The background of the entire page is a dense field of microscopic organisms. There are numerous rod-shaped bacteria, some with flagella, and several spherical viruses with prominent surface spikes. The colors are primarily warm, with oranges, yellows, and reds, set against a dark, almost black background.

# Marshall Alumni Newsletter

December 2012

Marshalls find  
Science is Golden

# Editor's Letter



Earlier this year in our June publication we decided to try a themed issue by focusing on Marshall Scholars in the military. The response to this issue was overwhelmingly positive so we've decided to try again—this time focusing on Marshall scientists.

Marshall Scholars have applied their diverse interests and skills in the sciences to make significant impacts in the lab, the halls of government and the private sector. We hope you enjoy our snapshot into this segment of the Marshall community and look forward to producing additional themed collections in future issues.

Finally, after this issue Suzette Brooks Masters will be taking a much deserved break from her role as the Profiles Editor. Suzette was a key member of the team responsible for launching the Marshall Alumni Newsletter and we're very grateful for her extensive contributions over the last 4 years.

The newsletter team always welcomes your feedback and contributions. Please get in touch with us at [newsletter@marshallscholars.org](mailto:newsletter@marshallscholars.org).

Nicholas T. Hartman, Managing Editor

## **Nicholas Hartman**

Managing Editor

(Pennsylvania State, B.S. 2003; Darwin College, Cambridge, Ph.D. 2008)

Nicholas is a director at the New York City office of CKM Advisors and lives in Westchester.

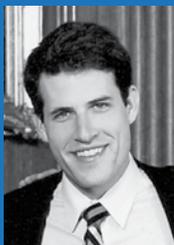
# Contributors



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Deputy Editor

(Northwestern, B.S. 1996, M.S. 1996, Ph.D. 1999; Sherfield Postdoctoral Fellow, Imperial College 1999) After 11 years as a professional editor of biomedical research journals, Ushma is now the Director of the Office of the President of Memorial Sloan-Kettering Cancer Center.



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AMS News and Events Editor

(Harvard, B.A. 2000; M. Phil. Magdalen College, Oxford 2002; Yale, J.D. 2005) Bryan is the founder and CEO of Ibotta ([www.ibotta.com](http://www.ibotta.com)). Bryan is a Vice President of the Association of Marshall Scholars, member of the AMS Board, and Chairman of the Communications Committee.



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Profiles Editor

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Special Features Editor

(Williams College, B.A. 2009; LSE, M.Sc.; Kings College London, M.A.) Aroop recently finished his Marshall tenure in August 2012, before which he was a Junior Fellow at the Carnegie Endowment for International Peace. He now lives and works in Washington, DC.



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Editor-at-Large

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(Kenyon College, B.A. 1993; School for Oriental and African Studies, M.A. 1995) Teresa combines her love of analysis with her foreign language capabilities while working for Science Applications International Corporation (SAIC) on government contracts.



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Online News Editor

(Mercyhurst University, B.A. 2005; St. Andrews, M.Litt. 2006; St. Antony's College, Oxford, M.Sc. 2007) Tim currently lives in Oslo, Norway, where he works as CEO Advisor at Statoil. He is also a student in the Cross-Continent MBA program at the Fuqua School of Business at Duke University.

Newsletter design: Lara McCarron

Cover image: Tischenko Irina

# News from the AMS

By Bryan Leach (Oxford '00)

In mid-September, the British Embassy hosted its annual tea in honor of the departing class of Marshall Scholars. British Ambassador Sir Peter Westmacott and Lady Westmacott hosted the event in their Ambassadorial residence. Hundreds of guests attended, including the newly-minted Marshalls, other current Marshall Scholars, and Marshall Scholar alumni. Ambassador Westmacott delivered remarks about the history and significance of the Marshall Scholarship. William J. Burns, 1978 Marshall Scholar and US Deputy Secretary of State, was the guest of honor and delivered an inspiring speech about his time as a Marshall Scholar and how his experience in the United Kingdom has influenced his career.

That evening, several Marshall Scholar alums hosted members of the Marshall Scholars' Class of 2012 for dinner at restaurants in the Washington DC area. As the date coincided with Rosh Hashanah, one Marshall Scholar alum hosted Jewish Marshall Scholars for a Rosh Hashanah dinner at his home.

Later in the week, the British Embassy hosted a workshop for the 2012 Marshall Scholars. The workshop was led by a combination of Embassy officials and Marshall Scholar alums and was divided into thematic groups, such as the creative arts and science and technology. Afterwards, representatives from among the 2012 Marshall Scholars in each thematic group presented to the whole class of Marshall Scholars the group's conclusions and recommendations.

On the same day, British Embassy Counselor for Political & Public Affairs James Kariuki spoke to the 2012 Marshall Scholars about the importance of the Marshall Scholarship.



The send-off program for 2012 Marshall Scholars included a visit to Congress and discussion with former Chairman of the House Budget Committee John Spratt (Oxford '64).

2002 Marshall Scholar Zachary Kaufman spoke to the group about Marshall Scholars' Public Service Projects.

A volunteer digital communications committee comprised primarily of younger Marshalls is being recruited to create a more contemporary and robust digital presence for our association. Serving on this committee will involve working to refine and improve the AMS's online presence and developing strategies for leveraging the AMS's social media channels more effectively. If you would like to serve on this important new committee, please write an email to [admin@marshallscholars.org](mailto:admin@marshallscholars.org), indicating your willingness to serve on the committee. To attract interest among highly credentialed Marshalls, the AMS will consider this an exclusive committee to which only the best of the best need apply.

Under the leadership of AMS President Bob Gray, the Association has begun to explore the notion of raising a U.S.-based, alumni-driven scholarship endowment, as a small financial supplement to the Parliamentary grant-in-aid, as part of a transatlantic public/private UK/US partnership, and have convened two face-to-face meetings in 2012 with key potential donors to advance this proposal. As of this writing, firm funding commitments are not in hand, but it is hoped that a supplemental fund can be formally established later this year or during the first quarter of 2013. As these efforts continue to take shape, more news will follow.



The 2012 Marshall Scholars at the British Ambassador's Residence in Washington DC

Photos: Carrie Dorean for the British Embassy in Washington

# When a Marshall Goes Viral

By Ushma S. Neill (Imperial '99)

**Intrigued by the potential to have an impact on global health, Dan Barouch (Oxford '93) has produced an impressive set of data on the immunology and virology of HIV-1 infection and is working on developing novel vaccine strategies.**

**S**o how does a small town boy end up as a world-class scientist working on the frontier of HIV prevention and treatment? Through a trifecta recognizable to many Marshall alumni: tenacity, verve and diligence.

Barouch grew up in Potsdam, New York and then attended Harvard College as a Barry Goldwater Scholar. It was there that his ever-growing fascination with the biomedical sciences blossomed to include the possibility of utilizing science to improve global health. His undergraduate thesis, "The interaction between the major and minor coat proteins of polyomavirus" helped him to earn 2 of Harvard's most prestigious prizes for undergraduates in 1993, the Lawrence J. Henderson Prize and the Thomas T. Hoopes Prize. It also garnered him the notice of the committee deciding on Marshall Scholars for the Northeast region. "My Marshall interview in Boston was engaging, lively, and friendly. I had wanted to go to Oxford to work with Andrew McMichael, who was a luminary in biomedical research for contributions to our understanding of influenza, HIV, and cellular immunology."

