续五年蝉联全球排名第一。牛津大学拥有雄厚的师资力量，其教职队伍中有83位皇家学会会员和125位英国科学院院士。近900年的校史中，牛津于各个领域培养了許多杰出领袖，包括6位英国国王、28位英国首相、多位外国政府首脑、50余位诺贝尔奖获得者和一大批世界著名的文学家和科学家，在诸多领域引领着世界最前沿的科学研究。

牛津大学摄政学院牛津全球发展与展望研究院（OPGDI）与学术界同仁团结一致。在这充满不确定的时期，全球共识和相互知识交流比以往任何时候都更为重要，OPGDI的首要任务是给我们的海外合作伙伴和学生持续不断地提供高质量的学习资源和学术服务，巩固和稳定其与海外合作伙伴和学生之间建立的，长期稳定且卓有成效的合作关系。为此，OPGDI特别筹备在线课程，有幸组织数位英国四大学术院的国家院士为模块领衔教授，为来自精心挑选的一流中国合作高校的优秀学生而设计，以鼓励学生申请牛津大学注册访问学生课程（VSP），硕士课程及博士研究。

本次核心课程为期三周，另设导师辅导制（Tutorial System）学术辅导课程，需单独提出申请。

### 项目课程亮点

- ✓ 英国国家院士主持并亲授课程，牛津教授学者师资队伍
- ✓ 适于有意向申请牛津、剑桥等世界顶尖大学的学生
- ✓ 触及最高学术成就，探索专业领域最前沿
- ✓ 跨学科式独特教学风格，强化辩证思维及独立研究能力
- ✓ 特邀负责招生面试的教授，详析访问生及硕博申请要点
- ✓ 与顶尖学者互动，规划学术界、工业界的职业发展方向
- ✓ 直播授课，同步录制，便于回放复习

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## 基本信息

**课程时间：**2021年1月25日-2021年2月9日（三周课时量）

**课程结构：**课程将由学术交叉课程，小班研讨会，拓展工作坊，独立研究学习组成。

**授课形式：**所有课程均为直播授课，同步录制，便于回放复习。

通过课程交互系统及课程交流群组，提供 Reading Materials，分享 Lecture Notes。

**课程费用：**三周课程原费用为 1650 英镑，因新冠疫情，牛津展望计划办公室为国内长期紧密合作的伙伴高校申请学生减免此次部分费用。

（减免后）实缴费为：1050 英镑（约 9000 元人民币）

**考核评估：**由 a) 每周测验, b) 结业报告, c) 小组作业展示, d) 考勤出席等进行综合评定。

**课程结业：**顺利完成课程将获得 Programme Certificate 与 Transcript。

**申请条件：**为保证学生深度参与课程研究与讨论，申请人需要达到以下基础要求：IELTS with minimum overall score of 6.0，或 TOEFL with minimum overall score of 80。如尚未拥有以上成绩证明，可提供其他英语能力证明（如四级，六级，或高考成绩等），项目学术处将依据申请人资历进行审核，或将安排面试，OPGDI 学术处将对录取结果拥有最终决定权。

**项目咨询：**此项目仅向合作高校开放，课程内容咨询联系

Wechat: oppadmin

Email: admin@oxford-prospects.com

Tel: +44 01865 517028



### 3.1 学术课程 Academic Lectures

学术课程共计 15 学时，分四大跨学科 Module，选择其一参加。各跨学科 Module 由对应的英国四大学术院的国家院士领衔并亲自主持授课，其余授课老师为牛津大学教授、学者以及部分特邀行业嘉宾，无在读博士或博士后代课。

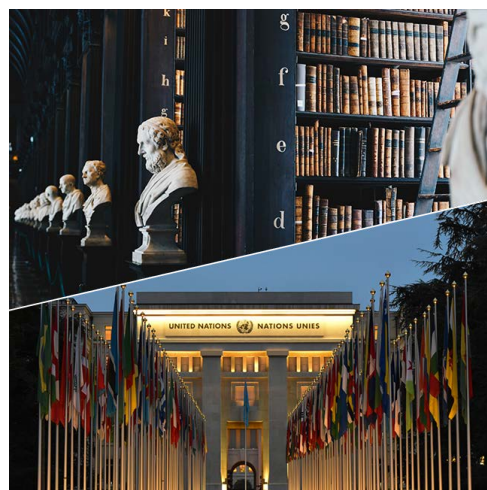


课程精选跨学科前沿热门议题，通过对特定热门学术议题的**纵深学习**，激发对具体学科和未来学术规划的兴趣。通过跨学科式的**广度学习**，构建对相关领域更全面的理解和认知，对于未来学术和职业规划有更清晰的认识，更将利于突破单一学科思维模式限定，对于国际化、多元文化交流，团队合作，系统性复杂问题的解决奠定良好基础。

