



**CAMBRIDGE AUSTRALIA  
SCHOLARSHIPS LTD**

# **ANNUAL REPORT**

**2012 – 2013**

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# OUR PRIORITIES

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Cambridge Australia Scholarships Ltd (CAS) is the main Australian funding body for talented Australians to study at the University of Cambridge.

While the Cambridge Societies around Australia act as a social hub for Cambridge alumni in Australia, CAS works with the University of Cambridge, in particular the Cambridge Trusts, to ensure that the best and brightest Australians have the opportunity to undertake their studies at the University of Cambridge.

We do this by focusing on the following priority areas:

- **Information:** we provide accurate and timely information to interested scholars via our website
- **Partnering with Cambridge:** we liaise regularly with the University of Cambridge, in particular the Cambridge Trusts, to ensure our activities align with the University's objectives
- **Promotion of scholarships:** we promote CAS scholarships widely to maximize the number of applicants
- **Fund raising:** we seek to raise funds to expand the number of scholarships available (CAS still receives each year more applications from suitably qualified applicants than we can support)
- **Build the CAS alumni community:** we seek to develop links between CAS scholars both while in residence at Cambridge and beyond
- **Partnering with other organisations:** we look for ways to advance our objectives by partnering with other organisations, for example in relation to the indigenous scholarship programmes
- **Good governance:** we ensure best practice governance in relation to the administration of CAS and the management of our resources and investments

## Abbreviations used in this Report

CAS	Cambridge Australia Scholarships Limited
CCT	Cambridge Commonwealth and Overseas Trusts
CAT	Cambridge Australia Trust (predecessor organisation to CAS)
ANU	Australian National University

# CHAIR'S REPORT

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Back in April this year, the 345th Vice-Chancellor of Cambridge, Professor Sir Leszek Borysiewicz, came to Melbourne to deliver the Richard Larkins Oration at Monash University.

As a Monash alumnus, for me this was a doubly proud moment and it also provided a terrific opportunity to meet with 'Boris' (as the VC invariably introduces himself) to talk about CAS.

**The Vice Chancellor's oration was titled "*Universities and the poorest billion*", but what he had to say was equally important when thinking about the role of universities in a globalised world.**

One of the points that Sir Leszek made was “simply that in every historical and geographical incarnation of a university, ‘making a difference in the world’ has been a recognisable aim”. Further, “there is in fact *no other* sort of organization that can contribute nearly as effectively as we universities can:

- Because they are independent, honest brokers
- Because they have been around a long time, and rely on society's trust
- Because they find partnership natural
- Because they integrate knowledge and are the last institutions that can do so
- Because they have idealistic students, committed to changing the world and bringing the energy and creativity of youth
- And because they have idealistic academics, committed equally to changing the world and bringing networks of contacts and profound expertise”

These points summarise well why the work of CAS is so important.

All universities play an important role in a civil society, but realistically some play a bigger role than others. As one of the world's top three universities (according to The Times Higher Education World Reputation Rankings) and with more Nobel Prize winners than any other institution, Cambridge is one such place. No greater opportunity can be given to promising young Australians than the chance to study there.

This year CAS has expanded its awards to eight PhD scholarships and four Masters degree half scholarships. Additionally, CAS is contributing to the support of four indigenous scholars - three Charlie Perkins Scholarship recipients and one Roberta Sykes Scholarship recipient (see pages 9 – 12 for details).

Within days of the Vice-Chancellor's visit to Melbourne, the Master of Pembroke College (and incidentally, the former head of the British Secret Intelligence Service, MI6), Sir Richard Dearlove, also joined us to celebrate the launch of the Davis McCaughey Cambridge Australia Scholarship, which has been funded jointly by Pembroke College and Australian-based Pembroke College alumni.

This is another pleasing example of how over the past few years CAS has developed partnerships, using our now well-established scholarship award model to assist other groups – such as the McCaughey donors, the Charlie Perkins Trust and the Roberta Sykes Indigenous Education Foundation - to meet their objectives.

In February, we welcomed to Australia – and farewelled – the outgoing Director of the Cambridge Trusts, Michael O’Sullivan. Michael attended the annual CAS board workshop in Sydney, as well as attending CAS receptions in Brisbane, Sydney and Canberra, concluding with a luncheon in Melbourne (photo below).



**Cambridge Australia Scholarships Luncheon** - Pictured from left: Justine Koster-Administrator CAS, Mike Gregson-Assistant Sec CamSoc, Anona Armstrong-Vice President CamSoc, Antara Mascarenhas-President CamSoc, James Forrest-Director CAS, Michael O’Sullivan-Director CCT, Justice Tony Pagone, Richard Dammary-Chair CAS, Andrew Shelton, Gareth Hoar-British Consul General, Patrick Moore-Director CAS, Rufus Black-Master Ormond College, Jocelyn and Charles Allen

Michael's efforts as Director of the Cambridge Trusts deserve special acknowledgement from us. He provided active support in relation to the incorporation of CAS and nominated our organisation for recognition by the University of Cambridge in 2011 via the Guild of Benefactors.

During the year, the CAS Directors also took the necessary step of employing a part-time Administrator, Justine Koster, who has already played an invaluable role in handling all the day-to-day activities associated with CAS' increasing activities.

In addition, the directors continue to focus on rejuvenating Queensland and NSW CAS activities and seeking support to award new masters scholarships in those states in 2014.

It is a great privilege to lead CAS and I would like to take this opportunity to thank all the Directors, who have given their time voluntarily to CAS.

**Richard Dammery (Trinity, PhD 1987)**

# DIRECTORS

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The Constitution of CAS states that the Company must have a minimum of four and not more than twelve directors. Directors are appointed for a period of 2 years and may be re-elected for up to three consecutive terms. Where possible, the Board should be nationally representative: i.e. has a representative who is resident in each State and Territory.

During 2012-13, the Directors of CAS were:

**Dr Richard Dammery, Chair (VIC)**

Richard completed a PhD at Trinity College between 1987 to 1990. He holds arts and law degrees from Monash University, an MBA from Melbourne University and is currently a corporate partner of Minter Ellison Lawyers, based in Melbourne.

**Dr James Forrest (VIC)**

James completed a PhD in Engineering at Pembroke College from 1995 to 1999, as a Packer Cambridge Australia scholar. He is now a senior research scientist at the Defence Science and Technology Organisation (DSTO) in Melbourne.

**Mrs Taruna Heuzenroeder (SA)**

Taruna completed an LLM at Gonville and Caius College in 2007, supported by the Cambridge Commonwealth Trust. Taruna is at the South Australian Bar where she practices in commercial litigation and public law.

**Dr Dominic Katter (QLD)**

Dominic read for an MPhil at St Edmund's College in 1998-1999. He was a Wakefield Scholar and received a bursary from the Cambridge Commonwealth Trust. Dominic is at the Queensland Bar, where he has a commercial practice.

**Mr Patrick Moore (VIC)**

Patrick is a donor to Cambridge Australia Scholarships, having established the Masters scholarship program in Victoria. He matriculated in 1963 as an undergraduate at St Catharine's College. He read Economics and Law. He is a keen oarsman, having rowed for the university in the 1965 Blue Boat.

**Professor Nicolas Peterson (ACT)**

Nic is Professor of Anthropology at ANU and Secretary of Cambridge Australia Scholarships Ltd. He was at King's from 1960-1963 reading archaeology and anthropology.

**Dr Paul Schreier (NSW)**

Paul completed undergraduate and masters degrees, followed by a PhD in engineering at Queens' College, Cambridge. He has worked for McKinsey & Company in London and South East Asia, served in the British Royal Navy for seven years and more recently worked as Deputy Secretary, Economic & Strategy, in the Department of Prime Minister and Cabinet. He is currently Chief Operating Officer of Macquarie University.



### **Mr Alistair Newmarch (NSW)**

Alistair completed a MA in Geography from St Edmund's College between 2001- 2003. He is currently an Investment Director at Archer Capital, a private equity firm based in Sydney.

With the exception of Alistair Newmarch, who resigned from the board on 31 July 2013, all directors, being eligible for re-election, are seeking to continue as directors.

## **Board Committees**

The board has formed a number of committees in relation to its key activities. These are as follows:

- Finance (Chair: Paul Schreier)
- PhD Scholarship Selection (Chair: Nic Peterson)
- Masters Scholarship Selection (Chair: James Forrest)
- Alumni and Promotions (Chair: Patrick Moore)



Pictured from left: Dr Richard Dammary (Chair CAS) with the University of Cambridge Vice-Chancellor, Sir Leszek Borysiewicz

# 2013 SCHOLARSHIP AWARDS

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## PhD Scholarships

Eight PhD scholarships were awarded for 2013.

At its meeting at on 22 March 2013 at the Australian National University in Canberra, the selection committee considered thirty applications.

The members of the selection panel were Professor Nicolas Peterson (Chair) (ANU), Professor John Love (ANU), Professor Anona Armstrong (Victoria University), Professor Brian Kennett (ANU), Dr Gillian Shepherd (La Trobe University), Professor Peter Tregear (ANU).

