

EMMANUEL 2023 REVIEW





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VIEW FROM THE LODGE

OUR PERSONAL APPROACH TO SUPPORTING STUDENTS THROUGH THEIR ACADEMIC JOURNEY REMAINS DEEPLY APPRECIATED

As my second year as your Master draws to a close, the college remains in good health. I base this partly on facts and figures, but more importantly on the many conversations I have had with staff, students and Fellows. All indicate that our sense of community has recovered after the pandemic and that our personal approach to supporting students through their academic journey remains deeply appreciated.

This reflects the care and love that my predecessors invested in Emmanuel. That layering of time is part of our strength and gives us resilience. I sometimes ponder what Emmanuel will look like in 100 years rather than in ten. To help, I have looked back to the Master 100 years ago, Dr Peter Giles, and spent time reading papers from those days to get a sense of his tenure.

1923 was a time of optimism. Advances in science and technology were happening fast: fridges became commonplace, the BBC had started broadcasting, air travel began and television was on the horizon. Women, having finally secured voting rights in 1918, were more independent and employed in more careers than ever before. The so-called 'Roaring Twenties' were set against the backdrop of a nation recovering from the First World War and the Spanish 'flu pandemic. But it didn't last long. Three years later saw the 1926 General Strike. Not long afterwards the Great Depression began.

Emmanuel in 1923 was made up of 14 Fellows and 368 students, of whom 24 were research students, mostly doing PhDs, a degree introduced in 1919. Peter Giles was our Master from 1911 to 1935 and navigated the college through the challenges of those years. It is humbling to see that despite those global storms Emmanuel also evolved. Postgraduate numbers grew, becoming a core part of the academic makeup. Peter also spent time developing harmony within our community.

Today the college has just over 70 voting Fellows, just under 500 undergraduates and around 220 graduates. And we find ourselves in a global context not dissimilar from the 1920s, with advances and breakthroughs in numerous fields, and recovering from a pandemic while managing a cost-of-living crisis. The Mark Twain quote about history rhyming is annoyingly prescient.

But even with all that has happened over the last century, I believe that if I were to sit down with Peter today in the Lodge's sitting room, a room named after him, he would recognise and understand much of today's college.

If I was to do the same in 100 years, with the speed of change much will be different. Very different. I can't help but wonder what would be familiar. Front Court? Supervisions? What will our pastoral care look like? Will every matriculated member still sign in a physical book? Will they all dine in hall? I know what I would like many of those answers to be, but I sense that more would be alien to me than it would be for Peter. The world is evolving faster than ever.

With two years now under my belt, I see my role as helping Emmanuel navigate today's challenges in a manner that keeps us in the vanguard of Cambridge colleges, while setting positive conditions for our successors. That won't be easy, given the growing tension between costs and income. I plan to steer us using three themes. They aren't radical; indeed, having read the beautifully handwritten Governing Body minutes signed by him, I am confident that Peter would recognise them, just as he would be familiar with the tension brought about by today's global fiscal winds.

- ◆ to underpin the individual journey for our students, soon-to-arrive post-docs, Fellows and staff, to ensure we remain a place for talent to develop so that it thrives in tomorrow's world regardless of their background,
- ◆ to strengthen the interdisciplinary serendipity that occurs naturally within our college, to foster the sparks of innovation and breakthrough that occur through planned and chance meetings around Emma,
- ◆ to optimise the use of our facilities and ensure they are fit for our successors.

The Governing Body has consistently pointed us in this direction, with the successful *Emma enables* campaign providing the resources to strengthen each theme through additional student support, the establishment of *Emma experience*, the creation of a post-doc community and new facilities. In the next couple of years, we will continue to evolve along these themes, reinforcing the reputation established by those who have gone before us. And, as importantly, we will continue to do all that we can to strengthen our community, just as Peter did 100 years ago.

Douglas Chalmers, Master

LUNCH AT EMMA ENABLING ENTERPRISE

ANURAG AGARWAL, FELLOW



L TO R MARK GALES, STEVE YOUNG, ANDREW MCDONALD, AND ANURAG AGARWAL IN CONVERSATION AT HIGH TABLE. DR PENNY WATSON WAS IN FRANCE ON THE DAY AND WAS INCLUDED IN THE PHOTOGRAPH USING PHOTOSHOP

Colleges are places that foster interdisciplinary connections. For the Fellows, many of these develop at lunchtime. Anurag Agarwal, Director of Studies in Engineering and Dhruv Sawhney Official Fellow, describes how a series of conversations at Emmanuel's High Table have steered his research in a way that will have an impact worldwide. *Emma enables* has considerably helped him; providing more opportunities for interdisciplinary collaborations is one of our ambitions for the future.

Having lunch at Emmanuel is one of my favourite activities of the day. The discussion with colleagues always leaves me reinvigorated and energised. The casual conversations have played a pivotal role in broadening my research horizons beyond the confines of my departmental lab.

A few years ago, I was working on a research project centred around heart sounds and their significance in diagnosing valvular heart disease. This condition, characterised by incomplete valve opening, produces a distinct heart 'murmur', similar to what we hear when we blow air into a balloon. As an acoustic engineer, I was motivated to uncover the physics of sound production for better diagnosis. I started to discuss my research over lunch in college with my colleague, Professor Mark Gales. Mark, a pioneer in speech recognition, gave a different perspective. He suggested that we could leverage our understanding of physics with the power of machine learning to provide an accurate diagnosis of the disease.

On returning to the engineering department, I relayed the conversation to my PhD student,

OUR ULTIMATE GOAL IS TO TRANSFER OUR RESEARCH INTO CLINICAL PRACTICE TO PROVIDE AN EARLY DETECTION TOOL FOR VALVULAR HEART DISEASE

Ed Kay (Emma 2010). As Ed researched the field, he stumbled on an international challenge focusing on using machine learning to classify heart sounds. We only had a couple of months to learn about the intricacies of the technique and to submit our entry. We ended up winning the third prize at the event, giving us the credibility to secure funding from the Medical Research Council to collect an extensive dataset from various NHS trusts. With the addition of Andrew McDonald, a talented PhD student and now an Emmanuel College Research Associate, we continued our research and developed a new algorithm under the guidance of Professor Gales. We participated in another international challenge in 2022, and this time we won the first prize.

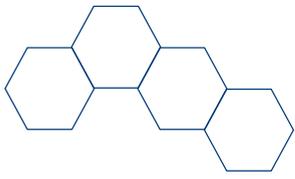
Another type of valve disease, rheumatic valve disease, is endemic in socioeconomically marginalised communities. There are millions of people in India who suffer from it. We sought collaboration from KEM Hospital in Mumbai and a Derek Brewer Fellowship from the college enabled a visit from Dr Girish Sabnis, a cardiologist there. This led to a close collaboration, and continuing exchanges of information and data.

During another serendipitous lunchtime discussion, this time with Dr Penny Watson, I learned that valvular heart disease is an even bigger problem in dogs. That discussion directly led to a collaboration with Penny at the

veterinary school at Cambridge and other centres nationwide to collect data from dogs.

Our ultimate goal is to transfer our research into clinical practice to provide an early detection tool for valvular heart disease. With over two million people living with the potentially life-threatening condition in the UK alone, timely detection is paramount. To achieve this, we are spinning out a company from the university. I had many discussions over lunch with Professor Steve Young, who has been very generous with his time in guiding and mentoring us. Steve is a serial entrepreneur, and his involvement gradually moved from informal advice to a formal role as chairman of the board. Our enterprise needed a name. Another lunchtime discussion helped here. Professor Stephen Oakley, a classicist, blended two Greek words to christen our enterprise: Biophonics. Dr Andrew McDonald is the CEO.

This new chapter presents a very different set of challenges to research. The support from the Master through the development of *Emma enterprise* with its networking opportunities, and discussions with members and benefactors such as Dhruv Sawhney (1962) and his family, have been particularly helpful. Without the support from my Emmanuel colleagues, our project would not have advanced to this stage. We look forward to engaging with the wider college community to bring our technology to clinical practice.



COLLEGES & UNIVERSITY TOGETHER

A generous donation by Derek Finlay (1952), jointly to Emmanuel and the Centre for Misfolding Diseases (CMD) in the department of chemistry, demonstrates very clearly how the university and colleges can work together to create something remarkable. The gift accelerates research by Tuomas Knowles and Michele Vendruscolo into neurodegenerative diseases. They can now act immediately and flexibly to recruit the very best post-docs and graduate students, with the offer of membership of Emmanuel as an added incentive. Chris Dobson scholars at St John's are also Finlay scholars, and the research and colleges will all benefit from these interdisciplinary and intergenerational collaborations.