His time in England was a contrast of old and new; he recalls the ancient traditions of St. Johns College at Oxford alongside new friends in a new country coupled with the cutting-edge research he did in McMichael's lab. His favorite recollections include Oxford teas, high table, rowing crew, meeting fellow Marshalls in the pubs after work, and

above all, the research that set him on his future course. Barouch added, "the Marshall experience fundamentally gave me two appreciations: first for living abroad and exploring the world and second for my professional interest in HIV research, on which my career has been based."

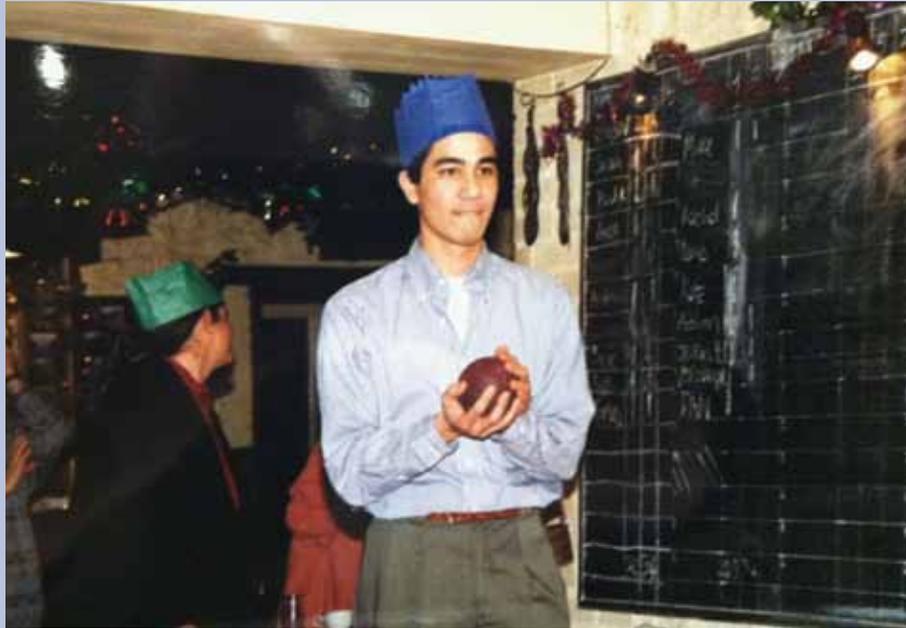
After completing his Ph.D. at Oxford in just two years, Barouch returned to the US to attend Harvard Medical School and then finished his clinical training in Internal Medicine and Infectious Diseases at the Massachusetts General Hospital (MGH), while finishing a postdoctoral research fellowship in the laboratory of HIV pioneer Norman Letvin. Harvard managed to retain Barouch and he set up his own HIV research lab there in 2002.



Part of the reason Harvard clamored for Barouch to stay was the innovative approach he took with Letvin in leading one of the most prominent AIDS vaccine trials in years. The trial involved immunizing eight monkeys (the standard for HIV research) with an experimental vaccine. The monkeys that did not receive the vaccine quickly contracted SIV

(simian immunodeficiency virus, a variation of the human HIV virus) and died. Despite the fact that vaccinated monkeys did become infected when exposed to SIV, the vaccine kept the virus in check for an extended period of time.

In one of the vaccinated monkeys, the SIV virus mutated, allowing it to replicate unchecked by the monkey's



Barouch during his time at Oxford

Barouch wrote, “After a valiant, several year struggle with pancreatic cancer, Norm passed away in May 2012. Norm was a great scientist, mentor, and friend to so many people.”

Barouch has paid tribute to his other mentor recently as well, adding “I have gone back to Oxford every couple years as a visiting speaker, and most recently in September 2012 to attend my Ph.D. advisor Andrew McMichael’s retirement celebration.” He was able to revisit those contrasting memories of his time as a Marshall during his trip by having tea and learning more about the cutting-edge research still being done on HIV at Oxford. The memories of his Marshall days are ever vivid in his mind, “I remember my first tea at the British Ambassador’s residence in DC and I have remained close friends with

immune system. The monkey’s entire viral population changed to the mutated strain in less than six weeks; this was remarkable as it was one of the first clues about the amazing replicative capacity and mutability of the SIV/HIV virus. Armed with this knowledge, Barouch then set out to improve vaccine strategies.

His current lab explores two novel vaccine delivery technologies: vaccine vectors and adjuvants. Vectors are the delivery vehicles that transport the antigen (an offending protein that causes an antibody response) of interest into human cells. Examples of vectors that the Barouch lab is investigating include vaccinia virus (the virus that is the vaccine for smallpox) and various forms of adenovirus (one of the common virus families that cause cold symptoms). Adjuvants are signaling molecules designed to increase and steer the response to the antigens—in essence a way to boost the immune system’s reaction to an offensive protein.

Developing an effective vaccine against HIV could be called one of the biggest biomedical challenges of our time. Many feel that even a vaccine that is only partially effective could reduce the number of infections worldwide and could improve clinical outcomes for those who become infected. To do this work well, collaboration is essential. Barouch adds, “My group is a key part of the Bill & Melinda Gates Foundation Collaboration for AIDS Vaccine Discovery, the NIH Center for HIV/AIDS Vaccine Immunology and Immunogen Design, and the Ragon Institute of MGH, MIT, and Harvard.”

Beyond cooperating with an international set of collaborators, Barouch was recently tapped to succeed his mentor Norm Letvin as Director of the Center for Virology and Vaccine Research at Beth Israel Deaconess Medical Center.

several fellow Marshalls.”

However much he remembers those who taught him, Barouch has now turned his attention to being the leader and pioneer in HIV vaccines. His recent paper in *Nature* homed in on the critical ingredients of a protective HIV vaccine and identified new HIV vaccine candidates to test in human clinical trials. His experimental vaccine regimens reduced monkeys’ likelihood of becoming infected by 80 to 83% compared to a placebo vaccine regimen. Further, in the monkeys that did become infected, the experimental vaccine regimens substantially reduced the amount of virus in the blood. Barouch noted, “There’s more hope than ever before that an AIDS vaccine might be possible.”



Barouch and Andrew McMichael

# Finding a Deeper Sense of Mission

By Suzette Brooks Masters (Cambridge '81)

Inspired by extensive world travel and a sense of purpose rooted in personal tragedy, Craig Basson (Oxford, '82) has committed himself to improving global health outcomes.

Craig Basson (Oxford '82) grew up on Long Island, New York, in a home bursting with intellectual and cultural stimulation. Extensive and ambitious foreign travel was a key part of Basson's upbringing and a major summer pastime. In fact, Basson's budding interest in science and medicine was sharpened by memorable experiences in exotic venues on some of these family holidays.

"I vividly remember climbing hills in Kathmandu stunned to see impoverished victims of leprosy crouching on the side of the road and extending maimed hands, and my parents reinforcing our recognition of what fortunate lives we lived to have access to modern medicine. I wanted to be part of that."

Basson was admitted to Washington University's Scholars Program in Medicine, which guaranteed his admission to medical school. This took some academic pressure off and enabled Basson to pursue more diverse interests at college. He was a double Biology and French major, writing his honors thesis on attitudes toward physicians in 17th and 18th century French literature. He also was the editor in chief of the University's quarterly journal of arts and literature, and he included in this journal essays on euthanasia and medical access. But these more literary pursuits didn't detract from his love of medicine.