**The successful Cambridge Australia scholarship recipients for 2013 are listed below:**

**1. Miss Claire AGIUS (VIC)**

Award: Cambridge Australia Kater Scholarship

Subject: PhD in Plant Sciences

Claire will investigate the role of epigenetic and RNA silencing machinery in a plant's ability to adapt to environmental stresses. Her goal is to become a research scientist.

**2. Mr William BATEMAN (NSW)**

Award: Cambridge Australia Poynton Scholarship

Subject: PhD in Law

William proposes to research "The Status and Function of Domestic Constitutional Law in International Law". Will has deferred his commencement until Lent term 2014.

**3. Mr Nathaniel DAVIS (ACT)**

Award: Cambridge Australia Bragg Scholarship

Subject: PhD in Physics

Nathaniel proposes to carry out solar cell research. His goal is to attain a fellowship or post-doctoral position at a world leading institution in solar cell research.

**4. Mr Paolo DE SCISCIO (SA)**

Award: Cambridge Australia Poynton Scholarship

Subject: PhD in Engineering

Always aspiring to become a cardiac surgeon, Paolo will research new technologies in medicine to solve the limitations of human performance in the operating theatre.

**5. Ms Lily DIXON (ACT)**

Award: Cambridge Australia Oliphant Scholarship

Subject: PhD in Chemistry

Lily has chosen to research the development of main group catalysts for homoatomic and heteroatomic dehydrocoupling reactions. She aspires to continue to participate in research chemistry and one day wants to help create newer and cleaner industrial processes.

**6. Ms Julie JI (WA)**

Award: Cambridge Australia Poynton Scholarship

Subject: PhD in Biological Science

Julie's research proposal title is "Elevating Positive Emotions in Depression via Cognitive Bias Modification (CBM) of Attention and Interpretation" and will pursue a PhD in Biological Science. Julie's goal is to become a leading cognitive scientist specialising in depression.

**7. Ms Georgina STATHAM (WA)**

Award: Cambridge Australia 800<sup>th</sup> Anniversary Scholarship

Subject: PhD in Philosophy

Georgina has chosen to undertake a PhD in Philosophy and research perspectival realism about causation. Georgina's goal is to become an academic in philosophy.

**8. Ms Juliette TOBIAS-WEBB (QLD)**

Award: Cambridge Australia Poynton Scholarship

Subject: PhD in Psychology

Juliette proposes to research the effects of acute alcohol consumption on decision making and conviction. Juliette's future aspirations are to lead the development of effective educational and health management programmes and contribute to public and mental health policies on a global level.

## Masters Scholarships

Three Victorian Masters half-scholarships (one Moore and two Allen scholarships) and one McCaughey Masters half-scholarship were awarded in 2013.

Twenty nine applications by eligible candidates were provided to the panel. Fifteen of these candidates were shortlisted for interview on the basis of their applications and references. Interviews were conducted 20 and 21 June 2013, in person or by teleconference. The panel was very impressed by the quality of the candidates

The members of the selection panel for the CAS Masters Scholarships this year were Dr James Forrest (Chair), Professor Anona Armstrong (Victoria University), Dr Gillian Shepherd (La Trobe University) and Mr Jerry Platt.

**The successful Cambridge Australia Masters half scholarship recipients for 2013 are listed below:**

**1. Mr Seamus BARKER**

Award: Cambridge Australia Allen Scholarship  
Subject: MPhil in American Literature

**2. Mr Joshua CROWTHER**

Award: Patrick Moore Cambridge Australia Scholarship  
Subject: MPhil in Modern European History

**3. Mr Tudor THOMAS**

Award: Cambridge Australia Allen Scholarship  
Subject: Master in Physics

**4. Ms Myfanwy WOOD**

Award: Davis McCaughey Cambridge Australia Scholarship  
Subject: Master of Law (LLM)

### Honorary Award Scholars

Where CAS makes (or intends to make) an offer to a scholar and they accept an alternative award, CAS may offer honorary status. Three candidates received CAS honorary awards in 2013.

<b>Name</b>	<b>Subject</b>
Ms Ellese COTTERILL	PhD in Mathematical Genomics and Medicine
Mr Olaf CIOLEK	Master of Law (LLM)
Ms Jolan PRICE	MPhil in Engineering for Sustainable Development

## Other Scholarships

### Charlie Perkins Scholarship

Three indigenous masters scholars received the Charlie Perkins Scholarship, awarded in conjunction with the Charlie Perkins Trust, the Cambridge Commonwealth Trust and Cambridge Australia Scholarships.

<b>Name</b>	<b>Subject</b>
Mr Vincent BACKHAUS	MPhil (Psychology and Education)
Ms Sarah REES	MPhil (Architecture and Urban Design)
Ms Leila SMITH	MPhil (Public Policy)

### Roberta Sykes Scholarship

One indigenous masters scholar received the Roberta Sykes Scholarship awarded in conjunction with the Roberta Sykes Indigenous Education Foundation, the Cambridge Commonwealth Trust and Cambridge Australia Scholarships.

<b>Name</b>	<b>Subject</b>
Ms Bridget HUGHES	MPhil (Educational Leadership and School Improvement)

# SCHOLARS IN RESIDENCE REPORTS

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**Name:** Gareth Ainsworth  
**Degree & Subject:** PhD (Pure Mathematics)  
**Academic Year awarded:** 2011  
**College:** Trinity  
**Award:** Cambridge Australia Fisher Scholarship

## 2013 Scholar Report

I am currently completing the second year of my PhD at Trinity College, Cambridge. I work under Professor Gabriel Paternain in the Department of Pure Mathematics and Mathematical Statistics. My research lies within the field of Differential Geometry. Specifically, I have spent the past year investigating various inverse questions associated with x-ray transforms on Riemannian surfaces attenuated by non-unitary connections.

I wrote a paper comprising some of the research I performed over the course of the first year of my PhD, and it has recently been published by the Journal of Inverse Problems and Imaging. I have since then written another preprint “The Magnetic Ray Transform on Anosov Surfaces” in which I examine similar questions on surfaces without boundary. At the moment my research is continuing as I consider questions to do with characterising the range of certain x-ray transforms.

I have been involved in various commitments in my department throughout the year. Specifically, I have been conducting supervisions for 2nd year undergraduate students in Linear Algebra. I have also run a seminar series for the Masters students. Outside of my studies I am soon travelling to Israel and Palestine as part of a cultural trip organised by Trinity. I was also elected Treasurer of the Trinity Politics Society.



**Name:** Jason Grant Allen  
**Degree & Subject:** PhD (Law)  
**Academic Year awarded:** 2012  
**College:** Darwin  
**Award:** Cambridge Australia Poynton Scholarship

### 2013 Scholar Report:

In my research, I seek to revitalise a central concept of seventeenth and eighteenth century constitutionalism that seems to have been left by the wayside. Riding the strong, current trend towards theories of constitutionalism that qualify the traditional doctrine of parliamentary sovereignty, I seek to explain conceptual limits on legislative power as flowing from the representative nature of parliament. The representative nature of parliament is often cited as the very reason to give it unlimited legislative power. I take the opposite approach. As a representative body that derives its powers from the ‘sovereignty’ of the people that elects it, a representative legislature’s power is bound by the nature of that very representative role. Democracy as government for the people by a subset of the people necessarily dictates a certain morality of role or office, which I believe places limits on legislative power. The idea of government as a ‘fiduciary trust’ (that can be revoked for breach) was central to achieving limited government in England, which was then exported to the British colonies and defines their constitutions to an even greater extent. In particular, these limits (I argue) prevent parliament from destroying the dynamic tension it shares with other organs of government under the functional separation of powers that, historically, has distinguished British constitutionalism. Probably during the great democratic reforms of the nineteenth century, which gave us ‘textbook’ Westminster government, the perception justifiably grew that agency or trust-based, fiduciary limits were no longer necessary: directly chosen by the people, parliament could be trusted to represent the people’s interests. In light of contemporary developments—particularly the growing power of the executive, its control over parliament, and the inroads made into the rule of law post-September 11—I believe it is time to resurrect the fiduciary theory of public office. I am supervised by TRS Allan.

At Darwin College, I have been nominated as the student member of the College Council and look forward to experiencing the workings of an Oxbridge college from an internal perspective. For a constitutional lawyer, Oxbridge colleges are a unique and highly interesting species of corporate entity created under legislation passed by the Queen in Council. Colleges are run by their Governing Body of master and fellows; our College Council is responsible for the oversight of the many committees (such as grounds, food, etc.), and reports to the Governing Body.

Unable to take part in the college’s active rowing scene, I have taken to the river in one of my college’s kayaks. Morning trips up the river to Grantchester or further to Byron’s Pool is as good as it sounds, and makes for excellent conceptual thinking about the constitution, law, justice, and the vibe. For the time being I am enjoying college life as a bachelor; the next twelve months hold wedding plans and plans for my fiancée to join me in Cambridge. We plan to live out of the college at that time, and so I am making the most of casual Tuesday night scrabble games and debates about post-modernism in the bar.