RECENT RESEARCH HIGHLIGHTS

MICHELE VENDRUSCOLO & TUOMAS KNOWLES

Our goal is to understand the molecular origins of neurodegenerative disorders, including Alzheimer's and Parkinson's diseases, and to open opportunities for drug discovery to prevent, delay or treat these conditions. We have set up an interdisciplinary approach that brings together concepts and methods from chemistry, physics, engineering, genetics and medicine, based on the premise that physical and chemical sciences can all contribute to addressing biological questions about understanding the normal and aberrant behaviours of proteins and their links with human disease.

In our recent work, by using chemical kinetics we have been able to discover the molecular steps that trigger the amyloid beta peptide to transition from its normal soluble healthy state into pathological aggregates found in Alzheimer's disease. We have discovered that these aggregates have a very dangerous propensity to multiply on their own, leading to more and more protein deposition as the disease progresses. The analytical tools we have developed show that the recent drugs that have shown signs of efficacy in the clinic against the progression of Alzheimer's disease are those that prevent or curtail this dangerous self-multiplication process.

UNIVERSITY COLLABORATION

WHAT SETS THE FINLAY PROGRAMME AND THE CMD APART IS THE RICH DIVERSITY OF SCIENTIFIC DISCIPLINES AND THE MULTICULTURAL TAPESTRY REPRESENTED WITHIN ITS RESEARCH COMMUNITY **ELIJAH SUH**



THE UNA FINLAY LABORATORY



MICHELE VENDRUSCOLO & TUOMAS KNOWLES

We have introduced an innovative drug discovery strategy to prevent protein aggregation in neurodegenerative diseases. Recently, the machine learning methods we have incorporated have enabled us to reduce even more the cost and time of drug development pipelines. We are currently applying this approach to disordered proteins involved in other human diseases. These discoveries are increasingly being used by both drug developers and regulators, and unlock the path towards developing more potent and effective drugs against these devastating illnesses.

ELIJAH SUH, FINLAY SCHOLAR

As the inaugural Una Finlay scholar, I have had the privilege to work on an innovative project focused on developing nanobodies (single-domain antibodies) for the detection and quantification of misfolded proteins associated with Alzheimer's disease. Under the guidance of Professor Michele Vendruscolo at the CMD, my MPhil research has centred on constructing a diagnostics system targeting the toxic protein aggregate of amyloid beta.

To augment the diagnostic capabilities of our project, I have incorporated rationally designed protein multimers of varying sizes, ranging from dimers to dodecameric constructs, to enhance nanobody affinity. To achieve this goal, I have employed machine-learning algorithms to bolster experimental advances through computational innovations, and have been using microscopy and solution-based assays on mouse models that mimic Alzheimer's disease.

What sets the Finlay programme and the CMD apart is the rich diversity of scientific disciplines and the multicultural tapestry represented within its research community. I have overcome challenges through the support of the team, fostering chemical solutions through collaborations with our computer scientists and physicists. Our diverse expertise and perspectives cultivate a uniquely vibrant research environment, committed to advancing scientific knowledge and finding solutions to neurodegenerative disorders.



Once upon a time ... back in 2015 my father Derek Finlay attended the launch of the Dear World Yours Cambridge campaign and listened to Professor Sir Chris Dobson. Cut to 2018 and the Chemistry of Health building was opened.

So far so good, but the cavernous empty double height entrance bothered me - an under-utilised space as entrances often can be, a cold expanse of white walls in total contrast to the smaller dynamic workspaces above, inside my mother's laboratory's two floors. (I sound territorial, but our family is so proud to have the link with the scientists working here).

Entrances set the tone of the interior to follow: they can excite or simply flow, but this significant building, finally pulling together the band of scientists that make up the Centre for Misfolding Diseases, had nothing more enticing to walk into ... yet.

So what would suit the main overly tall wall, with various Health & Safety boxes to work around? It needed something to soften the hard angular lines and be welcoming, invigorating and purposeful.

A flash of an idea and then it was obvious ... snakes and ladders - wavy lines, up, down, sideways but not backwards here, like moving cells in a Petri dish viewed through a microscope. Moving in a forward direction: a road map of the progression of the research with key dates as markers and some text. A TIMELINE!

I told Michele and Tuomas of my board game thought. They were both positive and, most importantly, were able to tell Chris, who by then was seriously ill, about the suggestion. He liked the idea and we had his approval to move forward. This felt like a real blessing.

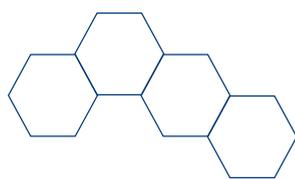
Michele and Tuomas approved the first draft of the artwork. Phew - we were aligned on how the finished work would present. My drawings showed by this stage two elevations - not just the large flat wall as I added the adjacent window wall. Why restrict ourselves to one wall, when in fact the cell snake could ultimately go through the building?

There were a myriad of components to be carefully considered. How many dates? Where would the line wander? What size font? It had to be legible at height. Typeface and size,

THE FINLAY FAMILY ARE INTEGRAL TO OUR RESEARCH, AND FIONA'S TIMELINE INSPIRES US ALL MICHELE & TUOMAS

FIONA S FINLAY

THE TALE OF THE TIMELINE



tone and thickness of the cell background? Text content and key? The different shapes and sizes of symbols were wrapped with digitally produced finishes of stainless steel, glass and wood.

The end result is the simplest of appearances, a clinical clarity, legibility and inspirational quotes from Stephen Hawking and Chris himself, using the smaller balcony space to good effect.

The aim was to record the progress to date, but what is so striking is the line of cells on the adjacent wall devoid of dates, waiting for the future research successes to come. That is what this building is about.

There's no happy ending yet to misfolding protein diseases but the timeline will continue to record progress. The time will come.



EMMA POST-DOCS

For the first time since 1584 we are introducing a totally new group into Emmanuel: neither Fellows nor students, these are post-docs, early career researchers. This has been one of our ambitions with *Emma enables* and we're making good progress. Aiming to have around 100 by 2025, the first 41 will join us in October 2023. They will come from academic disciplines ranging from architecture to zoology, human rights to medical science. There will be a focus on sustainability in this first group, so 12 are researching issues around climate change and conservation. The group will be supported by the *Emma experience* director, who will develop the scheme and provide secretarial support, ensuring they are well integrated into the college community.

WHY ARE WE DOING THIS?

Post-docs are now the largest single intellectual grouping in Cambridge, making up more than 35 per cent of the university's staff. They are also the most diverse staff group by nationality, coming to Cambridge from over 95 countries around the world.

Despite their importance, post-docs lead a precarious existence: most are dependent on short-term project funding for between one and three years, and 80 per cent have no college affiliation. Life can be lonely, many feel invisible and the short-term nature of contract research can make it difficult for them to fit into a large institution like Cambridge. Most have no access to the networks, opportunities and resources that are available to every other part of the university's and colleges' intellectual community.

Post-docs face other challenges too. The nature of undergraduate teaching at Cambridge provides researchers with limited opportunities for lecturing, and for the post-docs without a college affiliation, access to teaching experience via supervisions can be hard to come by.

Emmanuel can help. We can give these researchers a home, somewhere to meet and exchange ideas with those in other disciplines, opportunities to teach and help students, and a chance to be assisted by senior academics. Offering membership of a college can help our academics attract the very best researchers.