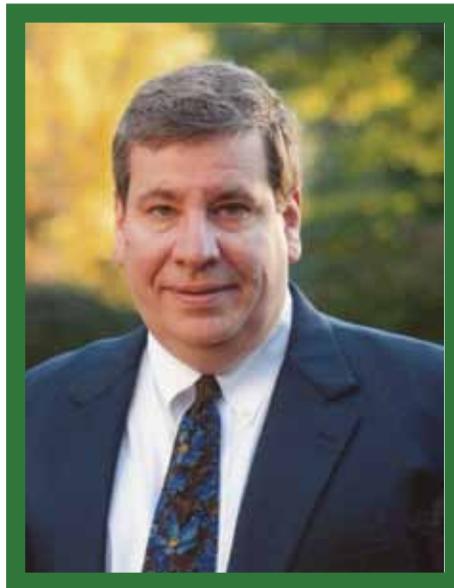
"Daily, I trekked to the medical school campus to pursue biomedical research. One summer, I had the opportunity to investigate how tumors spread when I trained in a student research program at MD Anderson Hospital in Houston."

At Washington University, he pursued a Masters in Biology to "decipher the mysteries of myocardial energetics and ischemia."

The Marshall Scholarship was of great interest to Basson given his love of science and travel. He was drawn to the Sir William Dunn School of Pathology at Oxford, where the first antibiotics and the methods to fuse cells together to make monoclonal antibodies were devised. He had been advised that studying with Dr. Eric Sidebottom there would provide superb training in cell biology.

The Marshall interview process in Chicago was a blur but Basson recalls fondly "answering the phone in my small broken down apartment in St. Louis one morning and hearing a crisp British accent from the Marshall Commission congratulating me on securing the scholarship."

Basson thrived at Oxford's Lincoln College, enjoying his academic routines and frequent travel throughout Europe and the Middle East with Oxford friends. "Daily, I would cycle to the Dunn School with a stop to play squash with friends a few times a week on the way back. While many of my friends were fellow expats, the most durable friendships were with many of my British colleagues whom I still remain close to." He recently attended a Lincoln College reunion event in Boston.



After receiving an MSc in Physiological Sciences from Oxford, Basson returned to the United States in 1984 to pursue MD/PhD training at Yale, a medical residency at Johns Hopkins, and cardiology and genetics fellowships at Brigham and Women's Hospital and Harvard. Basson



Basson and his children on London's Westminster Bridge

He was proud to be having a high impact on a small circle of patients but realized that he wanted the impact to affect a broader population. At Cornell, his laboratory's accomplishments involved discovering the cause of several inherited heart diseases and providing new molecular genetic diagnostic techniques for those suffering from these diseases. Now it was time to have a more immediate therapeutic impact on a larger group of individuals.

During this period of self-reflection, Novartis approached Basson in late 2009 to consider a move to industry. He recalls having been asked many times to look at positions in industry but had never been tempted – until then.

Basson saw the Novartis position as unique. The Novartis Institutes for Biomedical Research (NIBR) in Cambridge, Massachusetts, were founded ten years ago. Novartis' research and development program, it was created with a mission to innovate while developing new medicines to meet unmet medical needs around the world. Basson was hooked.

"I was attracted to the opportunity for immediate and wide impact on large numbers of individuals globally, and to a culture that celebrates improving the lives of patients and eradicating illness without being limited by the commercial interests that affect other pharmaceutical organizations."

So in 2010, Basson left his tenured professorship and endowed chair at Cornell to become Global Head for Cardiovascular Translational Medicine at Novartis. At NIBR, Basson works with Novartis teams to invent and test new drugs for all forms of heart disease including atherosclerosis, heart failure, hypertension, heart arrhythmias, and genetic disorders of the heart and blood vessels.

"Every day I am privileged to be able to come to work and find opportunities to advance our basic science research efforts into the clinic as we develop new medicines to help so many people worldwide."

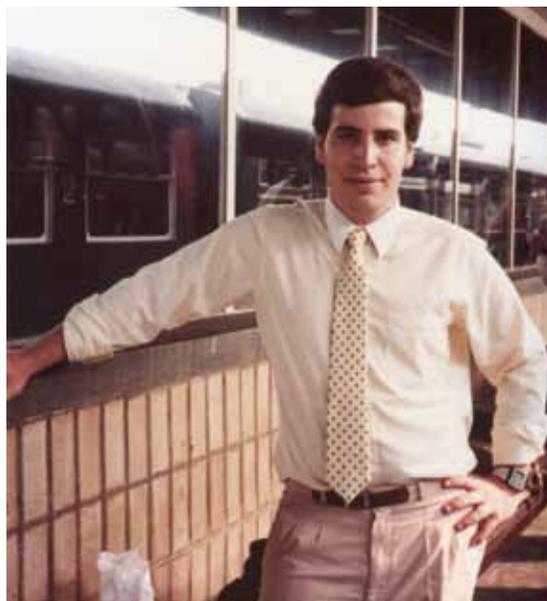
notes that at each of those institutions there was always an Oxford connection – a fellow trainee, a faculty colleague, and even sometimes a patient. When he moved on to faculty cardiology and academic leadership positions at Harvard and then for many years at Cornell, his Marshall experience at Oxford positively influenced his research efforts.

"My Oxford training taught me how to build an independent laboratory program by starting from scratch with equipment, reagents, and strategies fabricated by my own hands and mind."

In the midst of all these professional adventures, Basson married a wonderful loving woman who was also a brilliant physician. They had three children together. Unfortunately, she succumbed to cancer several years ago.

"My wife taught me about work-life balance as she remarkably balanced her love of being a mother with an unstinting commitment to her patients. Sadly, I learned how hard life is on the other end of a stethoscope when I lost her to pancreatic cancer. My three children remain the jewels in our crown and motivate me to redouble my efforts to tackle human illness."

Later, Basson began to think more deeply about his role in the medical field and to reflect on the impact he was having on patients and the health of the public more broadly.

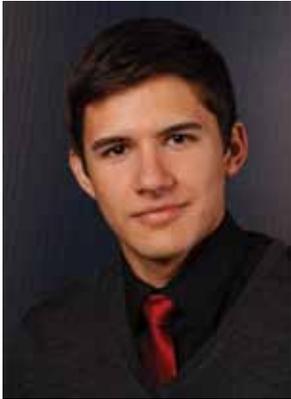


Basson during his tenure in the UK as a Marshall Scholar

# MEET CURRENT MARSHALL

## Nicolas Altemose (Oxford '11)

Duke University; From Temecula, CA



*Which degree are you pursuing on the scholarship?*

I'm reading for an MSc by Research in Statistics (Bioinformatics) at Oxford.

*What is your research about?*

While in Oxford, I've been studying one of the most rapidly evolving genes in the human genome (PRDM9) — a gene that plays a critical role in fertility and the evolution of new species. My

work aims to discover how the protein produced by this gene performs its function at a molecular level, a process that remains poorly understood. To reveal how this protein interacts with DNA in the human genome, I spent time in the lab producing it in human cells grown under controlled conditions. Then, using high-throughput DNA sequencing technology, I isolated and sequenced the fragments of DNA to which this protein binds in these cells. I am now poring through nearly 50 Gigabytes of DNA sequence data using computational and statistical techniques to uncover the rules governing where this protein binds and what effects it has on nearby genes and regulatory proteins. We hope to shed light on why this protein evolves so rapidly and why

it's so critical for fertility, work that will hopefully culminate in a first-author publication.