**Name:** Fiona Cochaud  
**Degree & Subject:** MPhil (International Relations)  
**Academic Year awarded:** 2012/13  
**College:** Jesus  
**Award:** Cambridge Australia Allen Scholarship

### **2013 Scholar Report:**

Since coming to Cambridge in September 2012, I have benefited enormously from the range of academic and non-academic experiences available here. The short but intensive terms have been filled not only with lectures, seminars and vast amounts of reading for the coursework aspect of my degree, but also with a number of compulsory courses on statistics and research methodologies in the social sciences. Although challenging at times, these courses proved useful in clarifying quantitative and qualitative research methods that were previously opaque to me. I have also taken as many opportunities as possible to attend papers and talks given by visiting scholars and researchers. Interacting with my fellow International Relations students from around the world has also been highly informative.

The remainder of my course consists of a 25,000 word dissertation (in my case, on the Khmer Rouge Tribunal). In this I have benefited from the steady encouragement and guidance of my supervisor, Dr Tomas Larsson (St John's). An early opportunity to give a presentation on the history of the Tribunal as part of my college's annual graduate conference was particularly helpful.

On the non-academic side, I successfully auditioned for the Erasmus Chamber Choir and have performed two concerts with them so far. Being able to listen regularly to the best college choirs in the English choral tradition has been one of the biggest pleasures of living in Cambridge. Jesus College has a wonderfully collegiate community, with a particularly active Middle Combination Room (MCR) for graduate students. Visiting Santiago de Compostela with college friends to walk the Camino for three days, and experiencing coxing on the Cam for the first time have been enduring highlights of my time so far.





**Name:** Olivia Draudins  
**Degree & Subject:** Master of Corporate Law  
**Academic Year awarded:** 2012/13  
**College:** Jesus  
**Award:** Cambridge Australia Allen Scholarship

### 2013 Scholar Report:

The time has flown since I arrived in Cambridge in late September last year. One has to hit the ground running in Cambridge, as there is always something to do, someone to see or somewhere to be. I was warned that if I blinked, I would miss my time in Cambridge, so I have been doing my best to make the most of the experience.

I have been privileged to study the Masters of Corporate Law, a degree that has only been introduced at Cambridge this academic year. Being the inaugural MCL cohort has been interesting, challenging and very rewarding. The 2012/13 MCL cohort is a diverse group of 25 different students representing countries from all over the world. We study one corporate-orientated LLM subject, but otherwise undertake subjects specifically tailored for the MCL. These include a year-long Deals course and four term-long modules, two that took place Michaelmas Term and two in Lent term. As exams took place for the module subjects at the end their respective terms, intense study was required in these two terms, ensuring that the weeks simply flew by.

I still found time to experience what Cambridge has to offer outside study. As a member of Jesus College, I have come to love belonging to its vibrant and social graduate community. Going to the weekly Wednesday Graduate Hall dinners to catch up with other graduates and getting involved in the Jesus Boat Club have been two aspects that I have particularly enjoyed.

As a keen runner, I completed the Cambridge Boundary Half Marathon after training with the Hare & Hounds running group when I first arrived. As I am fortunate enough to have my graduate accommodation opposite Jesus Green, which borders the River Cam, running along the river in sunshine, rain, wind, ice and even snow is something that I will always remember fondly. It felt surreal to be living and studying in such beautiful surroundings sometimes. My morning walk through King's College on my way to the Law School has been one of my favourite times of day.

I was also elected as a Committee member of the Cambridge University Australia and New Zealand Society, through which I helped organise many events, including the Varsity AFL match between Cambridge and Oxford. I have been privileged to meet many other friends through this group.

As a member of the Cambridge Union Society, the amazing speakers, debates and events that the Society feature several times weekly never cease to grab my attention. Outside the Union Society, there are always interesting speakers and talks occurring and through a Cambridge Commonwealth Trust and Overseas Trust function, I was lucky enough to meet, shake the hand of and have a conversation with His Royal Highness Prince Charles.

Above all, the people who I have met have made the Cambridge experience all the more wonderful for me. I have made some friendships that I know will last forever with people who are so intelligent, kind and socially aware. I am very privileged to have been introduced to people whom I never would have had the chance to otherwise.



**Name:** Matthew Dunstan  
**Degree & Subject:** PhD (Chemistry)  
**Academic Year awarded:** 2011/12  
**College:** Trinity  
**Award:** Cambridge Australia Poynton Scholarship

### 2013 Scholar Report:

I arrived in Cambridge in October 2011 to commence my PhD studies in Materials Chemistry under the supervision of Prof Clare Grey. My research has centred around the synthesis and understanding of new materials for carbon capture and separation applications. In particular, I am looking at inorganic materials that can reversibly absorb CO<sub>2</sub> at high temperatures (400-700°C) for use in CO<sub>2</sub> purification from waste gas streams.

During the past six months I have been increasingly involved with working with the Materials Project ([materialsproject.org](http://materialsproject.org)), which attempts to use high-throughput computing and theoretical calculations to build a database of inorganic materials and their properties. I've been using it to screen thousands of materials as potential absorbents, which hopefully will yield novel compounds for this application. I have also been working on developing new in-situ methods with x-ray diffraction, solid state NMR and tomography to observe these absorbents operate in real time with the aim to better understand the underlying mechanism of the carbonation reaction.

This year I was fortunate enough to live in the Great Court of Trinity College, which has certainly been an incredible experience looking out over the oldest part of the college every day. I was the Catering Representative for the graduate BA Society of the college that meant I had the lucky experience to set the menus for the weekly graduate formal dinners. It has been a really good way to get to know other graduate members of the college, and I hope to be involved with the committee again next year. I was also captain of one of the badminton teams for Trinity this year. I have continued to enjoy living in such a beautiful place as Cambridge.



**Name:** John Fitzsimons  
**Degree & Subject:** MPhil (Economics)  
**Academic Year awarded:** 2012/13  
**College:** Darwin  
**Award:** Patrick Moore Cambridge Australia Scholarship

### **2013 Scholar Report:**

As I write this I am currently in the middle of exam revision, with three out of eight exams completed and then a dissertation to write to complete my MPhil. It's hard to believe that I'm almost at the end of the degree already; the last eight months really seem to have flown by, although I feel that I have managed to pack a lot in.

The course itself has been very intensive and challenging. I feel that my knowledge of economic theory and econometrics has been strengthened, and this will be useful in pursuing a career as a professional economist. One of the great things about studying at Cambridge has been the opportunity to interact with a number of motivated and intelligent students and staff, and to attend some very interesting talks by world-class academics. The only criticisms I would make are related to the organisation of the course and the amount of teaching resources provided, both of which I have already raised with the faculty.

Like many students in Cambridge it didn't take me long to get involved in rowing, getting out on the Cam with the Darwin College Boat Club. The early mornings and erg sessions paid off and I was fortunate enough to stroke for the DCBC men's second eight in the Lent Bumps, where we finished with a respectable two bumps and two row-overs. I also managed to continue my running training, and was able to achieve the significant milestone of running my first marathon in Paris in early April.

I am extremely grateful to Patrick Moore and Cambridge Australia Scholarships for being given this opportunity. Apart from the obvious professional advantages that this course will bring, I have found it intellectually stimulating and personally very rewarding.



**Name:** Alex Fleming  
**Degree & Subject:** MPhil (Management)  
**Academic Year awarded:** 2012/2013  
**College:** Pembroke  
**Award:** Patrick Moore Cambridge Australia Scholarship

### **2013 Scholar Report:**

My course is now coming to an end. I've completed almost all of the required modules and have only two remaining exams and a consulting project presentation to complete. The core coursework I've completed has provided me with a strong grounding in valuable management foundations such as finance, accounting, business economics, strategy, globalisation and operations management. Elective classes have allowed me to identify areas of interest to focus on and given me the ability to become very familiar with specific areas of business management such as the changing IP landscape in China and how to create a sustainable supply chain in a world where supply chains are becoming increasingly more complex.

The Management MPhil has provided me with a platform that makes it possible to master managerial basics and also to branch out and find incredibly stimulating material such as case studies and journal articles on novel business management theories. I'm currently half way through the consulting project component of the course, which has me working with Jaguar Land Rover on a real business problem that requires attention and solutions.

In addition to my academics, I've had an amazing experience with the Cambridge University Boat Club. I was selected as the three seat in The Blue Boat to race at the 159<sup>th</sup> Oxford Cambridge Boat Race. Unfortunately, we were not able to take home the victory. However, win or lose, the journey was an amazing experience and I feel truly honoured to have had the chance to take part in this highly prestigious and historic event. As an oarsman for Cambridge I've had the chance to race in Spain, Croatia and Austria.

In my spare time I have been partnering up with students from the Masters in Bioscience Enterprise course and working on several business plans based around medical technologies for diagnostics and non-invasive therapies. Overall, my experience at Cambridge has been nothing short of amazing. I'm looking forward to making the most of my remaining time here in this marvellous place and immersing myself in as much of the Cambridge lifestyle as I can.