BENEFITS OF BECOMING AN EMMANUEL COLLEGE RESEARCH ASSOCIATE (CRA)

- ★ MEMBERSHIP OF THE COLLEGE AND ACCESS TO ITS INTERDISCIPLINARY COMMUNITY
- ★ OPPORTUNITY TO MAKE INFORMAL CONNECTIONS WITH PHD STUDENTS AND FELLOWS WITH SHARED RESEARCH INTERESTS, AND TO BE INVOLVED IN MENTORING SCHEMES
- ★ ACCESS TO A WIDER ACADEMIC NETWORK WITH OPPORTUNITIES FOR TEACHING, WHERE APPROPRIATE. THIS CAN HELP THE COLLEGE HAVE MORE CONTINUITY IN TEACHING PROVISION.
- ★ MEMBER OF THE RESEARCH ASSOCIATES' SOCIETY AND ITS EVENTS
- ★ SPECIAL DINNERS AND ADDITIONAL FORMAL HALLS FOR CRAS AND THEIR GUESTS
- ★ ABILITY TO ATTEND AND CONTRIBUTE TO ACADEMIC AND OTHER EVENTS IN EMMANUEL
- ★ USE OF COLLEGE FACILITIES INCLUDING THE SEMINAR AND MEETING ROOMS, LIBRARY, CAFETERIA, BAR, FIONA'S, LOCKERS AND SHOWERS, AND GUEST ROOMS

SELECTION OF POST-DOCS

WE ARE RECRUITING THOSE WHO:

- ★ SUPERVISE FOR US OR OTHERWISE HELP
- ★ WORK CLOSELY WITH A SPECIFIC FELLOW
- ★ HOLD HERCHEL SMITH FELLOWSHIPS WITHIN THE UNIVERSITY, REFLECTING EMMANUEL'S ASSOCIATION WITH HERCHEL SMITH
- ★ EMMA MEMBERS WHO ARE POST-DOCS IN THE UNIVERSITY
- ★ IN SUBJECT AREAS THAT HAVE BEEN SPECIFIED BY DONORS TO *EMMA ENABLES*, INCLUDING
 - ✦ ASTRONOMY, MATHS & PHYSICAL SCIENCES
 - ✦ BIO-MEDICAL SCIENCES
 - ✦ VACCINES
 - ✦ NEURODEGENERATIVE DISORDERS
 - ✦ CONSCIOUSNESS, NON-REDUCTIVE & INTEGRATIVE APPROACHES TO NATURE, & THE RELATION BETWEEN SCIENCE & NATURE
 - ✦ HUMAN RIGHTS
 - ✦ LAW, HISTORY, FAR EASTERN/CHINA STUDIES
 - ✦ UK/INDIA STUDIES
 - ✦ NEW ZEALAND ACADEMICS
- ★ IN CERTAIN SUBJECT AREAS, TO ACHIEVE CRITICAL MASS OF SHARED RESEARCH INTERESTS

OUR NEW POST-DOCS SAY

I'm keen to get more experience with administration and mentoring students.

If there is a chance to teach or direct studies, that would be terrific.

I come from a diverse background ... Through these experiences, I have gained a unique perspective that I believe will bring value to the Emma community. Moreover, as a mother, **I understand the challenges that parents face in balancing work and family life.**

Emmanuel has been my home during my PhD and the college provided a large part of my funding, great accommodation, and other financial and welfare support. All this allowed me not only to focus on my research, but also to get through more difficult moments, including the Covid-19 pandemic. **I have always enjoyed the relaxed but intellectually rigorous atmosphere that characterises Emmanuel.** This is why Emmanuel is my first choice for a potential affiliation as a post-doc.

The academic environment with students and scholars from diverse backgrounds will not only stimulate my own research but also foster collaborative ideas. In addition, the privileges will allow me to **extend my academic interests beyond science.**

Given my relatively different training in the United States, I expect that my experiences will provide a contrast during any supervising that I do. This would also allow me to **learn about how teaching is done** in the UK, and about the needs of students at Emma.

While I'm at an excellent institution for cutting-edge science, **I would really enjoy discussions with academics from non-scientific backgrounds.** I could contribute to discussions on major issues that face our planet: I am passionate about alternative food and energy production, strategies to combat climate change and artificial intelligence. **I am also interested in mentoring students** should such an opportunity arise.

FOR THE FIRST TIME SINCE 1584 WE ARE INTRODUCING A TOTALLY NEW GROUP INTO EMMANUEL: NEITHER FELLOWS NOR STUDENTS, THESE ARE POST-DOCS, EARLY CAREER RESEARCHERS

THE EMMA ENTREPRENEURS' WORKSHOPS

PETER PARKES, 2003

How can I turn my idea into a viable business? How do I find customers? How do I raise money and hire a team? These are some of the questions that the Emmanuel Society's entrepreneurs' workshops have helped to answer for our members.

In March 2021, Sarah Bendall and I gathered a group online to discuss how Emma could better support the needs of our entrepreneurial members. At the time, I was running a small software startup and contemplating many of these questions myself: what was our next move? Should we take on an additional employee? Should we raise more money now or later in the year?

During that initial workshop, our discussion was wide-ranging, but one theme was clear: everyone present wanted to get together on a more regular basis, to discuss topics of interest and to gain insight, ideas and inspiration from other members.

Since then, we have met over 20 times and have talked about everything from motivating staff to working with investors, with each session kicked off by a different Emmanuel entrepreneur telling their story. We've heard from Michelin-starred restaurateurs and financial empowerment champions, from health tech disruptors to climbing wall builders, all in an informal setting that gives everyone an opportunity to ask questions and join in the conversation.

My own entrepreneurial journey started at Emmanuel: it's where I learned to challenge ideas and to communicate clearly; it gave me the freedom to experiment; it's how I met many of the people who support me in my business endeavours today.

Nevertheless, there's a more practical aspect to running a company that hasn't historically been a focus of the Cambridge experience, and it's this gap that we seek to bridge with our monthly workshops as part of the *Emma experience* programme.

WE'VE HEARD FROM MICHELIN-STARRED RESTAURATEURS AND FINANCIAL EMPOWERMENT CHAMPIONS, FROM HEALTH TECH DISRUPTORS TO CLIMBING WALL BUILDERS, ALL IN AN INFORMAL SETTING THAT GIVES EVERYONE AN OPPORTUNITY TO ASK QUESTIONS AND JOIN THE CONVERSATION **PETER PARKES**

EMMA ENTERPRISE



AN EMMANUEL ENTERPRISE COMPETITION

STEVE YOUNG, FELLOW

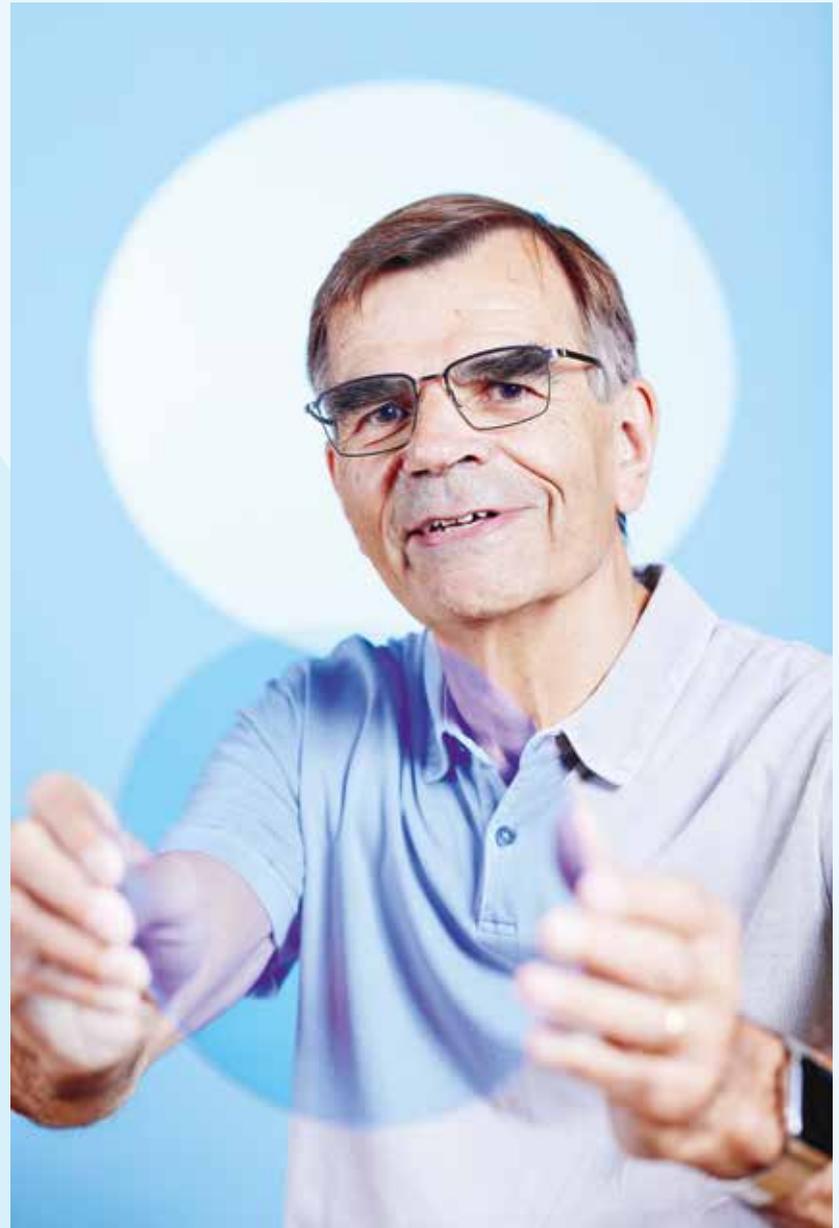
Entrepreneurship today means much more than simply starting a new business to make a profit: it is the principal route to innovation and change. Profit is still important, not least because it is the key ingredient for making an enterprise sustainable, but the modern entrepreneur is motivated primarily by a desire to solve problems, to be creative, to make a difference and have a social impact; making money is often secondary.