\* 课程大纲及师资安排请参照 Page 5-12 详细内容。

#### Module A: 政治 - 经济 - 哲学 - 法律

政经哲专业最初由牛津大学设立，后受诸多顶级名校效仿，被誉为人文社科类最顶尖的专业之一，核心主旨在于通过几个不同角度，但却互补的学术方向和分析框架，完整的认识社会现象。此次课程内容通过研究决策的含义，竞争性市场经济的后果以及社会秩序的变化，学生将探索塑造当代世界的一系列相互依存的主题。领域内的知名教授学者将为学生们提供理论工具和方法论支持，以便在更广泛的国际背景下系统地理解政治、经济和社会问题。



#### Module B: 文学 - 语言 - 数字文化与传播学

英剧唐顿庄园（Downton Abbey）的幕后有怎样的故事，在不同文化背景下的传播和接受度有什么样的区别？阅读可以成为理解和澄清自己思想的一种方式吗？新媒体数字文化是否正在改变我们的看法？在这一具有前瞻性的课程中，学生将专注于跨文化的各种交流媒体的基本信息。从莎士比亚悲剧和奥斯卡·王尔德的戏剧，从学术和表演艺术的角度进行分析和严格审查，通过电影专家到数字媒体和社会，学生将有机会参与文学，语言和传播方面的最新研究。

## Module C: 金融 - 商科 - 管理

全球化背景下商业管理有什么样的影响？未来的世界需要怎样的全球领导力和企业家精神？

可持续性，数字化转型，量化经济学，博弈论，加密货币，创新创业，劳动力市场，国际商业的政治经济学以及多层系统带来的挑战，这些将激发学生对周围世界，市场机制，政策选择，进行批判性的思考。



## Module D: 人工智能 - 生命科学 - 数学 - 物理

银纳米线可以学习和预测洛杉矶的交通方式吗？下一代核电站是什么样的？如何称重黑洞？如何利用数学原理清理海洋？通用量子计算机可以实现自我复制吗？

创新发生在各个学科的交汇处，课程中，学生将与最高级别的院士和顶尖专家深度交流，运用创造性推理和科学，超越传统学科界限，探索和解决实际问题。

### 3.2 小班研讨会 Seminars

学以致用，为增强课程互动，知识理解和输出，每日学术课程之后将安排线上互动研讨课，对学术内容进行分组深度互动式讨论，小组作业展示，提升团队合作，锻炼学术技能，此部分课程共计 10 个学时。

“与 Lecture 授课模式不同，Seminar 小班过程中的收获完全超乎我的预期，非常 Hardcore，教授给我们分组并引领我们进行开放式的课程讨论，激励我们探索，知识输出，科研方法论实践，让我第一次觉得问题解决、做学术是可以如此有趣。”

— 李同学，浙江大学本科三年级

### 3.3 拓展工作坊 Workshops

拓展工作坊旨在激发参与者的内驱力，锻炼批判性思维和研究技能，强化自我意识和心理健康，同时还将提供与成功申请者互动并建立新人际关系的机会，此部分课程共计 5 个学时，内容包括：

- 科学研究方法论
- 个人陈述撰写
- 学术科研论文撰写
- 申请过程解读
- 演讲展示技能
- 心理健康及朋辈支持
- 牛津在读生及校友分享讨论会
- 学业及职业规划

#### Module Description

Do we all have the right to health? Does economy influence the way people vote? What characteristics should a leader in times of crisis have?

During this programme, students will appreciate our strong focus on philosophy, politics and international economics enriched by some insight into legal systems. Examining the implications of decision-making, the consequences of competitive market economy and changes in social order, students will have the opportunity to explore a wide range of interdependent topics that shape contemporary world. Learning from and engaging with leading Oxford academics, this course will equip students with theoretical and methodological tools and expertise to engage systematically with political and economic questions in a broader international context.