**Name:** Alexandra Graham  
**Degree & Subject:** PhD (Physics)  
**Academic Year awarded:** 2010/11  
**College:** Clare  
**Award:** Cambridge Australia Poynton Scholarship

### 2013 Scholar Report:

The second year of my PhD has been filled with success. The research project that I started on at Cambridge yielded unsatisfactory results. After several attempts, looking at both the theory and experimental evidence it became apparent that the research goal was not going to be fulfilled. I then had to make a decision to change my research project. Whilst still looking for areas of investigation in my research area of quantum optics and nanoscience, I devised a list of possible projects and then selected the one that was a best fit for the equipment available and my skills already acquired. My research is now in the localisation properties of excitons (paired charges) in semiconductor nanowires.

I have been able to run several types of experiments on the semiconductor nanowires, yielding both predicted and new results. I have presented the data at the UK Semiconductors 2012 conference, and also published my results early this year in the Journal of Physical Review B, the largest journal for condensed matter physics.

In my spare time I have continued playing in my band, The Valence Band, and this year we will be playing at 4 May Balls. I have also designed the website [www.gadaboutpress.com](http://www.gadaboutpress.com), a community journal that my friends and I set up to promote response to work, instead of the one way train of literature with not much desire to read others work. I have also been playing Hockey with Clare College, this is a fun and relaxing activity that is not taken too seriously so that everyone can join in. With the end of my PhD in sight I have also started to do outreach science lectures. I have gained a lot of experience in preparing these 'performance style lectures' and hope that I can continue to teach and inspire young people in my career.

**Note:** Alexandra Graham has since withdrawn from PhD, but will attain a MPhil.



**Name:** Anne Hanley  
**Degree & Subject:** PhD (History)  
**Academic Year awarded:** 2011/12  
**College:** Corpus Christi  
**Award:** Cambridge Australia Allen Scholarship

### 2013 Scholar Report:

Having passed my first-year registration assessment in May of last year, I am now officially registered as a second-year PhD student under the supervision of Simon Szreter and John Forrester and have received positive and instructive feedback from both supervisors. Over the last academic year I have continued to refine my area of research, acquired a substantial body of archival material, familiarised myself with the existing historiography and have made good progress on three of my five anticipated chapters. My research focuses on the development and dissemination of venereological knowledge claims among different groups of English medical professionals during the late-nineteenth and early-twentieth centuries. I compare the limitations of education and practice among doctors, nurses and midwives in the prevention, diagnosis and treatment of various venereal conditions. I have just completed a final draft of a chapter on the education and practice of midwives in cases of gonorrhoeal ophthalmia neonatorum and have submitted an article based on this chapter to the *Social History of Medicine*. The article is under review and I am hoping to receive constructive feedback on this research.

Having undertaken training related to my degree programme as well as other aspects of university life, including training in small-group supervision, I am hoping to supervise undergraduates in the History and Philosophy of Science Department in the next academic year.

Although I have completed my term as my college's MCR accommodations officer, I remain involved in the MCR community through voluntary work behind the student-run MCR bar at Leckhampton. I have also volunteered to head the production team for Corpus Christi's May Week performance of Marlowe's *Edward II*.



**Name:** James Kane  
**Degree & Subject:** PhD (History)  
**Academic Year awarded:** 2012/13  
**College:** Trinity  
**Award:** Cambridge Australia Poynton Scholarship

### **2013 Scholar Report:**

Studying at Cambridge has been one of the best experiences of my life. As busy and beautiful as I had expected, and yet much more down-to-earth than I had thought it would be, Cambridge has offered so many great opportunities and has challenged me to expand both my academic and personal horizons. Under the supervision of Professor David Abulafia, author of *The Great Sea*, a recent bestseller on the Mediterranean, I have been refining plans for my thesis on the terminology of crusading from the eleventh to the thirteenth centuries, adopting a much broader geographical and chronological approach to medieval history than I might previously have taken. This has allowed me to enrich my understanding of the people, places and cultures from Britain to the Middle East who played such a key role in the period I am studying.

One of the things I've enjoyed most about living in Cambridge is the opportunity to visit nearby historical sites like Ely Cathedral and the abbey ruins at Bury St Edmunds. Seeing these sorts of places in person has been incredibly exciting after spending years studying them from afar. I have also enjoyed the great sense of community among the postgraduates at Trinity College, where I feel very fortunate to be living (not just because of its stunning vistas!) and have made some good friends already. Outside of the usual research routine I have also been playing football for Trinity 2nds, swimming at Parkside Pools and getting involved with the running of the fortnightly Central Medieval Workshop for History graduates. I am very thankful for the opportunities that the Cambridge Australia Scholarship has given me so far, and I can't wait for those that the next couple of years will bring.



**Name:** Yu Heng Lau  
**Degree & Subject:** PhD (Chemistry)  
**Academic Year awarded:** 2010/11  
**College:** Trinity  
**Award:** Cambridge Australia Bragg Scholarship

### **2013 Scholar Report:**

My PhD research is focused on developing a general method for mimicking local three dimensional shapes of proteins. I have developed a method of taking peptides (short segments of proteins which often lack a well-defined shape) and chemically constraining them into common shapes found in proteins. By copying critical binding regions of a given protein, these shape-constrained peptides can block the interaction of the protein with its native binding partners in a competitive manner. Our lab is now developing potential cancer therapeutics by using these constrained peptides to target protein interactions that are specific to cancer cells. Along with the growing success of this research project, I will be presenting my results in a conference in Poland at the end of this month.

The wealth of scientific resources in Cambridge is astounding – it has allowed me to explore my research interests with great academic freedom and at an incredible pace. Without the funding support and scientific expertise available in Cambridge, I would not have been able to achieve the same results that I have in my PhD up until now.

Outside of the lab, I have been involved in a number of college and university societies. Over the past couple of years, I have developed a keen interest in badminton, and am currently captaining one of the Trinity college teams. I have also been singing with the Cambridge University Music Society chorus. There is never a shortage of social events happening in Cambridge, and I will certainly miss the atmosphere when I complete my PhD and cease being a student!

Finally I would like to thank the Cambridge Australia Trust for their support of my graduate studies, and hope they continue to support many other Australian students in the future.





**Name:** William J Menz  
**Degree & Subject:** PhD (Chemical Engineering)  
**Academic Year awarded:** 2010/11  
**College:** Sidney Sussex  
**Award:** Cambridge Australia Poynton Scholarship

### 2013 Scholar Report:

I'm now in the third year of my PhD in the Computational Modelling Group of the Department of Chemical Engineering and Biotechnology. In the past academic year, I have conducted research into the fundamental physical and chemical processes behind nanoparticle synthesis. As a result of this work, I've published two further papers since the previous report. The first (Menz, W. & Kraft, M., *Combustion & Flame* 2013, **160**:947-958) concerns itself with developing a model for silicon nanoparticle manufacture, attempting to unite the results of over 30 years of research into the subject. The second (Menz, W. & Kraft, M., *Aerosol Science & Technology* 2013, **47**:734-745) ascertains the level of mathematical detail required in these models in order to accurately capture the structure of nanoparticles.

I've also had the opportunity to present some of my research: to my Department in its Graduate Conference, to my own college, and to collaborators at the Weierstrass institute of Applied Analysis and Stochastics (WIAS) in Berlin. Armed with these presentations and papers, I hope that the thesis write-up will proceed smoothly..!

Outside of study, I've been busy in College life. Until the end of Lent term, I was my College's MCR President. In this role, I coordinated social activities for graduates and represented the MCR in College committees. I also organised a [conference](#) in College, at which students could present their research to a general 'lay-audience'. I rowed in the College's first boat in May (2012) and Lent (2013) Bumps, getting a real taste of possibly the most exciting form of racing ever invented. I've also attempted to make the most of (what could be) my last year in Cambridge, by visiting many of the surrounding areas and stately homes.



**Name:** Julia Elizabeth Powles  
**Degree & Subject:** PhD (Law)  
**Academic Year awarded:** 2010/11  
**College:** St John's  
**Award:** Cambridge Australia Poynton Scholarship

### **2013 Scholar Report:**

My second year of the PhD has held various challenges, but I am enthusiastic about the next stage of my thesis as I enter third year. A highlight was spending five months at the Max Planck Institute for Intellectual Property and Competition Law in Munich, where I continued my research on the role of the inventive concept in patent law, fortified by sunshine, mountains, and the benefits of an excellent concentration of physical and human resources in my field.

My wider involvement in faculty and college life has included continuing to co-convene the CIPIL Intellectual Property Seminar Series, with some 10 speakers over the last year, as well as teaching patent law seminars for master's students. I continued to attend a range of lectures from the excellent academics and practitioners that pass through Cambridge, focusing in particular on cutting-edge life sciences research, entrepreneurship and innovation. Again I attended the CIPIL Spring Conference and the London Patent Forum, as well as a fascinating conference at the LSE on Synthetic Biology and Patents and several discussions relating to the new Unitary Patent Regime which is proposed for Europe from 2014.