As an academic, I quickly learned I needed entrepreneurial skills. To pursue effective research in the sciences, you need to win grant funding and build a team of PhDs and post-docs; to do that requires innovative thinking, good communication skills and the ability to lead. For me, publishing papers was not enough. My research area is speech recognition, and my aim was to build a machine that you could query and instruct simply by talking to it. To realise this dream required moving technology from the laboratory into real systems that people could use in their daily lives. Start-up companies provide an ideal vehicle. I sold Entropic to Microsoft in 1999, Phonetic Arts to Google in 2010 and VocalIQ to Apple in 2015. In each case, the technology we developed was embedded into these companies' systems and used by millions.

We recognise the value of entrepreneurship both for its direct ability to effect change and also because it embodies skills that are reusable across a wide range of careers. To give students and post-docs an opportunity to gain hands-on experience, we are launching an enterprise competition, to provide practical experience in developing and pitching a business or social enterprise idea.

There will be three stages. In Michaelmas term, online tutorials will cover areas such as pitching an idea, financing, creating a team, marketing and product development. In Lent term, short-listed teams will develop their business idea, helped by a mentor, and then at the start of Easter term the teams will pitch their ideas and be judged in a final.

SOLVING PROBLEMS AT A SCALE THAT IMPACTS



THE MODERN ENTREPRENEUR IS MOTIVATED PRIMARILY BY THE DESIRE TO SOLVE PROBLEMS, TO BE CREATIVE, TO MAKE A DIFFERENCE AND HAVE A SOCIAL IMPACT; MAKING MONEY IS OFTEN SECONDARY **STEVE YOUNG**

For more information about the Emmanuel enterprise competition see www.emma.cam.ac.uk/enterprise

THE EMMA EXPERIENCE JOURNEY



DANIEL

FABIAN

LUKAS

After the successful completion of the pilot programme, *Emma experience* director Daniel McKay sat down with Fabian Apostoaie and Lukas Pin (presidents of ECSU and the MCR respectively), and students Ashwin Gohil (undergraduate) and Grace Kromm (post-graduate), to discuss their engagement with the project, current challenges and what the future might hold.

DM: Thank you so much for agreeing to come and chat about *Emma experience* on this warm summer's eve. As we reach the end of the year it's a wonderful chance to reflect. In all your different ways, you've played your part in making the first year a success. We are now at the end of the two-term pilot and I'm keen to hear your thoughts.

What were your first impressions of *Emma experience*?

GK: I think for me, *Emma experience* has given a platform for postgraduates, undergraduates, even Fellows and alumni, to come together in ways that we don't usually. Whether it's something informal like Scriptorium [weekly drop-in sessions to write and work together],

IT'S BEEN A GREAT CHANCE TO DEVELOP SOFT SKILLS TOO. EVENTS LIKE LEADERSHIP AND WRITING GO HAND IN HAND WITH YOUR STUDIES **ASHWIN**

THE PROJECT IS TRYING TO COMPLEMENT YOUR ACADEMIC STUDIES AND HELP GIVE YOU THE TOOLS AND OPPORTUNITIES TO MAKE THE MOST OF WHAT YOU'VE LEARNED HERE **DANIEL**

or even working out in the Paddock, we can start building those bridges.

FA: It hasn't felt like we've taken some outside thing and fastened it on. It feels like a natural addition to college life.

AG: It's been a great chance to develop soft skills too. Events like leadership and writing go hand-in-hand with your studies.

DM: What is the most memorable *Emma experience* event you've been to this year?

LP: Definitely yoga in the chapel; it increased my wellbeing during exam period. I've heard lots of good things about the Scriptorium too. It's so nice to come together with a coffee once a week instead of sitting alone in the library, especially for postgrads who are quite isolated at times.

FA: And that point as well, about space, it's such a remarkable use of all the different areas of college.

DM: We're trying to make the most of this beautiful site.

Has something you've heard or seen during an event set off your thinking?

GK: I would say the Women's Leadership Forum. This was bringing together a panel of Emma members to speak about their experiences and challenges. There are so many members of Emma who we know by their titles, but we don't get the chance to meet them.

DM: The project is trying to complement your academic studies and help give you the tools and opportunities to make the most of what you've learned here. But what kind of challenges do you think our generation faces?

LP: Mental wellbeing, and I think it shows by the number of people who attend the yoga sessions or who went to the stress management workshop.

GK: I was going to say the same thing. Being physically present with other people. A lot of the current students had some years online or part of a year online, and being together is something so valuable.

FA: There is a lot of change in the world. I think that *Emma experience* goes a bit of a way to reassuring people that there have

YOGA IN THE CHAPEL; IT INCREASED MY WELLBEING DURING EXAM PERIOD. I'VE HEARD LOTS OF GOOD THINGS ABOUT THE SCRIPTORIUM TOO **LUKAS**



GRACE

ASHWIN

been turbulent times, and lots of people have been as uncertain as you about what comes next. That's very motivating for students wanting to engage with college life.

DM: Do you think there are particular challenges that undergraduates and postgraduates face, because you're on different stages of your journey?

FA: For an undergraduate there are a lot of choices that feel like they're very impactful, and there are a lot of questions about what to do after your degree, because the world really does open in quite a dramatic sense. It's daunting.

GK: I think for postgrads, it's a bit different, because we're doing something so specific in our subject and it can be very easy to have that consume your entire life. *Emma experience* really lets you see that there is possibility for more outside our studies.

AG: There's something distinctly modern about it.

FA: Something that students always bring up to me is that they don't feel like they're doing enough. *Emma experience* gives people a way to feel like they've made a step out there. It's not simply about doing more, it's about expanding your vision. What you could do.

LP: *Emma experience* showed me that change is possible in an institution like this.

EMMA EXPERIENCE CAN REALLY ADAPT TO EACH GENERATION THAT COMES THROUGH GRACE

GK: And we can be involved in that change. That we can use our own ideas for events, to do what we've always wanted to do, but never really had the institutionalised ability to do so before.

DM: It's all about making the magic happen and responding to these challenges and I'm starting to plan a whole programme for next year. What would you like to see more of?

GK: Something like a fireside chat with the faculty and staff. Those in leadership positions that we think of as a name on an email, it would be amazing to get their real-life perspectives.

LP: I think the ultimate goal is that people open the *Emma experience* newsletter, *The Acorn*, and know what is happening in college. Especially the postgrad community where we have part-time students or people who partially work, it would help them to engage more.

FA: Tying it in with the history of this place, it feels very cohesive, like one large extended college community, both new and old at the same time.

GK: *Emma experience* can really adapt to each generation that comes through. It will be exciting to see how it evolves and develops.

DM: Finally, what is your advice to incoming students next year and why they should get involved with the *Emma experience* programme?

GK: I would say very simply that it's a great way to meet people who you might not be able to meet otherwise. See who else is at this amazing place.

LP: I think *The Acorn* is a great way to find out what's happening in Cambridge. Whatever you need in a certain moment you will find it.

AG: Make the most of every opportunity and if you go to an event that you end up not enjoying, at least you've given it a go. You never know who you're going to network with.

FA: The events are a simple thing to just turn up to, be who you are, and see what happens.

DM: Grace, Fabien, Ashwin and Lukas, thank you so much for this conversation. It's very enjoyable to hear that everything has been received so well and I look forward to next year.

WWW.EMMAEXPERIENCE.UK

EMMA EXPERIENCE GIVES PEOPLE A WAY TO FEEL LIKE THEY'VE MADE A STEP OUT THERE. IT'S NOT SIMPLY ABOUT DOING MORE, IT'S ABOUT EXPANDING YOUR VISION FABIAN

MUSIC BUSINESS

PADMANABHAN KODUVAYOOR PARASURAMAN (2022)

I decided to pursue a Master's degree during the peak of the pandemic. Before then, I was pursuing dual careers, as a technology consultant and a professional musician, and in my comfort zone.