*How has it been working in the UK?*

In general, the British system of scientific training takes a much more hands-off approach to mentoring graduate students, requiring a greater degree of independence and allowing for more self-determination and control on the part of the student. The facilities I've worked in are state of the art and very efficient, promoting collaboration while centralizing critical shared resources.

*Has the direction of your work evolved as a result of working here rather than in the US?*

This past year, I've been able to step back and ponder a lot of big questions in genetics and biology, often during long discussions with my supervisor. I've come to realize that I might have a bigger impact in the field by developing new tools for studying molecular biology. I'm now contemplating a switch from basic biology to bioengineering—moving out of purely descriptive work and into more generative work, which often involves and enables further basic research.

*Where do you plan to be next year?*

I'm deciding now whether to extend my research degree to earn a DPhil here in Oxford or whether to return to the US for a Ph.D. The decision largely hinges on whether I'd like to switch fields into bioengineering. If I decide to stay in genomics I will most likely stay at Oxford, which would accelerate my progress toward an academic career.

## Alessandra Speidel (Imperial '11)

Duke University; From Syracuse, NY

*Which degree are you pursuing on the scholarship?*

I'm reading for a Ph.D. at the National Heart and Lung Institute and Department of Materials at Imperial College London.

*Is your current research related to your work as an undergraduate?*

Yes, I graduated with a degree in Biomedical Engineering from Duke, where I looked at how the surface patterns of certain materials can affect certain cellular processes.

My current project has expanded on this experience to incorporate my interest in medicine and my fascination with the regenerative potential of stem cells. At Imperial I am developing a novel injection of biomaterials and cardiac progenitor cells to regenerate dead heart muscle after a heart attack.

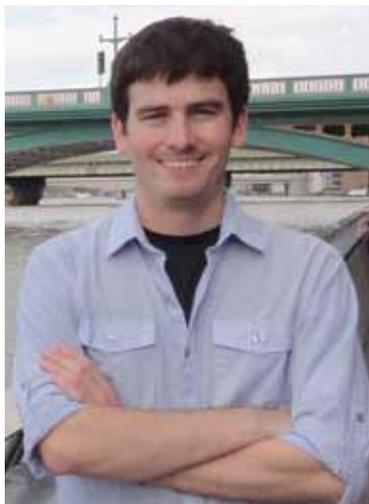


# SCIENTISTS

By John Nelson (UCL '11)

## Joshua Lupton (Cambridge '11)

University of Oregon; From Joseph, Oregon



*What was your degree course in the first year of the scholarship?*

Last year I read for the MPhil in Biological Sciences at Cambridge.

*What kind of research were you doing? Was it similar to your undergraduate work?*

At University of Oregon I worked in a *Drosophila* (fruit fly) laboratory examining the development of neural stem cells in embryos. My work at Cambridge was in a similar field, that of *Drosophila*

neural development. This continuity allowed me to hit the ground running. At Cambridge, I explored proteins effecting the development of neurons in the central nervous system of *Drosophila* larvae. In flies, as in humans, neurons transmit information throughout the body through dendrites, which receive input, and axons, which transmit this input to another cell or tissue. For our nervous systems to function these neural circuits must connect properly during development. In the case of muscles, motoneurons receive inputs from the central nervous system via dendrites and transmit this signal to the muscles via axons, causing movement. I examined the anatomy and development of the segmental nerve—a moto-

neuron dendrites in the central nervous system and found that these neurons have dendrites that are organized in specific, stereotyped regions in *Drosophila*.

Studying the proteins that control the proper growth of these dendrites during development is a critical step on the path to inducing the regrowth of neurons after injury or disease in humans.

*How has it been working in the UK?*

I worked in Dr. Matthias Landgraf's lab within the Neural Network Development Group in Cambridge's Zoology Department. I found working with British scientists not too different from working with those in the US, although there seems to be a greater degree of collaboration between UK and European research laboratories. My facilities at Cambridge were quite unique. There are few places in the world where cutting edge biomedical research is conducted in buildings several hundred years old. Although this made modern-day research a bit of a challenge at times, the history of research in the building made it a fantastic place to work.

While I still plan to go into medicine, the experience of a year in a basic science laboratory in the UK has given me a great appreciation for the hard work and dedication that goes into basic science research. My colleagues work day in and day out to advance their fields, all the while aware that basic science discoveries only rarely receive the appreciation they deserve.

*What are you doing now and next year?*

I've just begun an MSc in Public Health at the London School of Hygiene and Tropical Medicine, and next year I'll be starting medical school at the Johns Hopkins University.

*How have you enjoyed studying in the UK?*

It has been really interesting doing science here. The most surprising differences I have encountered are in the significant number of cautionary measures and the amount of training necessary in order to perform animal research. This degree of caution may be partially attributable to a more militant animal rights lobby than exists in the US. This difficulty notwithstanding, my project has been a collaborative effort between one of the leading tissue engineering labs (Professor Molly Stevens) and one of the leading stem cell biology labs (Professor Michael Schneider). It is a unique opportunity afforded by the facilities available at Imperial.

*What are your ideas for the future?*

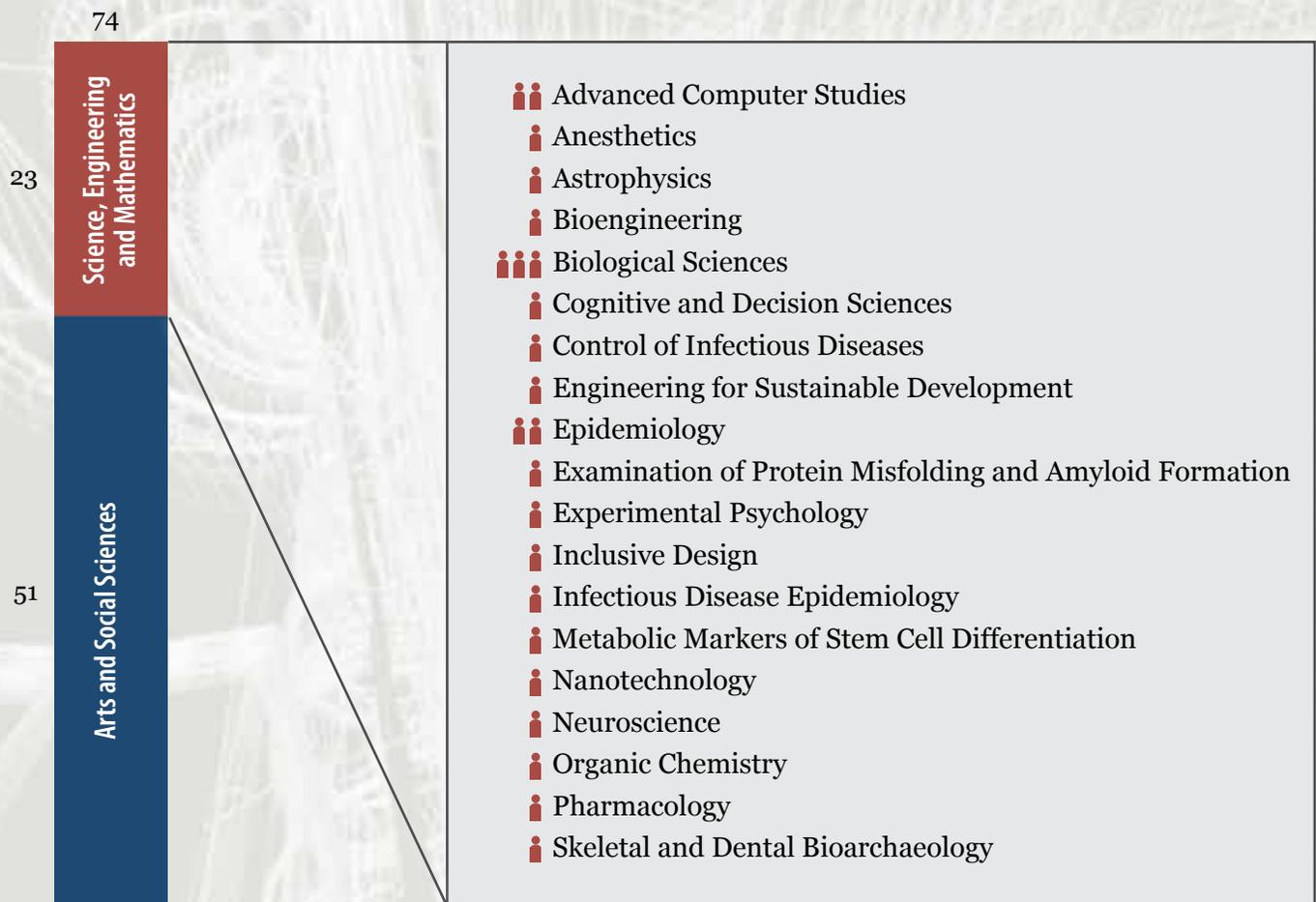
Originally my plan was to spend two years doing research here in the UK and then return to the States for an MD/Ph.D. Medical school isn't completely out of the picture, but my experience here has deepened my interest in trying out a job in the biomedical engineering industry first. That's why I applied to do the Ph.D. at Imperial.