#### Proposed Topics

- Modern British Politics and Government
- Europe in a Wider Context
- Re-engineering Social Security for the New Economy
- Globalisation Trends in the Context of Covid-19
- The Social Consequences of Unemployment
- The Economic Vote: How Political and Economic Institutions Condition Election Results
- Economic Crisis and Job Quality
- Startups and Employment
- An Introduction to the Rationales and Goals of Competition Law in Emergency Times
- Precedent in Legal Reasoning
- Human Right to Health
- Moral Philosophy, and Practical Ethics

#### Suitable Subjects

Social Sciences and in particular, fields related to: Politics and Administration, International Relations, Philosophy, Sociology, Economics and Trade, Law, Journalism, etc.

## Proposed List of Lecturers (Partial)



### ■ Professor Sir Richard Sorabji

Fellow of British Academy, Fellow of the American Academy of Arts and Sciences, Commander of the British Empire. He has published 15 books, edited or co-edited 11 and provided two book-length series of interviews. Prof. Sorabji's writing on Philosophy and its History covers three main areas: the physics of the universe, the mind and social and ethical problems.



### ■ Professor Duncan Gallie

Fellow of British Academy, Commander of the British Empire, Fellow of Nuffield College, Professor of Sociology in the University of Oxford. He has advised the French government as a member of an expert group on psychosocial risks at work. He served as Vice-President Social Sciences and then as Foreign Secretary and Vice President of the British Academy .



### ■ Prof Paul Craig

Emeritus Professor of English Law, Fellow of the British Academy. He was appointed an honorary Queen's Counsel. Professor Craig does most of his teaching and research in Constitutional and Administrative Law, and European Community Law and is currently engaged in a project which brings all of these subjects together.



### ■ Professor Avner Offer

Fellow of the British Academy, Emeritus Fellow of All Souls College. He has published on international political economy, law, the First World War, and land tenure. Professor Avner studies the origins, attributes, and drivers of market liberalism, its successes, failures, and prospects. Currently he is studying the transition from Social Democracy to Market Liberalism.



### ■ Professor David Rueda

Professor of Comparative Politics at Nuffield College. Received numerous research awards, including a British Academy Research Development Award (2008-2010). Author of *Social Democracy Inside Out* (Oxford University Press, 2007) and *Who Wants What? Redistribution Preferences in Comparative Perspective* (Cambridge University Press, 2019).



### ■ Professor Jonathan Wolff

Blavatnik Chair in Public Policy and Governing Body Fellow at Wolfson College. Formerly Professor of Philosophy and Dean of Arts and Humanities at UCL. He has been an external member of the Board of Science of the British Medical Association. His recent work has largely concerned equality, disadvantage, social justice and poverty.



### ■ Professor Micheal Freedon

Emeritus Professor of Politics. Sir Isaiah Berlin Prize for Lifetime Contribution to Political Studies by the UK Political Studies Association. Fellow of the Academy of Social Sciences. His main interest is in the study of actual political thinking at various levels of articulation.

### Literature, Language, Digital Culture and Communication 文学 - 语言 - 数字文化与传播学

#### Module Description

Ever wondered what happens behind the scenes of the most successful British show worldwide of all time -Downton Abbey? Could reading be a way of understanding and clarifying our own thinking? Is digital culture changing our perception? When we read, we are making sense not just of the words on the page but of the ideas being communicated to us. In this forward-thinking course, students are going to focus on the underlying messages of various media of communication across cultures. From Shakespearean tragedies and Oscar Wilde's plays analysed and critically examined from academic as well as performing arts angles, through film experts to digital media and society, students will have the opportunity to engage with the latest research in literature, language and communication.