Through reflection during the stillness, I felt I needed to pursue my core passions of creativity and technology, and to weave them into my career. Funding from the Emmanuel India Trust has helped me come to the Cambridge Judge Business School and concentrate on creative arts, media and technology.

Music has always been in my life. Even when we've parted company, it has always found me again and I keep returning to it to find serenity. I've been learning Carnatic music, a South Indian musical form, for over 20 years. It is closely tied to the Hindu religion, and most of its compositions reflect devotional aspects. It has also found its place within fusion music and Indian cinema music. It takes years of rigorous practice to master, but it channels human emotions through the universal 12 notes.

Over the past few years, I have aimed to propagate Carnatic music outside its traditional spheres, and to increase awareness of it and access to it. Performing and presenting lecture demonstrations across Cambridge, including in the college chapel, has helped me further my cause and showcase music's universality.

THROUGH REFLECTION DURING THE STILLNESS, I FELT I NEEDED TO PURSUE MY CORE PASSIONS OF CREATIVITY AND TECHNOLOGY, AND TO WEAVE THEM INTO MY CAREER



MULTIMEDIA HEALTHCARE

TOBY SMALLCOMBE (2020)

THIS WAS AN UNMISSABLE AND EYE-OPENING EXPERIENCE. MY PERCEPTIONS OF WHAT A MEDICAL CAREER CAN ENTAIL HAVE BEEN BROADENED BEYOND ANYTHING I COULD HAVE IMAGINED IN THE UK

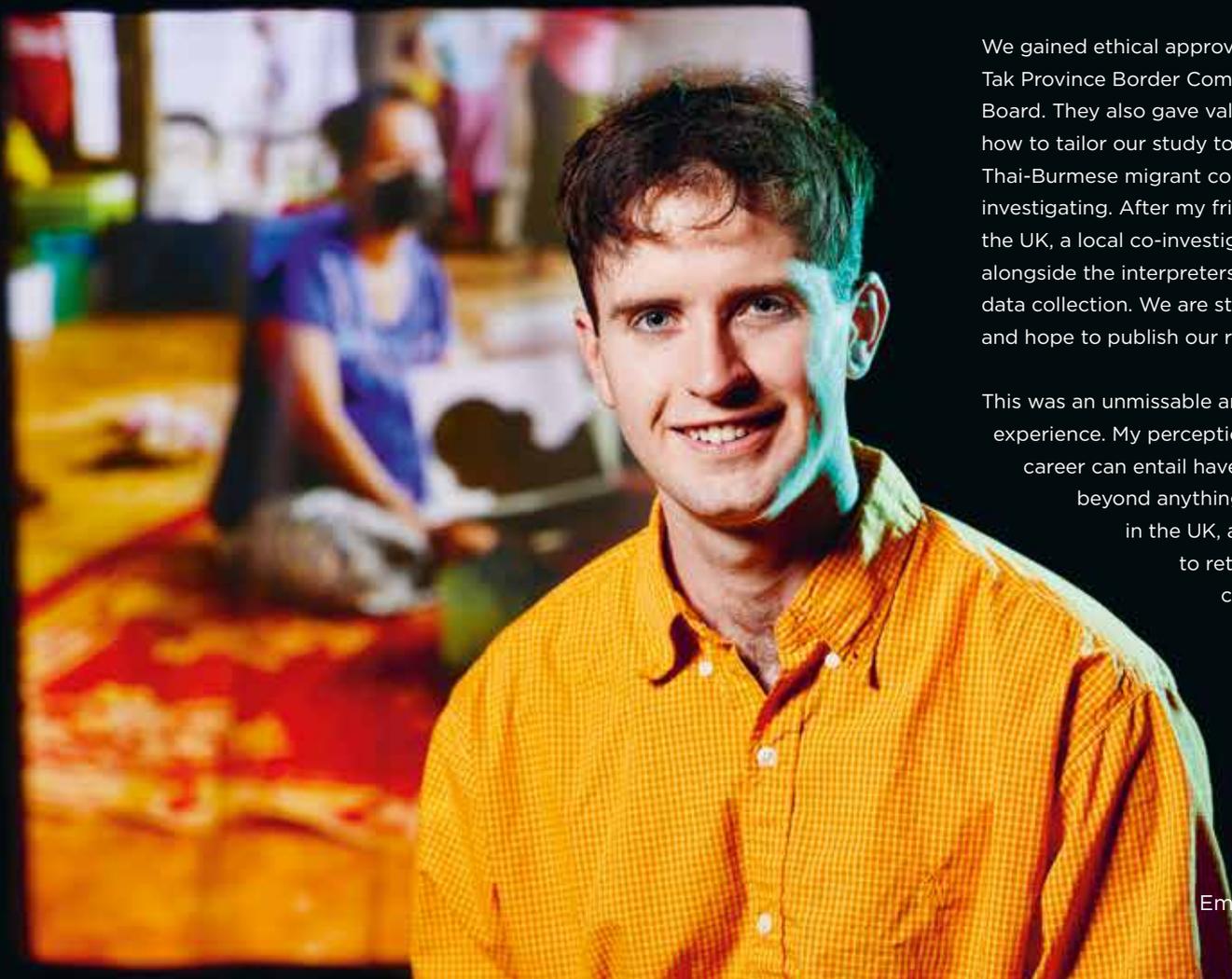
I am reading medicine, and last summer I had a rare opportunity to carry out a research project in Thailand when the country suddenly dropped COVID-19 travel restrictions. Supported by Emmanuel's Pozzi Fund, I hastily arranged my flights to Bangkok and was lucky enough to work with the Shoklo Malaria Research Unit (SMRU) in Mae Sot on the border with Myanmar.

Working in clinics and remote sites under the supervision of Dr Rose McGready, a Cambridge friend and I investigated the role of multimedia in antenatal healthcare. This was especially important in Mae Sot, where there was a very large Karen migrant population that had fled repression and violence in Myanmar.

We wanted to determine whether showing a video outlining the nature of and reason for medical procedures a pregnant woman undergoes on her first antenatal visit would enable counsellors' time to be spent more effectively, focusing on patients' questions and decisions that need to be made. In this environment, where weather and other conditions require electronic equipment to be replaced regularly, it is important to know whether video education could be helpful before seeking larger-scale investment to deliver a programme more generally.

We gained ethical approval for our trial from the Tak Province Border Community Ethics Advisory Board. They also gave valuable advice about how to tailor our study to benefit further the Thai-Burmese migrant communities we were investigating. After my friend and I returned to the UK, a local co-investigator continued to work alongside the interpreters and complete the data collection. We are still processing the data, and hope to publish our results later this year.

This was an unmissable and eye-opening experience. My perceptions of what a medical career can entail have been broadened beyond anything I could have imagined in the UK, and I hope I will be able to return in the future to continue working there.



Since I was young, I have been fascinated by polar environments. The allure of Earth's final frontiers prompted me to focus on glaciology, polar geopolitics and environmental science during my four years at Emmanuel.

I was therefore thrilled to be offered the opportunity to travel to the Antarctic for six weeks onboard the Royal Navy's ice patrol vessel, *HMS Protector*.

I was welcomed by a crew who shared a love of nature, hardiness of character and a determination to support Antarctic science. I followed a steep learning curve, beginning with my discovery of the 'call to hands' at 7am, which can be likened to an alarm clock without a snooze button ... but despite the military schedule, it became clear that objectives and priorities are governed primarily by nature. Icebergs, fogs and 70-knot winds were commonplace, and I admired how the crew were able to operate whilst I was battling to stay on my feet!

I was involved in emergency drills, gunnery practice, training exercises and navigation, all taking me into the heart of the ship's company. The highlight was a day ashore at St Andrew's Bay, South Georgia, where 150,000 breeding pairs of king penguins live alongside fur and southern elephant seals, resembling a scene from David Attenborough's *Frozen Planet*.

It was incredible to hear stories of polar exploration and to learn about environmental change from the island's inhabitants. I was delighted to enrich the affiliation and legacy that Cambridge has within Antarctic science, and I am grateful to the crew and the support of Emmanuel for giving me this opportunity.