At St John's College I acted as graduate liaison officer for the Winfield Law Society, including inviting an excellent in-house lawyer in pharmacovigilance as our annual guest speaker. I was also heavily involved in the graduate Samuel Butler Room Society where, in the capacity of Vice-President, I initiated a number of new events, including talks from illustrious alumni, an annual fun run, historic dinners, and art, music, poetry, and writing events. I have had to discontinue competitive rowing and other sports due to the demands of research, but the rich intellectual, cultural and physical environment of Cambridge continues to provide a stimulating backdrop for pushing the boundaries of intellectual property law.



**Name:** Jonathan Scarlett  
**Degree & Subject:** PhD (Engineering)  
**Academic Year awarded:** 2011/12  
**College:** Trinity Hall  
**Award:** Cambridge Australia Poynton Scholarship

### **2013 Scholar Report:**

My experience at Cambridge continues to be highly enjoyable and valuable. The town is truly a great place to live, and feels like a second home to me. I am very happy with my academic progress thus far, and I continue to enjoy the variety of social events on offer.

I am pleased to have three conference papers published and a further two under review, as well as one journal paper submitted and another in preparation. I have had many interesting discussions on my research, not only with other members of the group, but also with other members of the information theory community. I had the opportunity to present my work at the 2012 Allerton Conference in Illinois, USA, where I met many others with similar research interests. I am thoroughly looking forward to attending the 2013 International Symposium on Information Theory in Istanbul, Turkey.

One of the many great aspects of doing a PhD at Cambridge has been the opportunity to travel, both for academic purposes and for vacations. Since my arrival I have travelled all over Europe, and done a trip to America as well as one back to my hometown Melbourne, Australia. On several occasions I have visited Barcelona, Spain, where much of my supervisor's research group resides. The city is, of course, very different to Cambridge, and my time there has been very enjoyable.

Being the member of a Cambridge college has given me the opportunity to attend a variety of unique and wonderful social events, where I continue to meet new people. The free Spanish classes offered by the Department of Engineering continue to be very useful and interesting. Finally, I have recently become involved with the Trinity Hall Music Society. I have given a short performance playing the guitar, and I have arranged to give a longer one very soon.



**Name:** Michelle Wallis  
**Degree & Subject:** PhD (History & Philosophy of Science)  
**Academic Year awarded:** 2011/12  
**College:** Pembroke  
**Award:** Cambridge Australia Poynton Scholarship

### 2013 Scholar Report:

I have just completed my second year as a PhD student in the department of the history and philosophy of science, working on a thesis entitled 'Handbill advertising and the public practice of medicine in early modern England', supervised by Dr Lauren Kassell. I am interested in the history of science and medicine, broadly construed, with an emphasis on the early modern period, the history of print, and material culture. My thesis brings these interests together, by exploring three collections of medical advertisements held at the British Library, two of which were owned by Sir Hans Sloane. These usually take the form of single sheets of paper, or small sheets of paper, that were handed out in streets and pasted on walls to advertise medical practitioners and their products in early modern London.

Since 2012 I have co-convened the CRASSH seminar series: 'Things: Early Modern Material Culture', which you can find out more about here <http://www.crassh.cam.ac.uk/page/1036/things-material-cultures-htm>, and I recently successfully led an application to renew our funding for another academic year.

I blog on academic matters at [mountebanksmistress.blogspot.co.uk](http://mountebanksmistress.blogspot.co.uk) and tweet at MichelleLWallis.

This year I volunteered as an assistant at the Cambridge History for Schools programme, and next May I will be conducting my own session for the programme on early modern medicine, for 7-11 year olds. I have supervised third year students in medieval medicine and early modern medicine, and for a primary source module on Defoe's Journal of a Plague Year. I also supervise second year students in the history of science, from ancient Babylon to the present day.

If you would like to know more about my research, this year I was interviewed talking about it for the CRASSH Cambridge PhDcasts.

You will find the video and some further reading, including images of some medical handbills, here <http://www.crassh.cam.ac.uk/page/1193/michelle-wallis.htm>

When I am not working on my PhD, you will find me at the Pembroke Graduate Parlour, where I used to be an events officer and am now a Pubord steward – or perhaps dancing with the Cambridge Lindy Hoppers, who I perform with whenever I have the chance!



**Name:** Madeleine Yates  
**Degree & Subject:** PhD (Engineering)  
**Academic Year awarded:** 2011/12  
**College:** Robinson  
**Award:** Cambridge Australia Poynton Scholarship

### **2013 Scholar Report:**

I am now into my second year as a PhD student at Cambridge. My research has been focused on single-use medical devices (SUDs) and their end-of-life options with a focus on the environmental impacts of the decisions made in hospitals. I have been collecting data from companies dealing with medical waste and will also be conducting research within hospitals subject to ethics approval. I will be using the data collected from companies to perform life cycle assessments on the waste management options for SUDs and taking this information back to hospitals to discuss how their waste management practices could be improved to reduce the associated environmental impact. Major problems that I have encountered relate to difficulties in gaining access to these companies. I attended a conference in September 2012 on sustainable healthcare and hope to present some of my findings at a waste management conference in October this year.

I have also been working on additional projects including a review paper on biopolymers and an analysis of consumer battery waste by testing the remaining capacity in batteries sent for recycling. I have continued to row in the first boat for my college and have joined the college MCR as the green officer. I have also been acting as a coordinator to establish and maintain a community vegetable garden at Murray Edwards College.



**Name:** Matthew Young  
**Degree & Subject:** PhD (Astronomy)  
**Academic Year awarded:** 2011/12  
**College:** Jesus  
**Award:** Cambridge Australia Poynton Scholarship

### 2013 Scholar Report:

I am currently half way through the second year of my PhD at the Institute of Astronomy. I work with Professor Cathie Clarke on understanding the physics that determines how astrophysical discs “fragment” into gravitationally bound objects. This process is relevant at many length scales, but an important example of this is the formation of large gas giant planets from discs of gas and dust around young stars. My particular focus is on understanding how the turbulence that exists within these discs can influence how, when and if a disc can form planets. While previous work has tried to provide a set of required disc properties that determines if a disc can form planets, recent studies have shown that the turbulent nature of these discs means that a probabilistic description of the process is more appropriate. It is understanding and quantifying the probability of planet formation which is the primary concern of my research project. To investigate this question, I make use of large scale computer simulations which try and reproduce the conditions present in astrophysical discs in a similar way that climate modellers try and reproduce the Earth's atmosphere in a computer.

Over the past year I have developed the tools and analysis methods we will need to complete this research project. Together with my supervisor and one of our collaborators, I have recently been awarded a large allocation of time on the UK super-computing network to carry out our research plan, which will allow us to generate the data needed to quantify the probability of planet formation within turbulent, astrophysical discs. I also published a paper describing a new technique for calculating the rate of radiative cooling in simulations of discs, which is an important process in understanding a range of interesting phenomenon. Over the Lent term I supervised a course on “astrophysical fluids” for the second time, which I continue to find very rewarding.

On the non-academic side of things, I have continued to be actively involved in the many social and cultural opportunities that Cambridge has to offer. I have been particularly involved with the college this year as I am currently serving as the “international officer” for the graduate community. As part of this role, I organised a number of internationally themed dinners, including Thanksgiving, Chinese New Year and “Antipodean day” (a joint, Australia Day/Waitangi Day celebration). Being on the graduate committee for the college has been a fantastic way to contribute to the already vibrant graduate community at Jesus College and in Cambridge and I feel very privileged to have had the opportunity to do so.

# FINAL SCHOLAR REPORTS

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**Name:** Lauren Lillian Brown  
**Degree & Subject:** MPhil (Education)  
**Academic Year awarded:** 2012/13  
**College:** Trinity  
**Award:** Charlie Perkins Scholarship

## 2013 Final Scholar Report:

The last term has been wonderful! I have felt settled, focused and less self-conscious academically. This has translated into the process of completing my thesis, and will hopefully be reflected in the final product I submit. I think part of this relaxed attitude is informed by the distinction grade I received for my last assessment. I feel that I have been really successful in keeping up to date, and even ahead with thesis requirements, which has afforded me the extra time to hand in a really polished and considered piece. I have presented my work on numerous occasions, including at a student conference called Kaleidoscope, and on every occasion have received great feedback. From this conference I was also invited to contribute to a panel discussion: Being Australia(n) convened by the Australian Republican Movement, in London on Australian identity.

I have faced many challenges this semester. Particularly as the theoretical standpoint I felt was most appropriate in the context of my research is considered by some of the academics (and potential markers) within the Faculty of Education, as weak. While this was a source of inspiration and motivation, at times it was also a significant cause of anxiety!

I have mentioned in the previous two reports I have submitted that one of the difficulties I have faced throughout this program is not having direct access to other Aboriginal or Torres Strait Islander scholars and academics to share ideas and receive support. Thinking constantly and deeply about the past and its impacts in the present can get heavy, and when I was back in Australia I did not realise the importance of having people around me who, in a way, shared the burden a little bit. This semester I started email contact with Professor Martin Nakata who is the theorist behind the methodology I employed within my thesis. I feel blessed that he responded and supported me in developing and justifying what I had to say.