#### Proposed Topics

- Representations of China in Eighteenth-Century English Literature
- Intricate Workings behind the Scenes of Downton abbey
- The changing face of journalism (in the West)
- Creative Multilingualism
- Meeting Hamlet: Hamlet in Performance
- The Gilded Stage: A Social and Cultural History of Opera
- Deceit and Double Lives: Dorian Gray and The Importance of Being Earnest
- Online Social Networks
- Disinformation by Design
- Ways of Seeing: Interdisciplinarity in the Arts

#### Suitable Subjects

English Language and Literature, Foreign Languages, Linguistics, Translation, Chinese Language and Literature, Sociology, Anthropology and Archaeology, History, Drama, Film and Television, Media Studies, Arts, Cross-cultural Communication, Library Studies, Humanities and Education



## Proposed List of Lecturers (Partial)

### ■ Prof. Ros Ballaster

Professor of 18th Century Studies and Lecturer in the Faculty of English and Tutorial Fellow at Mansfield College. Professor Ballaster was a Visiting Fellow to the Department of English and American Literature at Harvard University. Her main research areas encompass seventeenth-and eighteenth-century culture; oriental fiction; ideas of cognition and character in literary and theatrical representation.



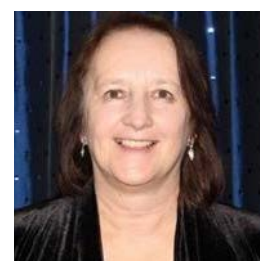
### ■ Dr Michelle Castelletti

Fellow of the Royal Society of Arts, conductor, composer and Director of Oxford Festival of the Arts. After leaving her post as music lecturer and conductor at university, as well as the running of Sounds New Contemporary Music Festival in Canterbury, Michelle became the Artistic Director of the Royal Northern College of Music, as both an Arts Centre, and as a Conservatoire.



### ■ Ms Liz Trubridge

Film director and television producer mostly known for her role as Executive Producer of Downton Abbey. She has won many awards for her work, including a Primetime Emmy, a BAFTA and a Golden Globe. Downton Abbey aired on UK television between 2010 and the end of 2016. It is the most successful British show worldwide of all time and has won many awards around the world.



### ■ Major General Alastair Bruce of Crionaich

British Army reservist, journalist and television correspondent, who commanded the TA Media Operations Group, before being appointed in 2019 Governor of Edinburgh Castle. Bruce has worked as a historical advisor to Oscar-winning films such as The King's Speech (2010) and The Young Victoria (2009), and the BAFTA-winning television series Downton Abbey.



### ■ Dr Clare Morgan

Director, Master of Studies in Creative Writing, Department for Continuing Education, Fellow of Kellogg College, the Chair of the Literature Bursaries Panel for the Arts Council of Wales. Dr Morgan is a novelist and short story writer, whose interdisciplinary research interests currently focus on creative writing, and on the relation between literature and business.



### ■ Dr James Painter

Director of Journalism Programme at Reuters Institute for the Study of Journalism. He has carried out several consultancies for the IPCC, IPBES, Oxfam, UNDP, Conservation International and other organisations. James joined the BBC World Service in 1992, and worked as head of the Spanish American Service, head of the BBC Miami office, and Executive Editor Americas.



### ■ Dr Peak Krafft

Senior Research Fellow at the OII in the University of Oxford's Social Science Division. Dr. Krafft's research, teaching, and organizing aim to bridge computing, the social sciences, and public interest sector work towards the goals of social responsibility and social justice. Dr. Krafft's research interests include Sociotechnical systems, digital institutions, online laboratory experiments, sociotechnical systems, etc.



#### Module Description

This module is for students interested in understanding the impact of business on our globalised world. Sustainability, digital transformation, quantitative economics, game theory, cryptocurrency, innovation, labour markets, political economy of international business and the challenges posed by multi-level systems will stimulate students to critically reflect on the surrounding world, market mechanisms, policy options, innovation as well as global leadership and entrepreneurship in the 21st century.

#### Proposed Topics

- The British Economy - Yesterday, Today, Tomorrow
- Globalisation Trends in the Context of Covid-19: Implications for Business and Management
- Applications of Game Theory to Real World
- Startups and Employment
- Risk management
- Financial Crisis
- Fintech
- A Proposal for Central Bank Digital Currency
- Sustainability Accounting
- Corporate Finance

#### Suitable Subjects

Business related, Economy related, Finance related, Accounting, Business and Public Administration, International Trade, Management, Marketing

## Proposed List of Lecturers (Partial)



### ■ Professor Duncan Gallie

Fellow of British Academy, Commander of the British Empire, Fellow of Nuffield College, Professor of Sociology in the University of Oxford. He has advised the French government as a member of an expert group on psychosocial risks at work. He served as Vice-President Social Sciences and then as Foreign Secretary and Vice President of the British Academy .