I WAS DELIGHTED TO ENRICH THE AFFILIATION AND LEGACY THAT CAMBRIDGE HAS WITHIN ANTARCTIC SCIENCE, AND I AM GRATEFUL TO THE CREW AND THE SUPPORT OF EMMANUEL FOR GIVING ME THIS OPPORTUNITY

THE PROTECTOR

SAM DUTNALL (2018)



ORGAN TRANSPLANTATION & THE GIFT OF LIFE

ABBIE GREIG (2019)



Organ transplantation is one of modern medicine's greatest achievements. It is now relatively routine, but at the same time it is celebrated as the 'gift of life'. But what does that mean for those who receive this extraordinary gift? For them, there is much more to the procedure than living for longer.

My aim is to advance our understanding of transplantation beyond its current medical focus. I am looking at the lived experience of receiving an organ. With my background in health geography, I was curious about how it felt to wait for and live with an organ from another human. I wanted to know what this meant for the continuing health and wellbeing of transplant patients, and how procedures might reflect this.

Working with a consultant transplant surgeon at Addenbrooke's Hospital, I have interviewed many recipients of a heart, kidney or liver from a deceased donor. Exploring issues such as guilt and gratitude, the spatial and temporal relationships that precede and follow surgery, and the personal and social identity of recipients, I have shown that understanding the sociocultural context of organ transplantation is as vital for successful outcomes as biomedical research.

I have been privileged to hear the stories my participants have shared with me: moving testimonies of hope and fear, long waiting, and the constant work of recovery. This has only been possible through the PhD studentship I have received from Emmanuel, for which I am extremely grateful.

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MY PARTICIPANTS HAVE SHARED WITH ME: MOVING
TESTIMONIES OF HOPE AND FEAR, LONG WAITING,
AND THE CONSTANT WORK OF RECOVERY

EMMA ACCESS & OUTREACH

FRANCESCA MANN (SCHOOLS LIAISON OFFICER)
DR CORINNA RUSSELL (DEPUTY SENIOR TUTOR)

BUILDING BACK AND LOOKING AHEAD

After the restrictions of the pandemic, schools have been enthusiastic about coming to Emmanuel this year and the numbers passing through the Front Court gates have bounced back. We've been keen to remove as many barriers as possible to visits from schools in our link areas and, thanks in part to a donation from an Emma member that enabled us to help with travel costs incurred by schools in greatest need, the number of visits from schools in Sheffield has doubled. With the return to a fuller community life, too, undergraduates have wanted to contribute to outreach work, and our Schools Liaison Officer (SLO) has provided training and support for our 'Emmbassadors' and ECSU officers, providing skills and experience that benefit our current and future communities.

The next phase of *Emma enables, Emma evolves*, brings opportunities to build on the foundations not only of our new buildings but also of our growing understanding of the impact of outreach work. Generous donations are allowing us to appoint an Outreach and Widening Participation Coordinator to work alongside the SLO, increasing our capacity to deliver the kind of long-form, multi-dimensional programmes that have the highest impact. This will also allow us to take a strategic overview of outreach in the college, and look at best practice across the university and by specialist third-party organisations.

TO ESTABLISH SUSTAINED AND MEANINGFUL RELATIONSHIPS WITH SCHOOLS IN ESSEX AND SHEFFIELD, THE SLO AND UNDERGRADUATE VOLUNTEERS HAVE BEEN TO MANY OF THE SCHOOLS WHO WERE WELCOMED TO EMMANUEL

IN-PERSON VISITS TO COLLEGE

Since October, 17 schools from Essex and Sheffield have visited, allowing over 450 students to gain insights into student life by touring Emmanuel, participating in mock seminars, and meeting the undergraduate 'Emmbassadors'. By answering questions from school groups and sharing their experience of studying at Cambridge, these students act as important role models. One teacher told us that their year-11 head girl was so inspired by an Emmbassador studying law that, as a school competition prize, she wanted to receive books that our student had recommended.

In June and July, 12 more schools came to Emma. We also hosted visits organised by organisations we are partnered with, such as The Brilliant Club.

VISITS TO LINK AREAS: ACCESS BUS AND SLO MARCH TOURS

To establish sustained and meaningful relationships with schools in Essex and Sheffield, the SLO and undergraduate volunteers have been to many of the schools who were welcomed to Emmanuel. Last September, the annual access bus re-established connections with schools following the pandemic: across six days, sessions focused upon busting Cambridge myths were delivered in 15 schools to 2375 students from years 7 to 12. In March, the SLO collaborated with Magdalen College, Oxford in giving talks

HIGHLIGHTS OF 2022-23

Twenty-six different schools from our link areas visited Emmanuel, and three of the top priority schools in this group visited twice

Overall, 1032 students visited Emmanuel through outreach events we hosted

Many more students from schools across the country had the opportunity to visit Emmanuel through our partnership with The Brilliant Club and Into University

With the access bus last September, we visited 15 schools and delivered sessions to 2375 students

In March, the SLO visited 14 schools and gave 22 sessions to nearly 1000 students

In February-April, 21 year-11 BME students took part in a shadowing scheme

in Sheffield, and was struck by the schools' eagerness to establish a connection with Emmanuel before opening new sixth-forms later this year. Twenty-two sessions on university life, applying to Cambridge and more were delivered in Essex and Sheffield to nearly 1000 students. Some of them remembered the current SLO's previous visit when she was an undergraduate volunteer and said that they were now aiming to apply to Cambridge, which demonstrates the impact of organising regular sessions with particular schools.

We've also been invited to build closer relationships with community groups and schools in Sheffield, thanks to the Director of Education and Skills at the City Council, and have recently met headteachers, representatives of local area committees and others with expertise in the educational experiences of young people in the city.



FRANCESCA



CORINNA

WE HAVE RECENTLY MET HEADTEACHERS, REPRESENTATIVES OF LOCAL AREA COMMITTEES AND OTHER RESIDENTS WITH EXPERTISE IN THE EDUCATIONAL EXPERIENCES OF YOUNG PEOPLE IN SHEFFIELD

ECSU SHADOWING SCHEME AND OTHER ONLINE INITIATIVES

We have continued our online outreach initiatives through webinars with able and aspiring students over four weeks. ECSU's BME shadowing scheme from February to April aimed to inspire students about their subjects as well as to encourage them to apply to competitive universities. Twenty-one year-11 UK students from a racial or ethnic minority took part. They watched specially recorded lectures by Emmanuel Fellows, attended weekly mentoring sessions with current undergraduates, and completed a task for an online supervision. They found

it stimulating to learn about Cambridge from their mentors, and also developed their essay writing and research skills. At a celebration day, students met the Fellows and mentors with whom they had interacted online and were awarded certificates by ECSU's Racial Equalities Officer. All the students and parents said that the event had improved their understanding of Cambridge and that they would recommend the scheme to someone else.

The SLO has also been running the 'Next Steps Essex' and 'Next Steps South Yorkshire' webinar series in collaboration with Hertford

and Magdalen Colleges, Oxford. Targeted at year-12s aspiring to apply to Oxbridge, it covered topics ranging from the application process, to critical thinking skills and writing personal statements.

Both 'Next Steps' and the ECSU shadowing scheme were attended by students from the schools who have worked with Emmanuel through other outreach activities. It is encouraging to think that this continuing and deepening contact with us may well, we hope, enable these students to develop the confidence and skills to aspire to a university such as Cambridge.

NEW BUILDINGS THAT ARE ACCESSIBLE, SUSTAINABLE & BEAUTIFUL



TYLER'S GARDEN LOOKING TOWARDS FIONA'S

On 8 July, at a celebration of *Emma enables*, donors and their families explored the new facilities they'd helped us provide.

These include:

- ◆ a new court, Young's Court, with 48 new student rooms, allowing all undergraduates to be housed on the main college site for three years;
- ◆ a new MCR and meeting and seminar rooms in Furness Lodge;
- ◆ a new college bar with *Mike's* lounge bar adjacent to it;
- ◆ the '1980 Crew Room' event space for large parties;
- ◆ and three new music practice rooms.

SOME KEY FEATURES

Fully accessible spaces include three accessible study-bedrooms, adjustable kitchen counters in the ground-floor gyp rooms, and lift access to new study spaces in Furness Lodge.

Young's Court is built using handmade bricks from Danish company Petersen Tegl, which has been run by the same family since 1791. They continue the same traditional processes that have been used for centuries at their brickworks at Nybøl Nor.