My goals continue to include: Receiving a mark of above 70; Maintaining integrity as I am entering the final stages of my research project; Get home safe and sound and apply what I have learnt here back home; and, Organise to present my research to pre-service teachers at the University of Melbourne and hopefully to other Education Faculties also.

This last nine months has been mind-blowing! I have learnt so much about education, the origins of the Western education system, and importantly – about myself in relation to it, and just in general. I feel like I have an arsenal of information that I know is going to be so useful for my future endeavours. I feel my academic vocabulary and social capital has expanded to a level I would never have thought was possible. I have made life-long friends and important contacts and I am so grateful!!!



**Name:** Rebekah Clements  
**Degree & Subject:** PhD (East Asian Studies)  
**Academic Year awarded:** 2008/9  
**College:** Trinity  
**Award:** Cambridge Australia Fulton Scholarship  
**Thesis Title:** A Cultural History of Translation in Early-Modern Japan

### 2013 Final Scholar Report:

I submitted my dissertation in September 2011, and began a Research Associateship at the Faculty of Asian and Middle Eastern Studies (FAMES), University of Cambridge on 1 October 2011. The project on which I am working, “Vernacularization in East Asia,” is funded by the Leverhulme Trust for three years 2011-2014. In November of 2011 I was also successful in obtaining a Research Fellowship at Queens’ College, Cambridge, which I took up in September 2012 and hold concurrently with the Leverhulme/FAMES position. My PhD was conferred in 2012. I am very grateful to the Trusts for their support.

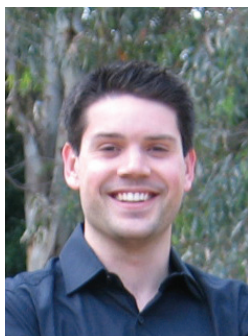
I am continuing to work towards an academic career and have two articles forthcoming this year:

- “Rewriting Murasaki: vernacular translation and the reception of Genji monogatari during the Tokugawa period,” *Monumenta Nipponica*, Spring/Summer 2013, accepted for publication.
- “Cross-dressing as Lady Murasaki: Metaphors for translation in the Tokugawa period.” *Testo a Fronte*, (special edition celebrating the completion of the Italian translation of Genji monogatari), forthcoming, 2013.

I am also working on the draft of a monograph, based on my dissertation, which is under consideration at Cambridge University Press.

My other activities include teaching classes on Japanese literature and history at FAMES - a great opportunity to gain valuable experience. I was also recently a guest expert on the popular BBC4 Radio program “In Our Time” (Thursday 4th April, 2013), discussing Japan’s early modern period and the question of “national isolation.” (<http://www.bbc.co.uk/programmes/b01rlptf>)





**Name:** Sean A. Hudson  
**Degree & Subject:** PhD (Chemistry)  
**Academic Year awarded:** 2009/10  
**College:** Christ's  
**Award:** Cambridge Australia Oliphant Scholarship  
**Thesis Title:** Fragment-Based Studies of *Mycobacterium tuberculosis* Cytochrome P450 Enzymes

### 2013 Final Scholar Report:

The award of my PhD marks a significant lifetime accomplishment for which I am very proud and most grateful to have been given the opportunity to achieve. It has been extremely rewarding to forge new scientific grounds with the best international scientists and research facilities in Cambridge, and my research has certainly been a resounding success. We strategically employed fragment-based ligand discovery (FBLD) technology to investigate essential cytochrome P450 enzymes from *Mycobacterium tuberculosis* (the bacteria responsible for tuberculosis (TB) disease). This led to the discovery of novel compounds that inhibited these enzymes with exciting potential to become a new class of TB drug candidate. The compounds also gave unique insights into the biological function of the enzymes and how they relate to tuberculosis infection, growth and persistence. Our studies have led to three high-impact peer reviewed publications thus far, and several more manuscripts are now in preparation.

In addition to my individual line of research in Cambridge, I have enjoyed undertaking various teaching/demonstrating/supervising roles to educate undergraduate students (first to fourth years) in all areas of theoretical and practical chemistry. I have had wonderful opportunities to attend major scientific conferences and meetings throughout Europe and the United States, giving oral and poster presentations of my work. This has enabled me to build an extensive international contact network and make cross-disciplinary collaborations with world-leading research groups from around the world. Non-academic life as part of Christ's College has been equally fantastic. I have made dear friends and colleagues in College, and have been involved in many social events through the Christ's College Graduate Society. My closest friendships will remain life-long connections.

I would like to take this opportunity to thank Cambridge Australia Scholarships for the generous financial support and guidance you have shown me these past few years. I have now moved to my first exciting postdoctoral research position under the guidance of Professor Jim Wells at the University of California San Francisco (UCSF), San Francisco, USA. I endeavour to become a leader of world-class research at the forefront of medicinal/biological chemistry, and my PhD from Cambridge has put me firmly on the road to achieving all my career aspirations.



**Name:** Si Ming Man  
**Degree & Subject:** PhD (Veterinary Medicine)  
**Academic Year awarded:** 2009/10  
**College:** Churchill  
**Award:** Cambridge Australia Poynton Scholarship  
**Thesis Title:** The role of inflammasome activation in the host defence against *Salmonella* infection

### 2013 Final Scholar Report:

I am very grateful for the support provided by the Cambridge Australia Scholarships and the Cambridge Commonwealth Trust. At Cambridge I completed my PhD under the supervision of Dr. Clare Bryant at the Department of Veterinary Medicine. The aim of my PhD research was to investigate the role of the immune system in the host defence against *Salmonella*, a major bacterial pathogen that causes food poisoning. I was specifically interested in studying a family of immune receptors called “Pattern Recognition Receptors” found on certain cell types within the immune system and to investigate how these receptors facilitate detection and eradication of *Salmonella* infection. Understanding the role of these receptors during bacterial infection could provide novel insights into the development of more effective treatment options for infectious diseases. My work has shown that a receptor called “NLRC4” was involved in controlling *Salmonella* infection in the immune cell type known as macrophages. This receptor recruits a range of other proteins into the same site within the cell, forming a large protein complex known as an inflammasome, to orchestrate a multifaceted immune response to control *Salmonella* infection.

I presented some of my work in international conferences held in Riva del Garda, Italy, and Liverpool, UK. I also presented my work to a general audience at a graduate conference in Churchill College, Cambridge. Some of my results are currently being prepared for publication. I have already published one article in the Journal of Biophotonics and two articles in *Nature Reviews Gastroenterology & Hepatology*; one of them was selected by the editors as featured article and was the most downloaded article for several weeks. My other contributions to science include being invited to serve as a referee for 15 different international scientific peer-reviewed journals over the last three years.

During my PhD, I taught Part IB undergraduate students at the Department of Pathology at the University. As a lab demonstrator, I introduced students to basic bacteriological techniques and the use of conventional culture media and biochemical tests to differentiate bacterial species. I thoroughly enjoyed this experience because I get to share my passion and knowledge for microbiology with other budding scientists.

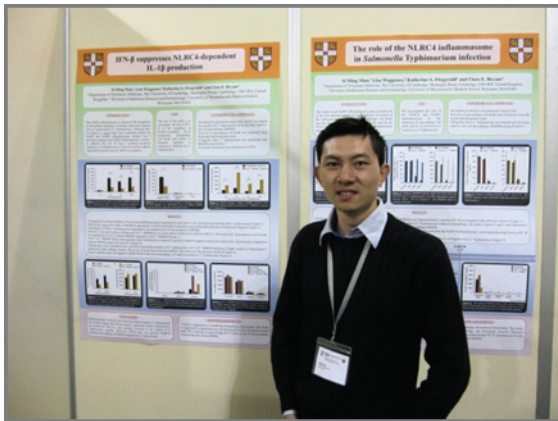
For the past three years, I volunteered for “Crash, Bang, Squelch!” as part of the Cambridge Science Festival. As a lab demonstrator for the *Drosophila* experiment, I used various diagrams and live *drosophila* specimens to show visitors that different genetic variations of an organism can translate to differences in appearance or susceptibilities to disease. I was thrilled to be involved because it gave me a unique opportunity to interact and engage with the general public and tell them how research on flies have a profound effect on our understanding of human health and disease.

I maintained a close relationship with the research community in Australia during my studies in Cambridge. During this time I was the Convenor of the Student Special Interest group within the Australian Society for Microbiology. One of my major achievements was organising a workshop for PhD students entitled “Careers in Microbiology – Beyond your PhD” at the Australian Society for Microbiology Annual Conference, which was held in Hobart, 2011. The list of speakers I secured included Professor Liz Hartland (University of Melbourne), Professor Steve Djordjevic (University of Technology Sydney), Professor Hazel Mitchell (University of New South Wales), Mark van Asten (Diagnostic Technology) and Helen Smith (Queensland Health Forensic and Scientific Services). The speakers gave invaluable careers advice to students about working in academia, industry and public health and highlighted the ‘highs’ and ‘lows’ associated with working in each of these sectors. I was thrilled to learn that the responses from students have been overwhelmingly positive. I will continue to maintain a strong tie with science leaders and budding researchers from Australia in the future.