### ■ Professor Avner Offer

Fellow of the British Academy, Emeritus Fellow of All Souls College. He has published on international political economy, law, the First World War, and land tenure. Professor Avner studies the origins, attributes, and drivers of market liberalism, its successes, failures, and prospects. Currently he is studying the transition from Social Democracy to Market Liberalism.



### ■ Professor Chris Rowley

Visiting Professor at Kellogg College, and a member of the College's Centre for Mutual and Employee-owned Business. He is a well-known figure in Asian business and management sectors. His areas of expertise include cultural awareness, diversity, leadership, knowledge management, and employment, and human resource management policy.



### ■ Professor Petr Sedlacek

Professor and Tutor in Economics at Christ Church College, and a Research Fellow at the Centre for Economic Policy Research. Professor Sedlacek is also Principal Investigator for the Entrepreneurs, Firms and the Macroeconomy research project, for which he has been awarded a Starting Grant of the European Research Council.



### ■ Professor Richard Barker

Professor of Accounting at the Saïd Business School. He has education from both the University of Oxford and University of Cambridge, and he qualified as a chartered management accountant while working for AstraZeneca. He is the academic member of the Corporate Reporting Council, which sets UK accounting standards.



### ■ Dr Arhat Viridi

Teaching Fellow in Finance and Accounting at Saïd Business School. He also holds Lectureships in Economics at Brasenose College, Herford College and St Catherine's College. His areas of expertise span the economics, finance, and accounting disciplines. Dr Viridi serves as an Adjunct Member of the Economics faculty at Hong Kong University, as well as being a Research Associate at LSE.



### ■ Professor Andrea Ferrero

Professor in the Department of Economics at the University of Oxford and the Levine Fellow in Economics at Trinity College, where he teaches undergraduate and graduate macroeconomics. He is currently an academic consultant for the Bank of England and was a consultant the Norges Bank between 2014 and 2016.

### Interdisciplinary Science: AI, Life Sciences, Maths and Physics

人工智能 - 生命科学 - 数学 - 物理

#### Module Description

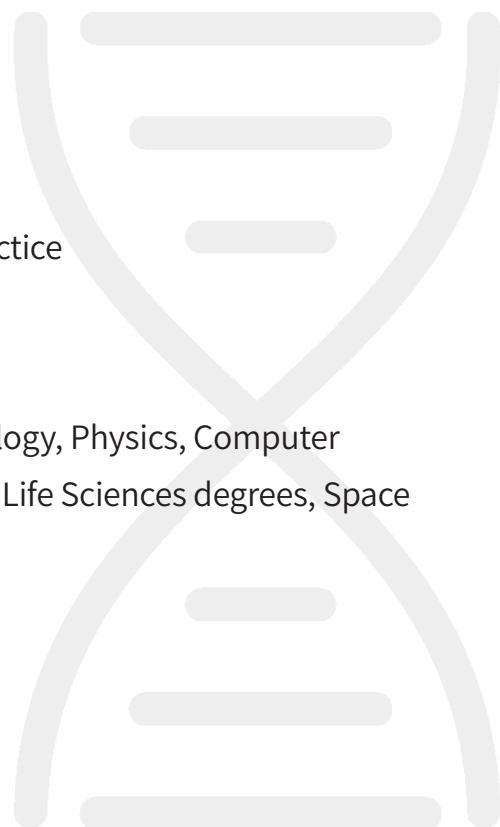
Can silver nanowires learn and predict the patterns of traffic of Los Angeles? How do you weigh a black hole? Can universal quantum computers self-reproduce? Innovation happens at the intersection of various disciplines. Students will explore ways to apply creative reasoning and science to solve real problems while crossing traditional boundaries of disciplines. As disciplines converge into new hybrid fields students will engage with the highest-level academicians and leading experts who invent and research the cutting-edge solutions of the modern world.