YOUNG'S COURT

SUSTAINABILITY HAS BEEN A KEY FEATURE OF THE PROJECT

- ◆ During clay extraction for the bricks, the top layer of ground is set aside to be replaced afterwards, so the soil and groundwater are unaffected by the digging. All extracted clay is used, with any off-cuts or spare clay recirculated back into production. All water used in the process is recirculated, decreasing water consumption by 75 per cent. Heat from the furnaces is used twice, both to dry and to burn the stones, thus reducing to a minimum the unavoidable environmental costs of producing the extreme heat needed while firing.
- ◆ An open-loop ground-source heat pump provides heating and cooling, with combined heat and power for domestic hot water and electricity.
- ◆ Photovoltaic cells have been installed on the roof of South Court.
- ◆ Rainwater is harvested for irrigation and WCs.
- ◆ Wood panelling in Young's Court is made of Douglas fir treated with lye, echoing that in the college bar and *Fiona's*.



PARK TERRACE FRONTAGE, WITH PEDESTRIAN & CYCLE ENTRANCE



NEW COLLEGE BAR



INSIDE THE PEDESTRIAN & CYCLE ENTRANCE

CELEBRATING THE EMMA ENABLES CAMPAIGN SATURDAY 8 JULY 2023





ALL PHOTOS STEPHEN BOND

THANKING DONORS

Support from our members means a great deal to the college and we say thank you in various ways:

ALL BENEFACTORS

- are listed in the *Emmanuel Review*
- receive invitations to occasional events in college, including garden parties for donors
- are invited to an annual occasion for all donors in the previous year

ALL WHO PLEDGE LEGACIES TO EMMANUEL

- receive invitations to occasional events in college, including garden parties for donors
- are invited to join the Frankland Society

LOYAL DONOR CIRCLE

Donors for past 10 years

- are able to dine at High Table for a third time each year
- are listed as such in the *Emmanuel Review* with a [*]

MASTER'S CIRCLE

£10 000 or more received

- are offered membership of the Master's Circle and invited to an annual dinner in college
- £50 000 or more received
- are offered membership of the Master's Circle and invited to an annual dinner in college
- are invited to the annual Gomes lecture and dinner
- £100 000 or more received
- are offered membership of the Master's Circle and invited to an annual dinner in college
- are invited to the annual Gomes lecture and dinner
- are invited to a Fellows' Guest Night in May or December

BENEFACTOR BYE-FELLOWS

£250 000 or more received

- receive invitations to a number of college events
- are able to dine at High Table on a number of occasions each year
- are listed in the *College Magazine* and the *Cambridge University Reporter*
- are admitted at a ceremony in the Parlour
- have their names recorded on a board in the Old Library

BENEFACTOR FELLOWS

£1 000 000 or more received

- receive invitations to many college events
- are able to dine at High Table on several occasions each year
- are listed in the *College Magazine* and the *Cambridge University Reporter*
- are admitted at a ceremony in the Parlour
- have their names recorded on a board in the Old Library

EMMA GIVES GIVING DAY 2023

Our fourth Giving Day was held over 24 hours on 14–15 March, raising £115 866 from 338 donors. It focused on student support, and gifts will help with everything from providing grants for counselling sessions to enabling schools in our Link Areas to visit Emma by covering travel costs. Many members, staff, Fellows and students also contributed an 'Acorn of Kindness'. Each featured positive advice, stories of kind acts, inspiring quotes, or dedications to Emma people and they were displayed in college on the day.

WE HAVE WELCOMED THIS YEAR

BENEFACTOR FELLOWS

William Harris (1996)
& Heather Adkins (2022)

BENEFACTOR BYE-FELLOW

Graham Platts (1978)

LEGACIES

From the earliest years of the college, legacies have played an important part in building it up as a place of outstanding research and education. There are several ways to include Emmanuel in your Will. Please ask the Development Office for a brochure with further information about suggested wordings, different types of bequest, and how a legacy could reduce inheritance tax liability; or see www.emma.cam.ac.uk/legacies. We also suggest you consult your solicitor.

THE FRANKLAND SOCIETY

Named after our first benefactor, Joyce Frankland, membership of the Society thanks legators for committing to support Emmanuel's future and has around 250 members. This year it met online. The Master updated attendees on the year in college, legacy beneficiary Sophie Rhodes spoke about research for her PhD and undergraduate Yen Li talked about her time at Emma. We look forward to inviting members to future events.

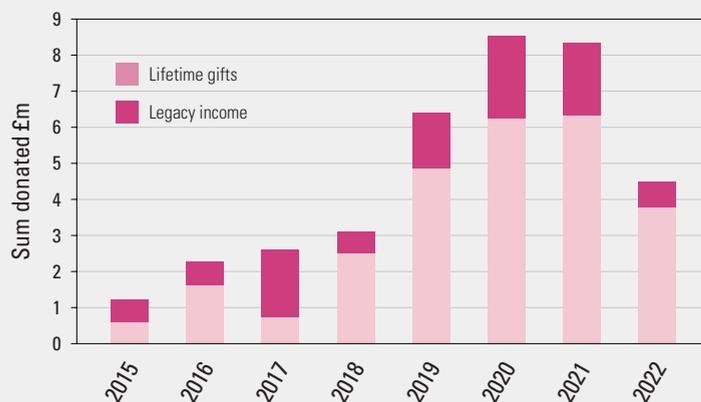


EMMA ENABLES 2015–2022

EMMANUEL'S MOST SUCCESSFUL CAMPAIGN EVER

£38m raised, to support academic and community life & growth **3000** DONORS
32% of members made a gift **Fellows, members, parents, staff and students all contributed** Just over **10%** of donors made their first gift
FIRST EVER £1m+ LIFETIME GIFTS WERE MADE Nearly **£6m** was raised from **2577** gifts of under **£25,000** **Donors came from 37 countries** **88%** OF FUNDING CAME FROM DONORS IN THE UK & USA

TOTAL ANNUAL PHILANTHROPIC INCOME 2015–2022



FUNDS RAISED DONATIONS 1 JUNE 2022 TO 31 MAY 2023

DONATIONS RECEIVED AND RECEIVABLE	£6 010 349
GIFTS IN KIND ¹	£232 544
LEGACIES PLEDGED	£50 000

¹ Fees not charged for managing part of the college's investment portfolio and for consultancy regarding fundraising

HARDSHIP FUNDS AND RENT BURSARIES 2021-22

193 GRANTS
£299 999 AWARDED
£177 355 FROM HARDSHIP FUNDS, BALANCE FROM ENDOWMENT

GRADUATE FUNDING 2021-22

£389 387 ENABLED 11 GRADUATE STUDENTS TO COME TO EMMANUEL

TAX

Emmanuel College is a registered charity, number 1137456
The Development Office can advise on tax-deductible giving through, for example, Gift Aid, charity cheques, gifts of shares, payroll giving, legacies and charity beneficiaries on death from 'alternatively secured pensions'

FUNDS RECEIVED 1 JUNE 2022 TO 31 MAY 2023

BUILDINGS, FACILITIES & GROUNDS ¹	£163 545
EMMA ENABLES ²	£3 913 949
LIBRARY ³	£14 919
STUDENT ACTIVITIES ⁴	£18 352
STUDENT SUPPORT, HARDSHIP & ACCESS	£114 114
STUDENTSHIPS & SCHOLARSHIPS ⁵	£220 000
TEACHING & RESEARCH	£18 487
TOTAL	£4 463 366

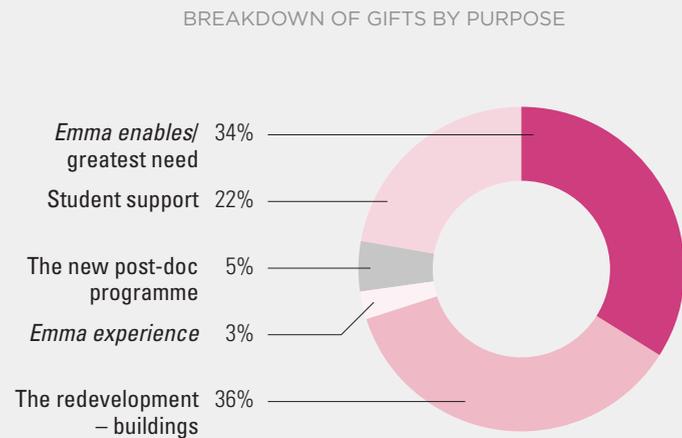
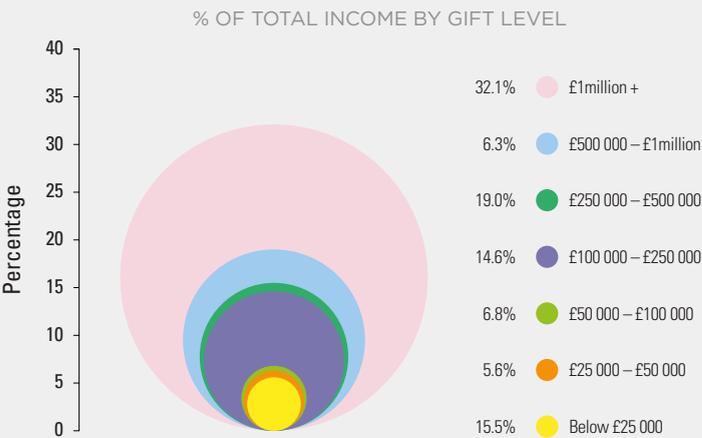
¹ Includes a donation for the development of the gardens at the back of Park Terrace ² Donations to wherever the need is greatest, which has been *Emma enables* ³ Includes donations towards the Rare Books Development Fund ⁴ Includes donations towards sports facilities ⁵ Includes a donation towards MPhil students

