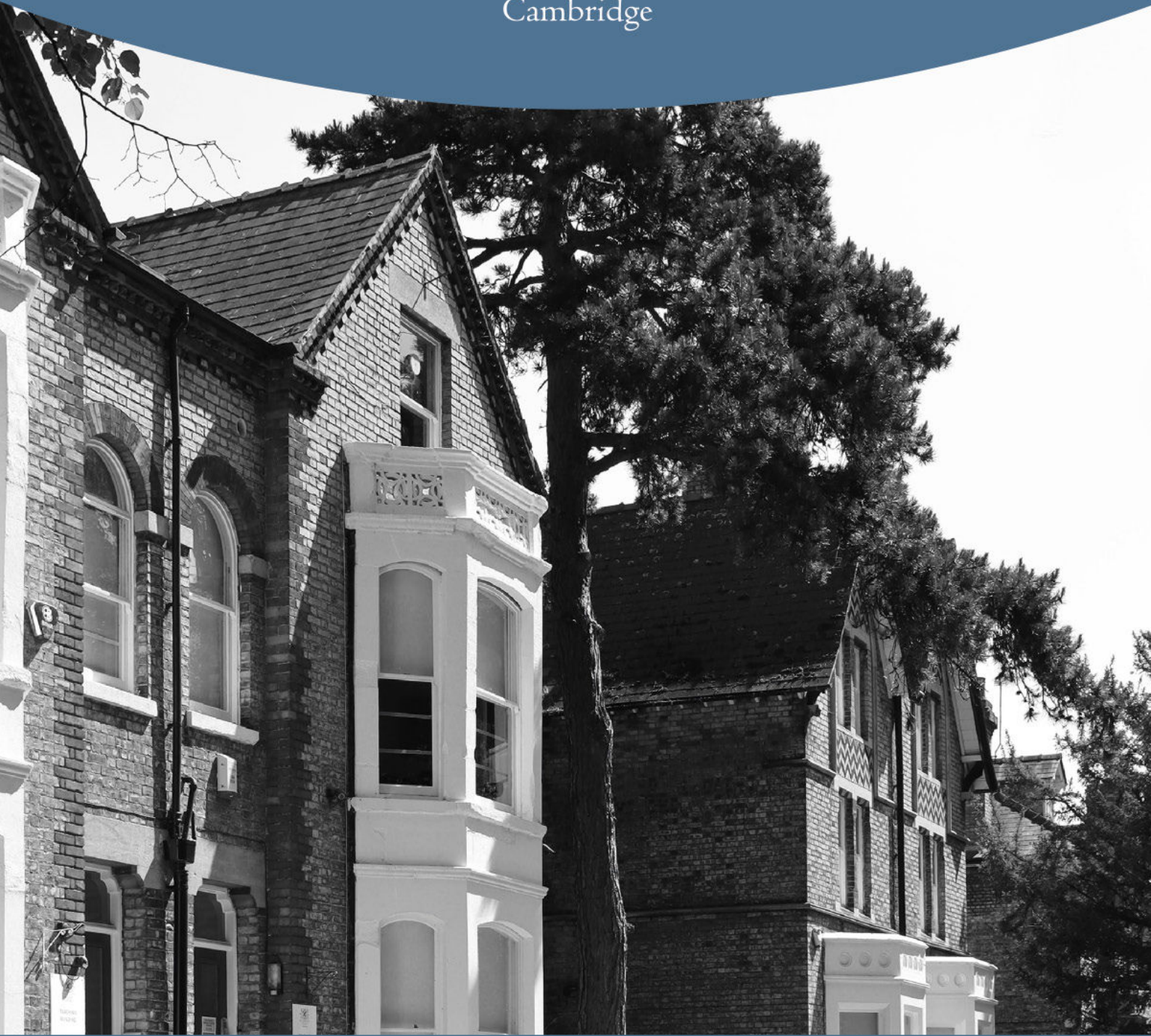# ST. ANDREW'S COLLEGE
Cambridge

STUDENT DEVELOPMENT PROGRAMME

1.5 YEARS, COVERING TWO APPLICATION CYCLES

150+ HOURS

Academic Research Training by Cambridge PhD Students
Research Proposal
Research Paper
Academic Skills Workshop

Cambridge Professor Sessions
Online Talks
In-Person Talks
Lab/College/Department visit

ABOUT THE PROGRAMME

The programme was founded in 2012 by the Maxer Education Institute. It has been organising research training programmes that benefited over 12,800 students across the world.