*I take it you've enjoyed London then, if you're staying on?*

Oh yes, definitely. I have fallen in love with the energy of the city and its diversity. I'd love to live here after my tenure on the Marshall is over!

# Marshall Scientists

## *By the Numbers*



All Marshall Scholars in 2010/11 Academic Year

Data from 58th Annual Report of the Marshall Aid Commemoration Commission

### 27 million

Acres preserved by the National Landscape Conservation System created during **Bruce Babbitt's** (Newcastle '60; M.S. in Geophysics) tenure as Secretary of the Interior

### 2008

Year that **Roger Tsien** (Cambridge '72; Ph.D. in Physiology) was awarded the Nobel Prize in Chemistry for the discovery and development of green fluorescent protein

### 13–14

Length in meters of *Carcharodontosaurus Iguidensis*, the new dinosaur species discovered by **Stephen Brusatte** (Bristol '06; M.Sc. in Palaeobiology) after examining fossils from Africa

### 2

Times that **Douglas Melton** (Cambridge '75; Ph.D. in Molecular Biology) has appeared in *Time's* list of the "100 Most Influential People in the World" for his leadership in stem cell research

### At least 1...

Marshall scientist probably appearing in the credits of your favorite movie thanks to **Ray Dolby** (Cambridge '57; Ph.D. in Physics) and the audio technologies from Dolby Laboratories



# Baby Steps

By Aroop Mukharji (LSE and KCL '10)

Since finishing up their stints in the UK earlier this year, the 2010 batch of Marshall Scholars have mostly kept themselves busy. By my count, 12 are gainfully employed, 19 are pursuing further education, 2 are MIA, and 2 are happily contributing to the unemployment rate. The following is a small sample of our first steps as Marshall returnees.

## Carrie Barnett (SOAS '10)



Barnett finished up her M.Sc. in Middle East Politics at SOAS while starting her new position as a research fellow in the Middle East Program at the Center for Strategic and International Studies (CSIS), a think tank in Washington, DC.

Aside from being a good way to integrate back into the policy scene in Washington, working at CSIS has given Barnett the opportunity to continue to focus on the ongoing political transitions in the Middle East. Collaboration with her boss, Dr. Jon Alterman, has expanded her expertise to US relations with the Gulf, and Carrie hopes to make her first excursion to Saudi Arabia sometime early next year.

The highlight of her brief time at CSIS so far has most certainly been Friday, October 12, when the Secretary of State gave a widely commented-upon keynote address at a conference Barnett's program organized on the political transitions in North Africa.

While she is still making decisions about what she hopes to do in the long run — a Ph.D., government service, or something else entirely — Barnett feels

lucky to have landed somewhere she can continue to learn and grow while exploring her options and getting used to being back in the United States after 3 years abroad.

## Michael Wilkerson (Oxford '10)



Never one for placid quiet, Wilkerson's Marshall studies ended with a bang. The day before leaving the UK, he received the Vice-Chancellor's civic award at Oxford (one of six University-wide) and had the opportunity to meet Burmese opposition leader Aung Sun Suu Kyi at the ceremony. He was blown away by her poise and optimism.

Wilkerson received the award for his work as a journalist, democracy activist, and social entrepreneur in Uganda. His business, Own Your Own Boda, ([www.oyob.com](http://www.oyob.com)) empowers motorcycle taxi (boda boda) drivers in Uganda by providing a path for drivers to own their own motorcycle in 18 months instead of renting with no end in sight. Ownership more than doubles income, and OYOB's clients have gone on to invest their savings in new houses, new businesses and better schools for their children.

After finishing at Oxford, Wilkerson attended the Unreasonable Institute, an intense 6-week incubator in Boulder, Colorado for for-profit social entrepreneurs. He spent the rest of the summer raising new investment

(he's still looking!) and moved back to Uganda full-time in late October to expand the business. He invites all Marshall community members to come visit. He promises free boda boda rides, and great rafting on the Nile.

## Jess Lanney (LSE '10)

Lanney spent her last month as a Marshall Scholar in London cheering wildly for Team USA and Team GB during the Olympics and — when not at Wembley, Horse Guards Parade or Stratford — writing her second dissertation. Lanney is an affordable housing specialist who spent her time on the Marshall studying social policy and urban and regional planning at LSE. Her most recent dissertation focused on the inclusion of affordable housing in transit-oriented development in the US, using a planned light-rail extension in the Boston area as a case study.

Only a few days after flying back from London and completing her dissertation, Lanney started a job at the Boston-based Bridgespan Group, a non-profit organization that provides advising and resources to the social sector. As an associate consultant, she works with the leaders of mission-driven organizations to address the strategic, managerial and organizational questions they face. Her projects so far have focused on improving the services of large youth development organizations and enhancing philanthropic effectiveness. Lanney is excited to have the opportunity to serve some of America's most important and impactful non-profit organizations and to transition from learning about societal change to actively changing society. One of Lanney's chief goals is to promote Bridgespan's efforts in affordable housing and community development.



Although she longs for the London underground, Lanney commutes using the same train line upon which her dissertation focused. She also runs road races and is starting a Boston chapter of the Architects of Victory, the 2011-2012 London Marshall Scholars' three-peat championship dodgeball team.

## Andrew Ehrich (LSE '10)



This period of inevitable London withdrawal has seen Ehrich start a job with Palantir Technologies, a California-based company that helps organizations public and private to make sense of all the data that they have at their disposal.

In its eight years of existence, Palantir's software has helped solve some big problems—from aiding the US military detect land mines in Afghanistan to helping financial institutions root out credit card fraud.

Ehrich is on a team working on internal operations, helping the company grow so it can attack even bigger challenges. Although Palantir is based in Palo Alto, Ehrich is working from the New York office—and very much hoping that he'll get a chance to visit the recently-opened London office in the near future.