SUMMARY FIGURES 2022-23

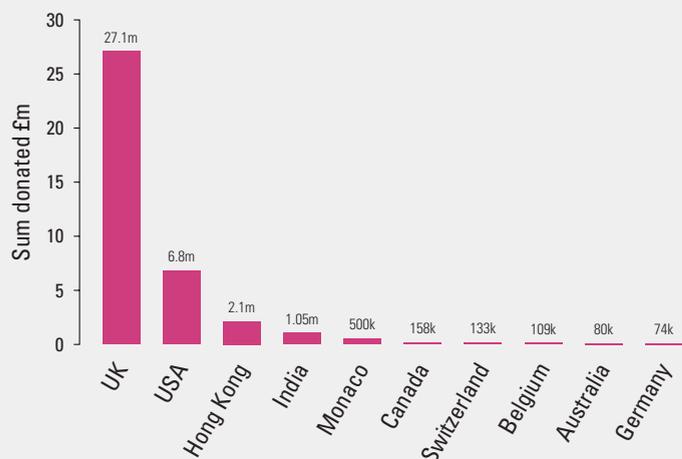
- 20% of Emma members asked made a gift to the college
- 78% of gifts were under £500
- 63% of donors asked the college to allocate their gift to wherever the need is greatest
- 35% of living members have made a donation to Emmanuel
- 23% of living members have made a donation to Emmanuel in the last five years
- 28% of living members have made a donation to Emmanuel in the last ten years

EMMA GIVES

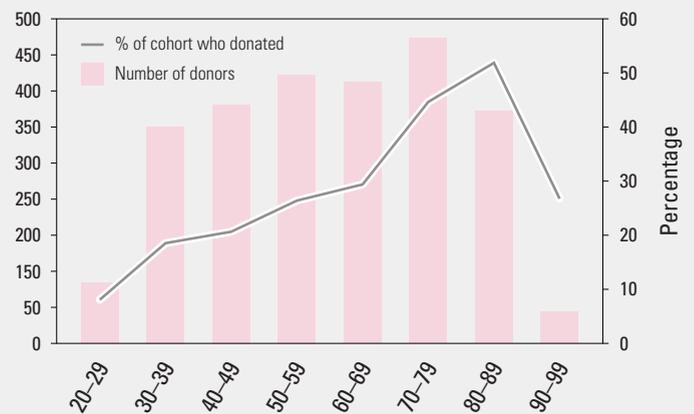
- 338 donors gave £115 866
- 24 first-time donors



GEOGRAPHICAL SPREAD OF DONORS & DONATIONS (TOP TEN COUNTRIES BY SUMS DONATED)



WHERE SUPPORT CAME FROM



MISSING PIECES

TOM CORDER, IT MANAGER

In summer 2022, the Information Services (IS) department moved into new offices in South Court, and in March 2023 students moved into brand-new accommodation and social spaces. We are now in a much better place to meet the challenges of the future.

Our previous offices, at the top of B staircase in Front Court, were fine college rooms but up several flights of stairs. We were keen to move to a more accessible and convenient location and are now in two converted ground-floor student rooms in South Court, nearer the Library and alongside *Fiona's*. we are now more central and are happy to be seeing many more visitors.

We have recently welcomed two new members of IS staff into the longstanding trio of Lan Wang, Mahsa Naraghi and me. Jeffrey Cabusora (Systems Developer) and Chido Dike (Support Engineer) have brought new skills and fresh perspectives and joined just in time to help us adopt the new site's systems. These roles will enable us to improve IT support, networking and collaboration within the college and wider community.

THE NEW BUILDINGS ARE THE FIRST PARTS OF COLLEGE THAT HAVE HAD DATA PROVISION FULLY DESIGNED IN

The new buildings are the first parts of college that have had data provision fully designed in. Normally, we retrofit cabling and equipment into sensitive historical locations which, though making for interesting challenges, can lead to technically compromised results. Network connectivity is now expected to be delivered wirelessly, so as the massive earthworks were starting, the architects' plans were used in predictive wireless surveys to optimise coverage and performance. We knew we would need to support multiple high-definition video and audio streams in near proximity in the new meeting rooms, and satisfy heavy usage in the new accommodation and social areas.



MAHSA NARAGHI



LAN WANG



JEFFREY CABUSORA



CHIDO DIKE

In addition, over 400 new wired sockets needed to be integrated into the existing system. They were installed in every room, and are used for online door access systems, integrated intercom systems, CCTV cameras, multi-sensor building management systems and our first electrical vehicle charging stations.

The builders provided the glass and copper cabling, but it was for us to source the switches. Equipment supplies had been severely

disrupted by the pandemic and delivery times were up to a year from order. We had enough spare equipment to support the early stages of the handover, but were relieved when the main shipment arrived just in time for us to install, configure and test it, finishing just one week before students moved in!

These many individual connections are part of a larger whole. The college site requires optical fibre links between its many switch cabinets

AS THE MASSIVE EARTHWORKS WERE STARTING, THE ARCHITECTS' PLANS WERE USED IN PREDICTIVE WIRELESS SURVEYS TO OPTIMISE COVERAGE AND PERFORMANCE

and the core of these were upgraded before the project began, providing plentiful capacity and speed. However, two issues remained: there was a gap in the core, between the Library and New South Court, and there was just a single link to the university network (which connects colleges, departments and central systems to each other, and the internet) in the Queen's Building. Now, the new switch cabinet below Young's Court is connected to both the Library and New South Court within college, and also out to the university network along a brand-new route. These links mean that if there were a fault on

any section of the fibre ring, or even on a university link, we would be able to maintain service to the college.

The footprint of the newly acquired land may look modest from the air, but the impact on Emmanuel is profound. It has enabled us to enhance connectivity and communication, support and resilience within Emmanuel and out to our members for many years ahead.

(And as I write we have still not had a single complaint about the new wireless service!)

EMMANUEL SOCIETY

Every member of Emmanuel is also a member of the Emmanuel Society, which joins up the community: students, Fellows and the wider membership. The society organises a wide range of events in the UK and overseas. It also helps current students with advice about careers and job applications.

The society's programme is publicised in the *Emmanuel Newsletter*, which is published three times a year, in the *Emma connects* e-news, and on the website www.emma.cam.ac.uk/members/events. Please come to whatever interests you and let us have any suggestions for other events. Offers to help are very welcome.

EMMA ONLINE

We send regular e-news, Emma connects (we need your email address)

Emmanuel College Members (private group):

 www.facebook.com/groups/554901871328458

Emmanuel in America:

 www.facebook.com/groups/emmausa

 Alumni of Emmanuel College

 Follow EmmaCambridge

 Follow EmmanuelCambridge

The Emmanuel Society and Development Offices share staff and rooms on

D staircase, Front Court:

emmanuel-society@emma.cam.ac.uk

0044 1223 330476

VISIT EMMA

- Dine at High Table (matric 2015 and earlier): www.emma.cam.ac.uk/dining
0044 1223 330476
(free for members, payment for a guest)
- Student guest rooms with shared facilities: www.emma.cam.ac.uk/guestrooms
0044 1223 334255
- Private meetings, meals and conferences: conferences@emma.cam.ac.uk
0044 1223 331978



NETWORK UPDATE

These many individual connections are part of a larger whole. The college site requires optical fibre links between its many switch cabinets and the core of these were upgraded before the project began, providing plentiful capacity and speed

-  EXISTING
-  NEW BUILD
-  UPDATED NETWORK
-  PREVIOUS NETWORK
-  UNIVERSITY NETWORK