The program has been set up to provide a set of academic development training for prospective school students who aim to apply to Cambridge, Oxford and other key UK and overseas universities.

The programme has been developed since 2021 into an A-Level Student Development Programme which has successfully supported students to Cambridge, Oxford and other key UK and overseas universities.

A customised programme has been designed based on the A-level Student Development Programme for St Andrew's College's A-Level students enrolled in 2023 and to be enrolled in September 2024. The key components include Academic Research Skills Training and Cambridge Professor Sessions.

With the support of the Cambridge Professors and current Cambridge PhD, our students will be guided to complete a group research proposal and research paper by the end of the programme, which is a key indicator of the student's academic research potential.

The Programme offers students the opportunities, resources and guidance to enhance the ability to showcase their academic potential. It is well-designed to support high-achieving students to reach their goals and prepare for their future academic endeavours in top universities.

Highlights

- Supervised by Cambridge PhD to complete a group research proposal and a group research paper
- Talks and lab visits led by Cambridge professors

STUDENT TESTIMONIAL

"

Being able to participate in the programme both in person and online under the guidance and supervision of Prof. Nicola Clayton FRS and her team was a truly dream come true experience. The programme allowed me to have an insight into a psychology lab and offered me the experience of designing a laboratory experience using the software Psychopy, which further developed my technological and methodological skills to stand out from the competition.

I'm so grateful for the experience and would highly recommend it to anyone looking to take their academic skills to the next level.

★ ★ ★ ★ ★

Taoyu (Antonio)
Programme Alumnus 2021-2023
A-Level student 2022-2023 at a UK sixth-form College
Current 1st year undergraduate Psychological and Behavioural Sciences, Clare College, University of Cambridge

"

DESTINATION OF PROGRAMME ALUMNI

Over the past 2 years, 4 of 18 students who participated in the programmes have received an offer from Cambridge, and 12 out of 18 received an offer from G5 universities. Below are some key destinations of the programme's alumni:

1ST COHORT (2021-23) - 8 A-LEVEL STUDENTS, KEY DESTINATIONS:

- ***Cambridge (Psychological and Behavioural Sciences)***
- Imperial and UCL (Mathematics)
- Imperial and UCL (Chemistry)
- UCL (Mathematical Computation)
- UCL (Sociology)
- UCL (Civil Engineering)

2ND COHORT (2022-24) - 10 A-LEVEL STUDENTS, KEY DESTINATIONS:

- ***Cambridge (Economics)***
- ***Cambridge (Natural Sciences)***
- ***Cambridge (Mathematics)***
- Imperial (Mathematics)
- Imperial (Mathematics with Mathematical Computation)
- UCL (Information Management For Business)

PROGRAMME SUPERVISORS (SUBJECT TO CHANGE)

PROF. PIETRO LIO'
Professor of Computer Science and Technology
Fellow of Clare Hall
University of Cambridge

PROF. MATTHEW GRIMES
Professor of Entrepreneurship and Sustainable Futures
Director of the MPhil in Innovation, Strategy and Organisation Programme
University of Cambridge

DR. MATTHIAS DORRZAPF
Director of Scholarships & International Programmes
Director of Studies in Mathematics
Fellow of St John's College
University of Cambridge

PROF. THOMAS KRIEG
Professor for Experimental Cardiovascular Medicine
Honorary Consultant Physician
University of Cambridge

*All faculty members are acting in their personal capacity

PROF. NICKY CLAYTON FRS
Professor of Comparative Cognition
Fellow of Clare College
University of Cambridge

PROF. ANDY WOODS FRS
Head of The Institute for Energy and Environmental Flows
Fellow of St John's College
University of Cambridge