In his spare time, he's been busy regaling all of his friends with stories of London 2012 and celebrating the

wedding of one of his Marshall cohort in Florida (Steve Robinette Imperial '10, see photo on the back cover). Ehrich misses London's parks, pubs, tube, and greenery, and Tottenham Hotspur — fantastic memories from a bittersweet end to two years in the UK.

## Bill Dougherty (Royal College of Music '10)

Following two years at the Royal College of Music in London, where he earned his Master's degree in music composition, Dougherty has been working as a freelance composer, writing works for a number of ensembles and soloists around the world. Currently he is focusing on a violin concerto commissioned by the Aldworth Philharmonic Orchestra in Reading, England as part of their 2012 Young Composer's Award.

Dougherty has a number of upcoming concerts in London including the world premier of his work, *Hard Bop* by one of London's most renowned new music ensembles Lontano — one founded by Cuban-American composer, conductor, and fellow Marshall Scholar, Odaline de la Martinez (Royal Academy of Music '72). In addition to composing, Dougherty is pursuing further postgraduate studies at the Basel Musik Akademie in Switzerland where he is working under the guidance of the leading Austrian composer, Georg Friedrich Haas. While in Switzerland Dougherty is also carrying out research on the underperformed yet revolutionary Romanian composer, Horatiu Radulescu, working to create the first definitive database of his radical performance techniques while arranging a concert and symposium on his works in Basel.

After returning to the US in a year, Dougherty plans to pursue doctoral studies in music composition while continuing to seek out performances both in Europe and at home. He aspires to teach music at the university level, continue his research into the works of Horatiu Radulescu, and like fellow Marshall Scholar, Odaline de la Martinez, found a new music ensemble which promotes the performance of living composers.



# Giving Back

## The Class of 2011 Service Project



By Jing Luo (LSE '11) and Ariel Eckblad (Oxford '11)

**In this first installment of a two part series, 2011 scholars Jing Luo and Ariel Eckblad introduce the class of 2011's service project in partnership with the Castlehaven Community Association. A future issue of the Marshall Alumni Newsletter will follow-up with a perspective on the project's impact in the communities it seeks to serve.**

Apparently, a lot can happen over pancakes. Representatives from the class of 2011 first met over a homemade brunch of scrambled eggs, bacon, and fork-breaking pancakes to brainstorm. Initially, we had difficulty identifying a project, as we each had diverse strengths and varied experiences. Nonetheless, we left that morning with some rough criteria, potential contacts, and eager spirits. All of which eventually evolved into our 2011 service project. While scholars have, no doubt, engaged in service since the inception of the Marshall scholarship, 2001 marked the birth of the annual class project. Class projects, as the name suggests, are collective efforts which typically focus on local UK communities. However, there are projects with broader ambitions that endeavor to engage in overseas development activity and UK-US cultural understanding. Past projects have included – “Marshall Scholars for the Kigali Public Library” (Class of 2002), “The Millat School Development Fund” (Class of 2004), and “Americans for Informed Democracy” (Class of 2001).

As a cohort of scholars, we wanted to give back to the community, in which we were becoming increasingly invested. We wanted to best utilize the unique

and varied skill set of each scholar. We wanted to establish a long-term project that would allow scholars to interact consistently with a group of individuals and build lasting ties. And perhaps most importantly, we wanted to foster the “continuation and growth” of cultural “understanding” as charged by General George C. Marshall in his 1954 letter to the first class of Marshall Scholars.

After a series of late night discussions and pub debates we found a project for our class that incorporated all of these criteria – working with London’s underserved youth through the creation and presentation of after school educational modules. As academic scholars passionate about our respective fields, we knew that we could best use our talents by enhancing the education of others. After contacting what felt like countless organizations and jumping through innumerable bureaucratic hurdles, we identified a partner organization in the Castlehaven Community Association. We are proud to announce that the project is now underway. The Castlehaven Community Association is a community charity, associated with London’s Camden Borough that provides classes, activities, and facilities

for all ages. The 2011 Marshall cohort will be working specifically with their student population, ages 13-19. For the project, groups of scholars create a series of modules (each 60-90 minutes) with which to supplement standard public education. Each module has at least one interactive component, whether it is a hands-on science demonstration or a game/simulation to better illustrate the topics conveyed.

We would like to thank the AMS for its support, without which this project would not be possible. The Marshall Class of 2011 eagerly welcomes the participation of all current scholars and alumni in the UK. We hope, that given the positive feedback from the scholars, Castlehaven staff, and students, the project will continue into future years and with future classes of scholars. No doubt George C. Marshall would be proud.

## **The current project modules and their Class of 2011 sponsors are:**

### ***Art and Science: Breathe***

*Sasha Engelmann (Oxford '11)*

Participants will explore the art exhibit *Breathe* by Dryden Goodwin (in collaboration with scientist Frank Kelly) as experienced in the urban space. Students will discuss the work with the artist (Goodwin) and curator (Alice Sharpe). The goal is to investigate the intersection of art and science, art and the city, and the notion of the invisible. Students will be invited to record their impressions of the work digitally.

### ***What's your carbon footprint?***

*Josie Chambers (Cambridge '11)*

This module will begin with a presentation on the causes and effects of climate change. Students will calculate how much carbon dioxide they add to the atmosphere every single year through their daily activities, and how many planets we would need if everyone in the world lived the same way. A discussion will follow about the inequality of resource use and distribution around the world, and how climate change may affect different areas of the world in varying ways. Students will develop possible solutions to problems caused by climate change through interactive discussions over a few case studies.

### ***When does 10 = two? How to think like a computer***

*Jessie Muir (Cambridge '11)*

We use computers every day: They let us send emails, look at pictures, buy things, perform calculations, and much more. At their most basic level, all of these tasks involve handling information stored in binary code. Through interactive demonstrations, this module will provide an introduction to binary numbers, exploring how computers are able to count, remember, and perform calculations using only ones and zeros.

### ***Make a necklace with your own DNA!***

*Nick Altemose (Oxford '11)*

Participants will learn about the structure and function of DNA, the blueprint of all living things, by isolating their own DNA from cheek swabs. Participants will then store their DNA in clear pendants that can be worn on a necklace, and they will also learn how to weave their necklaces into a double helix, the shape of DNA.

### ***You, your health, and you!***

*Shivani Jain (Cambridge '11) and GJ Melendez-Torres (Oxford '11)*

This module will discuss what “health” is, and why public health is important. Starting with the building blocks of keeping healthy — regular exercise, the importance of balanced nutrition, and hand washing — this discussion will also engage larger questions of structural and social determinants of health. Participants will have the opportunity to ask health-related questions and to brainstorm their own strategies, including community-based approaches, to improving health.

### ***When diseases attack: public health investigators on the loose!***

*Shivani Jain (Cambridge '11) and GJ Melendez-Torres (Oxford '11)*

If you have seen *28 Days Later* and *Outbreak*, then you have seen sensationalized versions of what happens when infectious diseases spread through the population. The moderators will give a brief introduction and then an opportunity to be part of the team that fights a fictional disease outbreak. Using a simulation-based approach, this activity will invite participants to split into teams that work together to contain the outbreak.