#### Proposed Topics

- Human-AI Interaction: Digitalisation and Collective Action
- Beyond Quantum Computing: Constructor Theory
- Using Maths to Clean-up our Oceans
- Knowledge Graphs for Artificial Intelligence
- Computer-aided Drug Design
- Multicomponent High-Entropy Cantor Alloys
- Future Powertrains
- Next Generation of Nuclear Power Stations
- Mathematical Modelling: Art of Problem Solving
- Information Processing in Quantum-Mechanical Systems
- The Data Revolution for Social Good: From Theory to Practice

#### Suitable Subjects

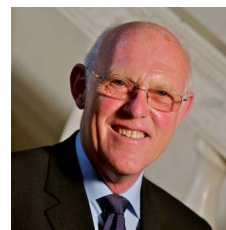
Engineering related degrees, Material Science and Technology, Physics, Computer Science, Artificial Intelligence, Mathematics, Transportation, Life Sciences degrees, Space Science and Technology



## Proposed List of Lecturers (Partial)

### ■ Prof. Mike Brady

Fellow of the Royal Society, Fellow of the Royal Academy of Engineering, Fellow of the Academy of Medical Sciences, Professor in the Department of Oncology. Professor Brady was Deputy Chairman of Oxford Instruments plc from 1994 to 2014. He was awarded the Faraday Medal for the year 2000, and a Third Millennium medal of the IEEE.



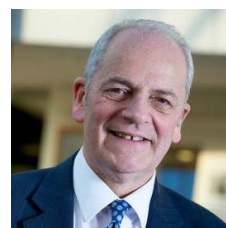
### ■ Prof. Graham Richards

Fellow of the Royal Society, First Chairman of Chemistry at the University of Oxford. He also founded Oxford Molecular, a scientific software company that at its peak was worth £450m and helped set up Oxford University Innovation, Oxford's technology transfer company that has brought approximately 60 spin-out companies into existence.



### ■ Professor Brian Cantor

Fellow of the Royal Academy of Engineering, Commander of the British Empire. Professor of Materials in the Department of Materials, Former Vice-President of the Royal Academy of Engineering. He was awarded the Rosenhain and Platinum Medals of the Institute of Materials, Minerals and Mining. He has published over 300 papers and books, given over 100 invited talks in more than 15 countries.



### ■ Prof. Harish Bhaskaran

Professor of Applied Nanomaterials in the Department of Materials, EPSRC Fellow in Manufacturing. He is an inventor of phase change photonic computing and continues work in establishing the field. His work has been featured widely over the last several years in Science, Nature, The Economist, MIT Technology Review, Fortune, Wired, BBC etc.



### ■ Dr Julian Dye

Departmental Lecturer at the Institute of Biomedical Engineering (IBME), the Director of Research in the RAFT Institute. Dr Dye established a research programme to develop a new approach to skin reconstruction, inventing an artificial skin material called 'Smart Matrix', a pro-angiogenic synthetic dermal replacement.



### ■ Prof. Dino Sejdinovic

Professor at the Department of Statistics, Turing Fellow of the Alan Turing Institute. He is broadly interested in statistical foundations underpinning large-scale machine learning algorithms. Professor Sejdinovic conducts research at the interface between machine learning and statistical methodology with a focus on kernel and nonparametric methods.



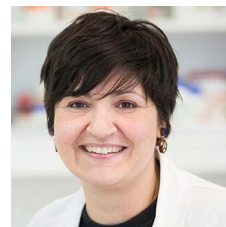
### ■ Prof. Roi Cohen Kadosh

Senior Research Fellow in Psychology and Professor of Cognitive Neuroscience in the Department of Experimental Psychology. Professor Cohen Kadosh's main research focuses on the psychological and biological factors that shape learning and cognition. His work has garnered considerable international recognition and Professor Cohen Kadosh has received prestigious awards, prizes, and honours.



### ■ Prof. Sonia Antoranz Contera

Professorial Fellow of Green Templeton College, and a Professor of Biological Physics at the University of Oxford Physics Department. Her work lies at the interface of physics, biology, and nanotechnology. She was the founder, director and co-director of the Oxford Martin Institute of Nanoscience for Medicine at the Oxford Martin School.