PROF. JASON ROBINSON
Professor of Materials Physics
Head of Department (Joint) of Materials Science & Metallurgy
Fellow of St John's College
University of Cambridge

PROF. PATRICK BAERT
Professor of Social Theory
Fellow, Tutor and Director of Studies at Selwyn College
University of Cambridge

DR. CATHERINE MACKENZIE
Director of Studies in Law, Clare Hall
Director of Studies in Law and Land Economy, Homerton College
University of Cambridge

UK Commonwealth Scholarship Commissioner
Barrister and Governing Master of the Bench of Inner Temple
(Inn of Court for barristers)

PROGRAMME SUPERVISORS (SUBJECT TO CHANGE)

MEDICINE:

Awunor Onyeka
PhD student in Pharmacology, University of Cambridge
MSc in Pharmacology, University of Oxford

Shivani Shukla
*MB BChir (Cantab) student, University of Cambridge BA
(Hons) in Genetics, University of Cambridge*

MATHEMATICS:

Bernice Yuan
PhD student in Finance, University of Cambridge
MSc in Mathematics and Finance, Imperial College London

COMPUTER SCIENCE:

Jake Stuchbury-wass
*MRes and PhD (CDT) student in Sensor Technologies and
Applications, University of Cambridge*
*MEng, BA Engineering (Information and computer
engineering), University of Cambridge*

*All supervisors are acting in their personal capacity

BUSINESS:

Tizar Bijaksana
PhD student in Land Economy, University of Cambridge

Francisco Wang
PhD student in Marketing, University of Cambridge

ENGLISH LITERATURE:

Gwenda Koo
PhD student in English, University of Cambridge

PSYCHOLOGY:

Ming Ye
PhD student in Psychology, University of Cambridge

LAW/INTERNATIONAL RELATIONS:

Ayantola Alayande
PhD student in Politics and International Studies, University of Cambridge

SUBJECTS OFFERED AND STUDENT INTAKE

- **Medicine**
- **Mathematics**
- **Computer Science**
- **Social Science (Business/ English Literature/ Psychology/ Law)**
  (Choose one subject only)

PROGRAMME MODULES

Module 1 - Academic Research Training
- Research Proposal
- Research Paper
- Academic Skills Workshop

Module 3 - Cambridge Professor Sessions
- Online Talks
- In-person Talks
- Lab/College/Department visit

PROGRAMME ELEMENTS

Each module includes different elements. Students should attend the sessions that are relevant to them.

- **Programme Orientation:** open to all students
- **Lecture:** open to all students
- **Supervision:** subject-specific - only open to a limited number of students who joined that subject group
- **Academic Skills Workshop:** open to all students
- **Professor In-person Talk:** open to all students
- **Professor Online Talk (during vacation period):** open to all students
- **Professor-led Lab/College/Department visit:** open to all students

TIME-FRAME - STUDENTS ENROLLED IN SEPTEMBER 2023

Month	Schedule
May 2024 Module 1 • Programme Orientation • Research Training - Research Proposal • Research Training - Academic Skills Workshop	**Available time:** Monday-Friday after school time 15:30-16:30 during term time **Weekly plan:** **Week 1** 16 May: Programme Orientation Talk 17 May: Academic Skills Workshop - Teamwork **Week 2** 20-24 May: Mon- Subject 1 - Lecture Tue- Subject 2 - Lecture Wed- Subject 3 - Lecture Thu- Subject 4 - Lecture Fri- Academic Skills Workshop - Literature Review **Week 3** 27-31 May: Mon- Subject 1 - Group Supervision: Research Topic Guidance Tue- Subject 2 - Group Supervision: Research Topic Guidance Wed- Subject 3 - Group Supervision: Research Topic Guidance Thu- Subject 4 - Group Supervision: Research Topic Guidance Fri- Academic Skills Workshop - Academic Writing