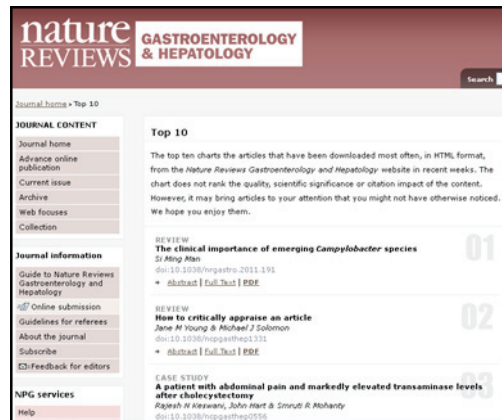
Studying in the UK has provided me with many opportunities to travel to different parts of Europe. My adventure included visits to Rome, Venice, Paris, Barcelona, Geneva, Interlaken, Dublin and Athens.

Since completing my PhD, I have accepted a postdoctoral position in the laboratory of Dr. Kanneganti at St Jude Children’s Research Hospital in Memphis, Tennessee, USA, where I will continue to investigate the dynamic interaction between the innate immune system and infectious microbes. After my postdoctoral work in America, my goal is to return to Australia, where I will establish my own independent research group and thrive to be an internationally recognised research leader in the field of infection and immunity.

Finally, I would like to gratefully acknowledge the Cambridge Australia Scholarships and the Cambridge Commonwealth Trust for their generous support and for giving me the wonderful opportunity to study at the University of Cambridge.



My poster presentation at the Toll 2011 Innate Immunity conference held in Riva del Garda, Italy, 2011.



I was thrilled to learn that my article went Number 1 on the Nature Reviews Gastroenterology & Hepatology Download Chart for several weeks.



**Name:** **Brendan McMahon**  
**Degree & Subject:** **PhD (Engineering)**  
**Academic Year awarded:** **2008/9**  
**College:** **Trinity Hall**  
**Award:** **Cambridge Australia Poynton  
Scholarship**  
**Thesis Title:** **Deformation Mechanisms  
Beneath Shallow Foundations**

### **2013 Final Scholar Report:**

The final year of my PhD saw the submission and successful completion of my Viva. Since this time I have wrapped up my research work by writing a Paper using my experiment results and a short technical note which are both currently under review.

Apart from work, I continued to play Rugby for Trinity Hall. This season we made it all the way to the Grand Final of Cuppers (only to lose by a few points!). This was an excellent season and we had great fun on and off the field.

As I have now finished and head towards the big city of London to begin full-time employment I would again like to offer a big thank you to the Cambridge Commonwealth Trust for providing this opportunity through the award of a Cambridge Australia Poynton Scholarship.

# SINCERE THANKS TO OUR DONORS

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All CAS scholarships are funded, in conjunction with the Cambridge Trusts, by individual donations.

Named scholarships have been established through the generosity of the following donors:

- Mr Charles Allen AO – Cambridge Australia Allen scholarships, Cambridge Australia Bragg scholarships, Cambridge Australia McCrum scholarships; also Cambridge Australia Allen masters scholarships
- Professor Jan Anderson - Cambridge Australia Newnham scholarships
- Professor Henry Bennett - Cambridge Australia Fisher scholarships
- Miss Kathleen Hammer (Dec'd) in memory of Barbara Fulton (Dec'd) - Cambridge Australia Fulton scholarships
- Lady Kater - Cambridge Australia Kater scholarships
- Mr Patrick Moore – Patrick Moore Cambridge Australia masters scholarships
- Dr Orde Poynton (Dec'd) – Cambridge Australia Poynton scholarships
- Mr Christopher K G Rowe and the Downing Family - Cambridge Australia Downing masters scholarship in law
- Professor Peter and Dr Barbara Treacy - Cambridge Australia Oliphant scholarships

Grateful thanks to the other donors to Cambridge Australia Scholarships Ltd from 1/7/2012 to 30/6/2013.

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Mr William Hayward	Mr Carl Ward
Dr Alan Hellier	Dr John White
Dr Roger Hiller	Mr Darren White
	Dr Nicholas Wickham

Special thanks also to:

- Ormond College (at the University of Melbourne) and its Master, Dr Rufus Black, who have generously provided office space and other support to CAS
- the ANU Endowment for Excellence, and Dr Colin Taylor (Director, Alumni Relations and Philanthropy), for its support managing the Cambridge Australia Scholarships Fund
- Minter Ellison Lawyers for legal and other support

# FINANCIAL REPORT

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**Cambridge Australia Scholarships Limited**  
**ACN 146 517 366**

Financial Report for the year ended  
31 December 2012



**Cambridge Australia Scholarships Limited**  
**ACN 146 517 366**  
**Financial Report for the Year Ended 31 December 2012**

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# Cambridge Australia Scholarships Limited

ACN 146 517 366

## Financial Report for the Year Ended 31 December 2012

### STATEMENT OF COMPREHENSIVE INCOME FOR THE YEAR ENDED 31 DECEMBER 2012

	Note	2012	2011
		\$	\$
Donation revenue	2a	42,000	10,000
Interest revenue		289	207
Administration expenses	2b	(18,181)	(1,523)
Travel expenses		(1,901)	(6,057)
Accounting expenses		(2,200)	(4,125)
Other expenses	2c	(4,628)	(2,188)
<b>Surplus/(deficit) for the year</b>		<b>15,379</b>	<b>(3,687)</b>
<b>Other comprehensive income for the year</b>		<b>-</b>	<b>-</b>
<b>Total comprehensive income for the year</b>		<b>15,379</b>	<b>(3,687)</b>
Total comprehensive income attributable to members of the entity		15,379	(3,687)

The accompanying notes form part of these financial statements.

# Cambridge Australia Scholarships Limited

ACN 146 517 366

## Financial Report for the Year Ended 31 December 2012

### STATEMENT OF FINANCIAL POSITION AS AT 31 DECEMBER 2012

	2012	2011
	\$	\$
<b>ASSETS</b>		
CURRENT ASSETS		
Cash and cash equivalents	9,285	1,320
Trade and other receivables	13,500	-
Inventories	-	-
Other assets	-	-
<b>TOTAL CURRENT ASSETS</b>	<b>22,785</b>	<b>1,320</b>
<b>TOTAL ASSETS</b>	<b>22,785</b>	<b>1,320</b>
<b>LIABILITIES</b>		
CURRENT LIABILITIES		
Trade and other payables	6,086	-
Income in advance	-	-
<b>TOTAL CURRENT LIABILITIES</b>	<b>6,086</b>	<b>-</b>
<b>TOTAL LIABILITIES</b>	<b>6,086</b>	<b>-</b>
<b>NET ASSETS</b>	<b>16,699</b>	<b>1,320</b>
<b>EQUITY</b>		
Accumulated surpluses	16,699	1,320
<b>TOTAL EQUITY</b>	<b>16,699</b>	<b>1,320</b>

The accompanying notes form part of these financial statements.

**Cambridge Australia Scholarships Limited**  
**ACN 146 517 366**

**Financial Report for the Year Ended 31 December 2012**

STATEMENT OF CHANGES IN EQUITY  
FOR THE YEAR ENDED 31 DECEMBER 2012

<b>2012</b>	<b>Accumulated</b>	<b>Total</b>
	<b>surpluses</b>	
	<b>\$</b>	<b>\$</b>
<b>Balance as at 1 January 2012</b>	1,320	1,320
Surplus for the year	15,379	15,379
<b>Balance as at 31 December 2012</b>	<u>16,699</u>	<u>16,699</u>

<b>2011</b>	<b>Accumulated</b>	<b>Total</b>
	<b>surpluses</b>	
	<b>\$</b>	<b>\$</b>
<b>Balance as at 1 January 2011</b>	5,007	5,007
Deficit for the year	(3,687)	(3,687)
<b>Balance as at 31 December 2011</b>	<u>1,320</u>	<u>1,320</u>

The accompanying notes form part of these financial statements.

# Cambridge Australia Scholarships Limited

## ACN 146 517 366

### Financial Report for the Year Ended 31 December 2012

#### NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2012

##### NOTE 1: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The directors have prepared the financial statements on the basis that the company is a non-reporting entity because there are no users who are dependent on its general purpose financial statements. These financial statements are therefore special purpose financial statements that have been prepared in order to meet the requirements of the *Corporations Act 2001*.

The financial statements have been prepared in accordance with the mandatory Australian Accounting Standards applicable to entities reporting under the *Corporations Act 2001* and the significant accounting policies disclosed below, which the directors have determined are appropriate to meet the needs of members. Such accounting policies are consistent with those of previous periods unless stated otherwise.

The financial statements have been prepared on an accruals basis and are based on historical costs unless otherwise stated in the notes. Material accounting policies adopted in the preparation of these financial statements are presented below and have been consistently applied unless stated otherwise. The amounts presented in the financial statements have been rounded to the nearest dollar.

#### Accounting Policies

##### a. Revenue

Grant revenue is recognised in the statement of comprehensive income when the entity obtains control of the grant and it is probable that the economic benefits gained from the grant will flow to the entity and the amount of the grant can be measured reliably.