# 导师辅导制课程

## Tutorial Online Programme

牛津大学辅导制 (Tutorial System) 被誉为皇冠上的明珠，是牛津本科教学最为核心的部分。学生将有机会以 2-3 人小组形式，接受牛津导师就自身兴趣学科的针对性辅导，培养自主学习及研究能力，训练批判性思维。此部分线上导师辅导制课程需单独提交申请报名。

**课程收获：** ✓ 与各领域的世界顶尖专家建立长久私人联系

✓ 深入探索自身兴趣学科

✓ 培养强化批判性精神及自主研究能力

✓ 习得如何提出并捍卫自身观点，接纳建设性批评意见并积极思考

✓ 为之后的研究学习做充分准备

✓ 收获项目结业证书及牛津大学导师的亲笔评估报告

**授课时间：** 2021 年 2 月 - 3 月

**课程费用：** 1260 英镑

**课程安排：** 包含总计 8 节导师辅导制课程（1 节学术先导课程 + 7 节导师面对面辅导）。学生可根据自身情况选择 4 周（每周两课时）或 8 周（每周一课时）来完成课程内容。

**考核测评：** 1 篇 2000 字的学术 Essay，课堂表现及出勤情况也会纳入考评。

**如何申请：** 提交不少于 500 字的个人简述 Personal Statement，注明申请原因，自身学术兴趣，研究方向和所期望的收获。OPGDI 学术部将组织统一面试遴选。

## 学生回顾

“导师辅导制教学使我更愿意提出自身观点并提供佐证，不被拘束于已知领域的框架内。在课程中，我第一次体会到自身观点的重要性，导师并非简单的复述教科书中的知识，而是真切的在询问我的思考。”

— Adam, 牛津大学哲学系，本科一年级

“每周讨论学术论文，灵感，想法及疑难困惑，导师通常是该领域的先导者。课程中导师不再是高高在上或站在远处讲台上的教授，而是与我及其他两位同学一起进行学术研究探讨的真正的‘私人导师’。”

— Maddie, 牛津大学计算机科学系，本科二年级

“导师辅导制教学提供了一个高强度、高互动性的学习环境，我们可以讨论该周学术论文的主题，并从中衍生出各种议题进行辩论。在导师的引导下，可以从同学们各异的观点中获得新的灵感及思考。”

— Chloe, 牛津大学经济系，本科二年级

“导师辅导制教学绝对是我在牛津获得最好学术经验的地方！它能使我自主的发掘知识，并在课程中与导师进行讨论，学以致用，而不是身在讲堂，被动无聊的学习书本上已有的知识。”

— Jin-Gyu, 牛津大学社会学系，本科三年级

## —— 线上导师辅导制课程课表 ——

辅导课时	课程内容
2 课时	导师将在课程开始前通过电子邮箱发送课前阅读材料。课上，学生们将在导师的引导下，于 2-3 人的辅导小组中讨论对于阅读材料的见解，并做相关的学术知识延伸。课后需要在完成一份学术研究报告。
2 课时	学生们应于课前将学术研究报告提交导师。课上，导师将就每个人的研究报告给予详尽的反馈，同时进行建设性的批判及想法的交流。
2 课时	导师将在课程开始前通过电子邮箱发送课前阅读材料。课上，学生们将在小组中讨论对于阅读材料的理解，培养并提高他们批判性思维及分析性研究的技能。课后需要完成一份学术研究报告。
2 课时	学生们应于课前将学术研究报告提交导师。导师将就学生们的研究报告给予严格的评估，并在课上给到学生们建设性的评判，并进行进一步的严谨的学术讨论。

\* 具体课程安排视导师及课程专业方向略有调整，根据实际情况而定。

### 部分课题示例

- Philosophy: *Practical Ethics*
- Neuroscience: *Artificial Intelligence - Computational Neuroscience*
- Astronomy: *Gamma Ray Bursts*
- Hydrology: *Evapotranspiration modeling*
- Physics: *Fluid Dynamics*
- Psychology: *Nonverbal communication*
- Finance: *Digital Banking*
- Maths: *Applied Cryptography*
- Economics: *Game Theory*
- Sociology: *Nationality and Pride: What Makes a Patriot?*
- Law: *Tort Law*
- Chemistry: *Polymer chemistry*
- Linguistics: *How Do We Learn?*
- Medicine: *Medical Imaging*
- Politics: *The Relationship Between Politics and Morality*
- Bioengineering: *Gene-editing*
- Computer Science: *Cloud computing*





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