Month	Schedule
June 2024 Module 1 • Research Training Research Proposal • Research Training Academic Skills Workshop	**Week 4** 3-7 June: Mon- Subject 1 - Group Supervision: Literature Review Tue- Subject 2 - Group Supervision: Literature Review Wed- Subject 3 - Group Supervision: Literature Review Thu- Subject 4 - Group Supervision: Literature Review Fri- Academic Skills Workshop - Presentation Skills **Week 5** 10-14 June: Mon- Subject 1 - Group Supervision: Research design, Methodology, Discussion Tue- Subject 2 - Group Supervision: Research design, Methodology, Discussion Wed- Subject 3 - Group Supervision: Research design, Methodology, Discussion Thu- Subject 4 - Group Supervision: Research design, Methodology, Discussion **Week 6** 17-21 June: Mon- Subject 1 - Group Supervision: Presentation, and Feedback Tue- Subject 2 - Group Supervision: Presentation, and Feedback Wed- Subject 3 - Group Supervision: Presentation, and Feedback Thu- Subject 4 - Group Supervision: Presentation, and Feedback 24 June: Submit group research proposal for review and correction

TIME-FRAME - STUDENTS ENROLLED IN SEPTEMBER 2023

Month	Schedule
July - August 2024 Module 2 • Professors Sessions Online talks	All students will have access to the online talks offered by Cambridge Professors: **Computer Science:** 2 talks offered by Prof Pietro Lio' **Business, Finance and Economics:** 2 talks offered by Prof Matthew Grimes / Dr. Matthias Dorrzapf **Medicine:** 2 talks offered by Prof Thomas Krieg
September 2024 Module 1 • Research Training Research Paper	**Week 1: 2-6 Sep** Mon- Subject 4 - Group Supervision: Literature Review **Week 2: 9-13 Sep** Mon- Subject 4 - Group Supervision: Methodology **Week 3: 16-20 Sep** Mon- Subject 4 - Group Supervision: Result, Discussion **Week 4: 23-27 Sep** Mon- Subject 4 - Group Supervision: Group Presentation, Feedback Wed- Subject 1 - Group Supervision: Literature review Fri- Subject 2 - Group Supervision: Literature review

Month	Schedule
October 2024 Module 1 • Research Training - Research Paper, Skill Workshops Module 2 • Professors Sessions -In person talks	**Week 5: 30 Sep-4 Oct** Mon: Subject 3 - Group Supervision: Literature review Wed: Subject 1 - Group Supervision: Methodology Fri: Subject 2 - Group Supervision: Methodology **Week 6: 7-11 Oct** Mon: Subject 3 - Group Supervision: Methodology Wed: Subject 1 - Group Supervision: Result, Discussion Fri: Subject 2 - Group Supervision: Result, Discussion **Week 7: 14-18 Oct** Mon: Subject 3 - Group Supervision: Result, Discussion Tue: Academic Skills Workshop - Building your academic website Wed: Subject 1 - Group Presentation, Feedback Thu: Subject 2 - Group Presentation, Feedback Fri: Professor's talk **Week 8: 21-25 Oct** Mon: Subject 3 - Group Presentation, Feedback
November 2024 Module 2 • Professors Sessions - In person talks • Lab/College/ Department visit	**Week 9: 4-8 Nov** Fri- Professor's talk **Week 10: 11-15 Nov** Fri- Visit to Professor's Lab/College/Department **Week 11: 18-22 Nov** Fri- Professor's talk **Week 12: 25-29 Nov** Fri- Visit to Professor's Lab/College/Department
December 2024	Cambridge Interview Season

TIME-FRAME - STUDENTS ENROLLED IN SEPTEMBER 2024

Month	Schedule
September 2024 Module 1 • Programme Orientation • Research Training - Research Proposal • Research Training - Academic Skills Workshop	**Available time:** Monday-Friday after school time 15:30-16:30 during term time. **Weekly plan:** **Week 1** 9 Sep: Programme Orientation Talk 10-13 Sep: Online Self-Paced Learning: recorded academic workshops on research proposal 14 Sep: Academic Skills Workshop - Teamwork **Week 2** 16-20 Sep: Mon- Subject 1 - Lecture Tue- Subject 2 - Lecture Wed- Subject 3 - Lecture Thu- Subject 4 - Lecture Fri- Academic Skills Workshop - Literature Review **Week 3** 23-27 Sep: Mon- Subject 1 - Lecture Tue- Subject 2 - Lecture Wed- Subject 3 - Lecture Thu- Subject 4 - Lecture Fri- Academic Skills Workshop - Academic Writing 1