### ***Public Speaking: It is your space***

*Kenzie Bok (Cambridge '11) and Kristin Hall (LSE '11)*

This module will explore the art of public speaking and highlight the importance of intentional presence. This module will use interactive performance and creative writing to encourage young people to find their voice and use it without apologies. Using the recording studio at Castlehaven Community Centre, students will record their voice and broadcast it on local radio.

For more information on these projects or how you can help, please e-mail Ariel Eckblad (aeckblad@gmail.com) or Jing Luo (jluo2011@gmail.com).



## **DEREK KILMER (OXFORD '96) HEADING FOR CONGRESS**

1996 scholar Derek Kilmer will be sworn in this January to represent Washington’s 6th District seat in the U.S. House of Representatives. Kilmer, a Democrat, secured 58% of the vote in this November’s general election.

Kilmer first ran for public office in 2004, winning a seat in Washington State House of Representatives. He then quickly advanced onto the Washington State Senate in the 2006 election, where he will remain until his move to DC.

As a Marshall Scholar Kilmer completed a DPhil in Comparative Social Research at Oxford.



## 1955

### Robert Berdahl

Berdahl143@aol.com

**Tom Everhart** and his wife Doris attended the Kavli Prize ceremonies in Oslo, Norway in early September, and then spent a week visiting friends in the UK, London and Cambridge. He had a chance to tour the Newton Mathematical Institute Library and the new Kavli Institute building in Astronomy and Astrophysics at Cambridge, plus view an excellent display of artifacts from Chinese tombs at the Fitzwilliam Museum in Cambridge. In addition Tom and Doris witnessed the final day of the para-Olympics in London.

Tom also attended the National Academy of Engineering meeting in Washington, DC on September 30–October 1. There was a very good panel discussion on innovations in engineering education on October 1.

**Beverly Griffin**, currently at Imperial College London, has been working on Burkitt's Lymphoma in Malawi and is ready to share a DVD about her experiences there. It can be obtained by emailing Beverly at b.griffin@imperial.ac.uk

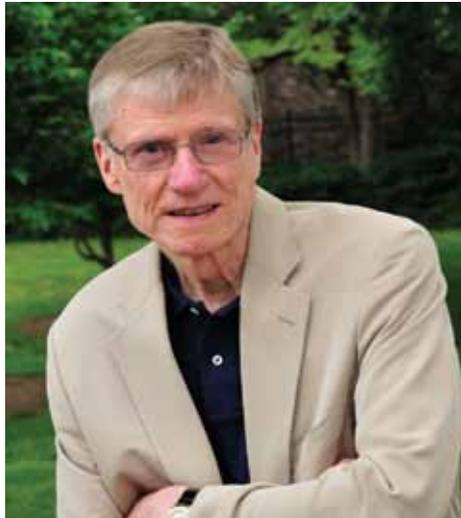
## 1962

### Pamela Perrott

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As a physics professor at the University of Delaware, **Tom Gaisser's** main research interest is particle astrophysics. For the past decade he has devoted most of his time to IceCube, an international collaboration to build and operate a neutrino "telescope" at the South Pole. The main goal is to find neutrinos from energetic sources in the universe such as accreting black holes or collapsing massive stars.

Neutrinos are not easy to detect. As John Updike wrote, "The Earth is just a silly ball to them, through which they simply pass." Fortunately, neutrinos do occasionally interact so that their energies and directions can be measured. In fact, IceCube uses the Earth as a filter to identify neutrinos as upward moving events in the huge background of cosmic



**TOM GAISSER**

ray events from the atmosphere above.

IceCube uses a large volume of clear ice as the target. The detector consists of 5160 optical modules viewing a cubic kilometer of ice more than a mile below the surface. Each optical module contains a photomultiplier to detect light produced when the neutrinos interact, as well as a computer to digitize the signals and a clock to time each event to an accuracy of 3 nanoseconds. Construction began with the first shipments of equipment in the Austral summer, November-February, 2003-04. After 7 construction seasons, the detector was finished at the end of 2010.



Tom took this photo in December 2008. It shows the two towers used to make the deep holes (by drilling with hot water under high pressure) and to deploy 2.5 km long cables, each with 60 optical modules attached. The more distant tower is deploying modules in a previously drilled hole, while the tower in the foreground is drilling the next hole. The South Pole Telescope (left)

and the Martin A. Pomerantz Observatory are visible on the horizon. IceCube is supported by the U.S. National Science Foundation, which operates the Amundsen-Scott South Pole Station.

IceCube is expected to operate for a decade or more. After the construction work, it is extremely satisfying to participate in using the excellent data stream from IceCube for science. There are already some significant results, and much more is expected.

## 1966

### Diana Coogle

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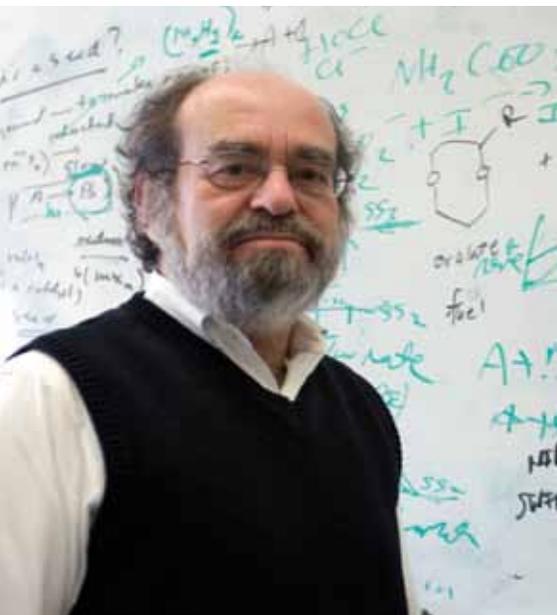
Developing ethical guidelines on stem cell research has been the focus of **Bernard Lo's** work over the past eight years. He strongly believes that our society needs more thoughtful and civil discussions of ethical issues raised by innovative scientific research. As an example, the Nobel Prize for Medicine in 2012 was awarded for reprogramming mature specialized cells, such as skin cells, to form stem cells that have the



**BERNARD LO**

potential to develop into all other types of cells. These induced pluripotent stem cells (iPSCs) can help scientists learn how diseases such as Alzheimer's disease and Parkinson's disease develop on a cellular and molecular level, develop new treatments, and test them in these laboratory models.

Although iPSCs avoid the ethical controversies surrounding embryonic stem cells, they raise other ethical dilemmas.



**IRVING EPSTEIN**

They can be used in many types of research, some of which are highly sensitive. Moreover, these sensitive issues may not have been addressed when donors consented to iPSC research. For example, some people who donate cells for unspecified “stem cell research,” a common practice, would object to reproductive research if had they been asked. He argues that consent for unspecified stem cell research should not include predictably controversial future research.

In his work, Bernard Lo has had the pleasure of collaborating with scientists carrying out cutting-edge research, public advocates, and policy makers. Earlier this year he retired from the University of California, where he had been a professor for over 30 years, to take on a new position as President of the Greenwall Foundation. The Foundation’s mission is to the next generation of leaders in the field of bioethics and to support bioethics research that will improve patient care, biomedical research, and public policy.

**Irving Epstein** left Oxford after one year — his kids call him “the Oxford dropout” — with a Diploma in Advanced Mathematics, returned to Harvard for a Ph.D. in Chemical Physics, and in 1971 took a postdoctoral fellowship at Cambridge (England). He has been a faculty

member at Brandeis University for the past 41 years.