If conditions are attached to the grant which must be satisfied before it is eligible to receive the contribution, the recognition of the grant as revenue will be deferred until those conditions are satisfied.

When grant revenue is received whereby the entity incurs an obligation to deliver economic value directly back to the contributor, this is considered a reciprocal transaction and the grant revenue is recognised in the statement of financial position as a liability until the service has been delivered to the contributor, otherwise the grant is recognised as income on receipt.

Donations and bequests are recognised as revenue when received.

Interest revenue is recognised as it accrues using the effective interest rate method, which for floating rate financial assets is the rate inherent in the instrument. Dividend revenue is recognised when the right to receive a dividend has been established.

##### b. Accounts Receivable and Other Debtors

Accounts receivable and other debtors include amounts due from donors and any outstanding grants receipts. Receivables expected to be collected within 12 months of the end of the reporting period are classified as current assets. All other receivables are classified as non-current assets.

##### c. Income Tax

No provision for income tax has been raised as the entity is exempt from income tax under Div 50 of the *Income Tax Assessment Act 1997*.

##### d. Economic Dependence

Under an arrangement with the Australian National University (ANU), the assets that enable scholarships to be granted over time are held by the ANU Endowment for Excellence in trust. The Board of Directors have no reason to believe the relationship with the ANU will change materially in the next twelve months.

**Cambridge Australia Scholarships Limited**  
**ACN 146 517 366**

**Financial Report for the Year Ended 31 December 2012**

**NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 DECEMBER 2012**

**NOTE 1: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES**

**e. Accounts Payable and Other Payables**

Trade and other payables represent the liability outstanding at the end of the reporting period for services received by the company during the reporting period which remain unpaid. The balance is recognised as a current liability with the amount being normally paid within 30 days of recognition of the liability.

**f. New Accounting Standards for Application in Future Years**

The AASB has issued the following Accounting Standard which is mandatorily applicable for future reporting periods and is relevant to the company. The company has decided not to early adopt this Accounting Standard. The company's assessment of this Accounting Standard is set out below:

AASB 2011–9: Amendments to Australian Accounting Standards – Presentation of Items of Other Comprehensive Income (applicable for annual reporting periods commencing on or after 1 July 2012).

The main change arising from this Standard is the requirement for entities to group items presented in other comprehensive income (OCI) on the basis of whether they are potentially reclassifiable to profit or loss subsequently.

This Standard affects presentation only and is therefore not expected to significantly impact the company.

**Cambridge Australia Scholarships Limited**  
**ACN 146 517 366**

**Financial Report for the Year Ended 31 December 2012**

NOTE 2: INCOME AND EXPENSES FROM ORDINARY ACTIVITIES

- 2a Donation revenue consists of transfer from funds held by ANU Endowment for Excellence.
- 2b Administration expense of \$18,181 includes \$15,599 of fees for a new administrator who commenced in August 2012.
- 2c Other expenses are made up of miscellaneous expenses such as website costs and other incidental expenses.

NOTE 3: ENTITY DETAILS

The registered office of the company is:

Cambridge Australia Scholarships Limited  
 Ormond College  
 49 College Crescent  
 Parkville VIC 3052

The principal place of business is:

Cambridge Australia Scholarships Limited  
 Ormond College  
 49 College Crescent  
 Parkville VIC 3052

NOTE 4: AUSTRALIAN NATIONAL UNIVERSITY ENDOWMENT FOR EXCELLENCE – CAMBRIDGE AUSTRALIA SCHOLARSHIP FUND

As outlined in note 1 to the financial statements, funds held in relation to the company's scholarships are held by the ANU Endowment for Excellence in trust in the Cambridge Australia Scholarship Fund. This fund has net tangible assets as at 31 December 2012 totalling \$7,142,597. During the year ended 31 December 2012 the fund's financial performance was as follows:

	2012	2011
<b>Revenue</b>		
Donation revenue	893,821	905,232
Dividend revenue	184,927	185,852
Interest revenue	78,982	69,168
Other revenue	60,999	72,315
Total revenue	<u>1,218,729</u>	<u>1,232,567</u>
<b>Expenses</b>		
Scholarship expense	771,214	456,669
Secretarial expense	15,000	9,779
Realised gain / loss on foreign exchange translation	(1,168)	3,572
Other	28,565	20,624
Total costs	<u>813,611</u>	<u>490,644</u>
Net surplus	<u>405,118</u>	<u>741,923</u>

# **Cambridge Australia Scholarships Limited**

**ACN 146 517 366**

## **Financial Report for the Year Ended 31 December 2012**

### **NOTE 4: AUSTRALIAN NATIONAL UNIVERSITY ENDOWMENT FOR EXCELLENCE – CAMBRIDGE AUSTRALIA SCHOLARSHIP FUND (CONTINUED)**

The company's directors and/or the nominees provide guidance in relation to the scholarships to be awarded as required by the Company's Constitution.

In the current year the Company supported 24 scholarships recipients. The combined group's capacity to provide scholarships rests on the following key issues:

- Level of ongoing donor support
- Level of investment income generated on endowment funds
- Changes to Cambridge University and college costs
- \$A / Sterling exchange rate
- Administration expenditure

The company's directors continue to work towards a seamless and transparent financial reporting solution for the combined group and its stakeholders.



**Cambridge Australia Scholarships Limited**  
**ACN 146 517 366**

**Financial Report for the Year Ended 31 December 2012**

**DIRECTORS' DECLARATION**

The directors have determined that the company is not a reporting entity and that this special purpose financial report should be prepared in accordance with the accounting policies described in Note 1 to the financial statements.

The directors of the company declare that:

1. The financial statements and notes are in accordance with the *Corporations Act 2001* and:
  - a. comply with Accounting Standards to the extent outlined in Note 1 to the financial statements; and
  - b. give a true and fair view of the financial position as at 31 December 2012 and of the performance for the year ended on that date in accordance with the accounting policies described in Note 1 of the financial statements.
2. In the directors' opinion there are reasonable grounds to believe that the company will be able to pay its debts as and when they become due and payable.

This declaration is made in accordance with a resolution of the Board of Directors.

TJR Scheier

Dated this 25<sup>th</sup> day of March 2013

(Director)

COMPILATION REPORT TO THE MEMBERS OF  
CAMBRIDGE AUSTRALIA SCHOLARSHIPS LIMITED

We have compiled the accompanying special purpose financial statements of Cambridge Australia Scholarships Limited, which comprise the statement of financial position as at 31 December 2012, the statement of comprehensive income for the year then ended, the statement of changes in equity, a summary of significant accounting policies and other explanatory notes. The specific purpose for which the special purpose financial statements have been prepared is set out in Note 1.

*The Responsibility of the Directors of Cambridge Australia Scholarships Limited*

The directors of Cambridge Australia Scholarships Limited are solely responsible for the information contained in the special purpose financial statements and have determined that the significant accounting policies adopted as set out in Note 1 to the financial statements are appropriate to meet their needs and for the purpose that the financial statements were prepared.

*Our Responsibility*

On the basis of information provided by the directors of Cambridge Australia Scholarships Limited, we have compiled the accompanying special purpose financial statements in accordance with the significant accounting policies adopted as set out in Note 1 to the financial statements and APES 315: Compilation of Financial Information.

Our procedures use accounting expertise to collect, classify and summarise the financial information, which the directors provided, in compiling the financial statements. Our procedures do not include verification or validation procedures. No audit or review has been performed and accordingly no assurance is expressed.

The special purpose financial statements were compiled exclusively for the benefit of the directors of Cambridge Australia Scholarships Limited. We do not accept responsibility to any other person for the contents of the special purpose financial statements.

Saward Dawson Chartered Accountants

Tim Flowers  
Partner

25.3.13

# DIRECTORY

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## **Cambridge Australia Scholarships Limited**

ACN 146 517 366

ABN 71 146 517 366

C/- Ormond College  
The University of Melbourne  
49 College Crescent  
Parkville Vic 3052

Tel: + 61 3 9344 1144

E: [cambridge@ormond.unimelb.edu.au](mailto:cambridge@ormond.unimelb.edu.au)

W: [www.cambridgeaustralia.org.au](http://www.cambridgeaustralia.org.au)

### **Administrator:**

Justine Koster

### **Auditor:**

Saward Dawson  
20 Albert Street/PO Box 256  
Blackburn Victoria 3130

### **Corporate history:**

Cambridge Australia Scholarships Limited was incorporated on 24 September 2010 as a not-for-profit company limited by guarantee. It is the legal successor to the Cambridge Australia Trust.

Its Constitution and details of its operations are available on the website:

[www.cambridgeaustralia.org.au](http://www.cambridgeaustralia.org.au).

As a result of 2010 changes to the *Corporations Act (Cth)*, CAS is considered a small company limited by guarantee with consolidated revenue less than the statutory threshold of \$250,000. As such, it is not required, unless directed to do so under specified circumstances, to:

- prepare a financial report or have it audited
- prepare a directors' report
- notify members of annual reports

However, given that the directors of CAS intend to operate, wherever possible, in accordance with good corporate governance principles, CAS has published this Annual Report and its accounts.