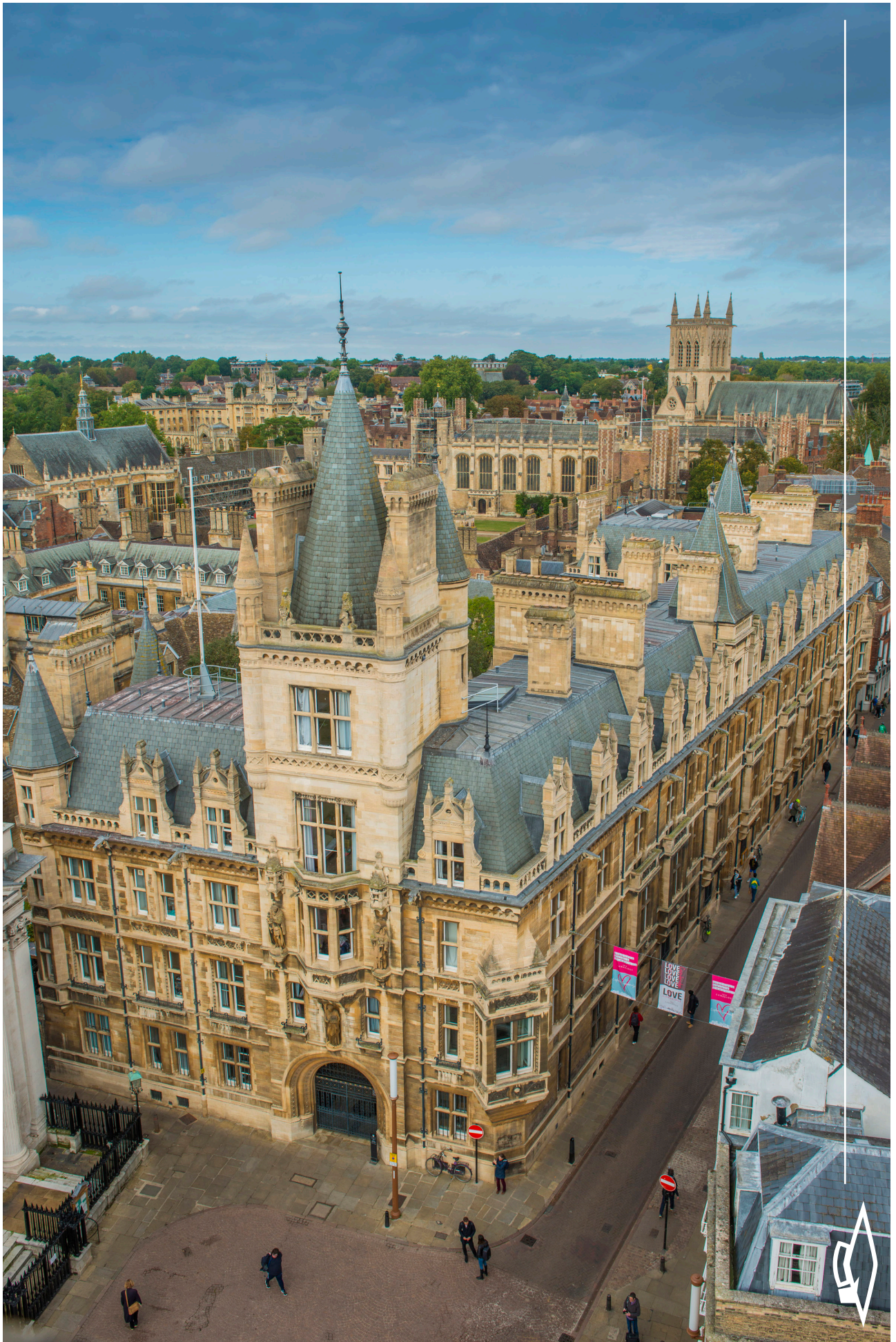| Month	Schedule
October 2024 Module 1 - Research Training - Research Proposal - Research Training - Academic Skills Workshop Module 2 - Professors Sessions - In person talks - Lab/College/ Department visit	**Week 4** 30 Sep-4 Oct: Mon- Subject 1 - Group Supervision: Research Topic Guidance 1 Tue- Subject 2 - Group Supervision: Research Topic Guidance 1 Wed- Subject 3 - Group Supervision: Research Topic Guidance 1 Thu- Subject 4 - Group Supervision: Research Topic Guidance 1 Fri- Academic Skills Workshop - Academic Writing 2 **Week 5** 7-11 Oct: Mon- Subject 1 - Group Supervision: Research Topic Guidance 2 Tue- Subject 2 - Group Supervision: Research Topic Guidance 2 Wed- Subject 3 - Group Supervision: Research Topic Guidance 2 Thu- Subject 4 - Group Supervision: Research Topic Guidance 2 Fri- Academic Skills Workshop - Presentation Skills **Week 6** 14-18 Oct: Mon- Subject 1 - Group Supervision: Feedback and literature review 1 Tue- Subject 2 - Group Supervision: Feedback and literature review 1 Wed- Subject 3 - Group Supervision: Feedback and literature review 1 Thu- Subject 4 - Group Supervision: Feedback and literature review 1 Fri- Professor's talk **Week 7** 21-25 Oct: Mon- Subject 1 - Group Supervision: Feedback and literature review 2 Tue- Subject 2 - Group Supervision: Feedback and literature review 2 Wed- Subject 3 - Group Supervision: Feedback and literature review 2 Thu- Subject 4 - Group Supervision: Feedback and literature review 2 Fri- Visit to Professor's Lab/College/Department

TIME-FRAME - STUDENTS ENROLLED IN SEPTEMBER 2024

Month	Schedule
November 2024 Module 1 • Research Training - Research Proposal Module 2 • Professors Sessions - In person talks • Lab/College/ Department visit	**Week 8** 4-8 Nov: Mon- Subject 1 - Group Supervision: Research design, Methodology 1 Tue- Subject 2 - Group Supervision: Research design, Methodology 1 Wed- Subject 3 - Group Supervision: Research design, Methodology 1 Thu- Subject 4 - Group Supervision: Research design, Methodology 1 Fri- Professor's talk **Week 9** 11-15 Nov: Mon- Subject 1 - Group Supervision: Research design, Methodology 2 Tue- Subject 2 - Group Supervision: Research design, Methodology 2 Wed- Subject 3 - Group Supervision: Research design, Methodology 2 Thu- Subject 4 - Group Supervision: Research design, Methodology 2 Fri- Visit to Professor's Lab/College/Department **Week 10** 18-22 Nov: Mon- Subject 1 - Group Supervision: Time line, Discussion Tue- Subject 2 - Group Supervision: Time line, Discussion Wed- Subject 3 - Group Supervision: Time line, Discussion Thu- Subject 4 - Group Supervision: Time line, Discussion Fri- Professor's talk **Week 11** 25-29 Nov: Mon- Subject 1 - Group Supervision: Presentation, Feedback Tue- Subject 2 - Group Supervision: Presentation, Feedback Wed- Subject 3 - Group Supervision: Presentation, Feedback Thu- Subject 4 - Group Supervision: Presentation, Feedback Fri- Visit to Professor's Lab/College/Department

Month	Schedule
December 2024 Package A: • Research Training - Research Proposal	**Week 12** 2-5 Dec: Mon- Subject 1 - Group Supervision: Proposal Review and feedback Tue- Subject 2 - Group Supervision: Proposal Review and feedback Wed- Subject 3 - Group Supervision: Proposal Review and feedback Thu- Subject 4 - Group Supervision: Proposal Review and feedback **Week 13** 9-12 Dec: Mon- Subject 1 - Group Supervision: Proposal Review and feedback Tue- Subject 2 - Group Supervision: Proposal Review and feedback Wed- Subject 3 - Group Supervision: Proposal Review and feedback Thu- Subject 4 - Group Supervision: Proposal Review and feedback
January 2025 Module 1 • Research Training - Research Paper	**Week 1** 6-10 Jan: Mon- Subject 1 - Group Supervision: Literature review Tue- Subject 2 - Group Supervision: Literature review Wed- Subject 3 - Group Supervision: Literature review Thu- Subject 4 - Group Supervision: Literature review **Week 2** 13-17 Jan: Mon- Subject 1 - Group Supervision: Methodology Tue- Subject 2 - Group Supervision: Methodology Wed- Subject 3 - Group Supervision: Methodology Thu- Subject 4 - Group Supervision: Methodology **Week 3** 20-24 Jan: Mon- Subject 1 - Group Supervision: Result, Discussion Tue- Subject 2 - Group Supervision: Result, Discussion Wed- Subject 3 - Group Supervision: Result, Discussion Thu- Subject 4 - Group Supervision: Result, Discussion **Week 4** 27-31 Jan: Mon- Subject 1 - Group Supervision: Abstract, Introduction Tue- Subject 2 - Group Supervision: Abstract, Introduction Wed- Subject 3 - Group Supervision: Abstract, Introduction Thu- Subject 4 - Group Supervision: Abstract, Introduction

TIME-FRAME - STUDENTS ENROLLED IN SEPTEMBER 2024

Month	Schedule
February 2025 Module 1 • Research Training - Research Paper • Research Training Academic Skills Workshops	**Week 5** 3-7 Feb: Mon- Subject 1 - Group Supervision: Presentation, Feedback Tue- Subject 2 - Group Supervision: Presentation, Feedback Wed- Subject 3 - Group Supervision: Presentation, Feedback Thu- Subject 4 - Group Supervision: Presentation, Feedback **Week 6** 10 Feb: Academic Skills Workshop - Publishing Your Paper **Week 7** 24 Feb: Academic Skills Workshop - Building Your Academic Website
June-August 2025 Module 2 • Professors Sessions - Online talks	Students will have access to the online talks offered by Cambridge Professors (20 hours)
September-October 2025 Module 2 • Professors Sessions - In person talks • Lab/College/ Department visit	**Week 1** Fri- Visit to Professor's Lab/College/Department **Week 2** Fri: Professor's talk **Week 3** Fri: Visit to Professor's Lab/College/Department **Week 4** Fri: Professor's talk **Week 5** Fri: Professor's talk

TOP-UP PROGRAMMES (EXTRA FOR INTERESTED STUDENTS)

1. **2-WEEK SUMMER RESEARCH/ ACADEMIC PROGRAMME**

   (15% discount to students from St Andrew's College)
   - Available subjects: AI, Business, Finance, International Relations, Medicine, Natural Sciences, Psychology, Sociology
   - Gain exposure to the latest developments and knowledge in your chosen field and build academic skills through interactive lectures and small group supervision led by Cambridge professors and PhD students.
   - Immerse in vibrant cultural activities and inspiring visits to prestigious companies and institutions.
   - Study, live, and dine in a traditional Cambridge College with other like- minded students from around the world.

   Programme Awards:

   - A recommendation letter from a Cambridge Professor for the top 50%/20% students
   - A programme reference letter from the Programme Director at Cambridge
   - A Certificate of Attendance jointly signed by Maxer/UniHive and a Cambridge College
   - A reviewed research proposal

   Programme Dates:

   July 15 - July 28, 2024
   July 29 - August 11, 2024
   August 12 - August 25, 2024

2. **1-TO-1 INTERVIEW EXPERT ADVICE AND TRAINING (SUBJECT TO REQUIREMENTS)**

   - Receive customised training and written feedback from Cambridge academics to help you excel in your Cambridge interview
   - Conduct in-person mock interviews to imitate the real Cambridge interview setting

3. **1-TO-1 ENTRANCE EXAM TUTORING (SUBJECT TO REQUIREMENTS)**

   - Customised Cambridge entrance exam tutoring according to your academic ability, progress, and goal
   - An initial assessment is required to assess the student's performance

ST. ANDREW'S COLLEGE
Cambridge

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St Andrew's College is part of Dukes Education. Together we're extraordinary.