He’s done the usual academic troika — teaching (mostly chemistry, but also “Monsters and Messiahs” on portrayals of scientists in film and drama), research (particularly in patterns, like chemical reactions that oscillate), and administration (department chair twice, two years dean of arts and sciences, seven years provost).

In addition to doing research he is senior advisor for research to the new provost, running the technology transfer office until the hire of a new director. Six years ago he started Science Posse, a program to recruit and retain students from disadvantaged backgrounds in sciences. Each year the program trains 10 high-school seniors from inner city New York in team-building, leadership, and academic skills, gives them a two-week, on-campus, summer “boot camp,” and, at Brandeis, provides them with grad student mentors and a variety of support services. Their success has been remarkable — 100% graduation rate, with 70% staying in the sciences, better than double the persistence rate of students of similar backgrounds who don’t go through Science Posse. President Obama lauded the program this year as one of the few that really work.

Thinking of retirement, Epstein foresees seeing his kids more, spending time at their home on Cape Cod, doing science, maybe writing a popular book, and playing more tennis (aging joints permitting) — though, he says, “nothing will ever compare with playing for Balliol on grass courts, taking a break between sets for a pint in the pavilion (and being 21).” He’d love to reconnect with any Marshall classmates who come through Boston.

**Linn Hobbes** is on the Board of the Association of Marshall Scholars now. He has chaired the Presidential Committee on Distinguished Fellowships at MIT for the last decade, recruiting future Marshall Scholars.

After graduating with a Ph.D. in English last June, **Diana Coogle** is teaching at the University of Oregon as a post-doctoral instructor, still making a weekly

commute to Eugene from her home in the mountains of Southern Oregon. She is loving the courses she is teaching: introduction to fiction fall term, 19th century British novels winter term, and argumentative and research writing winter and spring terms.

**1967 is looking for a Class Secretary. Email your interest in serving your class to [admin@marshallscholars.org](mailto:admin@marshallscholars.org).**

## 1969

**William Lee**  
leewill@yu.edu

See page 19 for a spotlight update from **Carla Jo Shatz**.

## 1976

**Carol Lee**  
cfldjs55@gmail.com

**Don Ringe**, who studied comparative philology at Oxford as a Marshall, returned to Oxford as a visiting scholar at Wolfson College in Trinity Term 2011. He writes that his kids enjoyed “the water birds and tadpoles in the punt harbor, occasional punting, the snails in the meadow behind the college, and bicycling all over Oxford and up to Summertown almost every day.” His daughter Emma is now 15 and daughter Lucy is now 9. His wife Beth keeps busy with oil painting, computer programming, and math tutoring. This year Don, a linguistics professor at the University of Pennsylvania, received the Ira Abrams Award for Distinguished Undergraduate Teaching, the highest teaching honor of the School of Arts and Sciences. He and a co-author have completed a new introductory book in historical linguistics, which attempts to reintegrate the study of language change into linguistics as a whole. It is expected to appear late in 2012 or early in 2013.

## 1978

**Bert Wells**  
bwells@cov.com

**Jeffrey T. Leeds** writes, “Following my time at New College, my academic and professional paths were, for a time, relatively straightforward, though huge-

## Carla Jo Shatz, 1969

I remember my Marshall years with great pleasure. I loved London theater and attended it the way some might follow their favorite sports teams. Trips with fellow Marshalls — skiing in Switzerland and visiting the Alhambra, for instance — were often inspiring despite our relatively meagre financial resources. At University College London I studied Physiology and learned about living systems — a change from my undergraduate major in physical chemistry. I took laboratory courses from Sir Bernard Katz and Paul Fatt and a reading tutorial with Semir Zeki; I did research on intracellular recordings from cerebral cortical neurons with Peter Kirkwood (in the laboratory of Tom Sears at Queen Square); and I learned to fabricate glass intracellular electrodes from Bert Sakmann and Bill Betz. Both Katz and Sakmann later went on to win Nobel Prizes. Just last year, I received a second major British honor: election to the Royal Society.

With my father an engineer and my mother a painter, I've always loved both art and science, but ever since my college years, I've stayed with neuroscience as my career. After the Marshall I studied with David Hubel and Torsten Wiesel and observed them performing the experiments that would win them the Nobel Prize in 1981, and ever since, I've found both the process of discovery and opportunities to work with first-rate scientists exciting.

It's both fun and satisfying when a hypothesis works out, but in some ways it's even more engaging when an experiment produces results that don't at first make sense. For instance, my colleagues and I discovered that the visual system starts wiring itself even before seeing is possible, as neurons produce electrical signals in the womb. Even more surprisingly, we discovered that in mice, forming the neural connections necessary for vision relies on molecules previously found only in the immune system. These chemical common denominators probably point to a shared stage of evolution

before the immune and nervous systems diverged. They have also been associated with diseases such as schizophrenia and bipolar disorder, a great example of how basic science can lay the groundwork for eventually understanding brain disorders and improving people's lives. I have found that science works best when it combines taking risks, carefully designed experiments, and openness to new concepts and connections.

Looking back over my career, I realize how often I served as a first generation pioneer for women in science. I was the first woman awarded a Ph.D. by the department of neurobiology at Harvard Medical School, the second woman appointed a Junior Fellow by the Harvard Society of Fellows, the first female scientist granted tenure at Stanford School of Medicine in a basic science department, the second woman to chair a basic science department at Harvard Medical School, and the first woman to chair its Department of Neurobiology.

One of my most ironic and amusing experiences was returning to Harvard Medical School as chair of the department of neurobiology. That very same department had debated whether to accept me as a student because the only other woman they had ever admitted had left prematurely, and they worried I might do the same. In the end I returned mostly because of the great honor but partly because of the sense of responsibility I felt as a role model for women. The irony was that I had become the "boss" of professors who had helped mentor me and were still contributing to the department. Moral of the story: be extra nice to your students just in case.

Based on my experience, I do have some advice for Marshall women pursuing careers. Back in the dark ages when I got my start, we weren't as sensitive to the biological clock as most professional women have since become, and I postponed having children until I

earned tenure. If you want to combine your career and having a family, don't wait that long.

While I am disappointed not to have a biological family, it is wonderful to have an extended scientific family of ex-students spread all over the world. In my various home institutions I have thoroughly enjoyed mentoring young scientists, many of whom now have tenure and run their own labs.

Currently I'm directing Bio-X, a Life Sciences and Biomedical research program that includes over 400 faculty members across Stanford University and promotes interactions between biologists and chemists, physicists, engineers, computer scientists, and clinicians. Every time I start to think about the next stage in life, something exciting happens in my lab or at Bio-X. Little did I imagine when I was a Marshall Scholar fresh out of college and studying in London all those years ago how my life would turn out.



ly satisfying. I went to Harvard Law School, after which I clerked for two federal judges, Judge James L. Oakes on the Second Circuit, and William J. Brennan, Jr., on the United States Supreme Court. I then joined the world of finance as an M&A banker at Lazard Frères — again, a somewhat conventional transition, but one that proved, happily, both challenging and enjoyable.

In 1993, with the hubris of late youth, I founded Leeds Equity Partners. Since 1995, the firm has focused on the business of making private equity investments in what we call, with some pomposity but, we hope, accuracy, “Knowledge Industries” — education, training and information. We believe that our focus on this poorly understood and dynamic industry provides extraordinary opportunities to drive superior returns for our investors and also to help transform the world though better and more accessible education and learning.

Most importantly, last March I married Elizabeth Sunderland Marshall (descended from Chief Justice John, rather than General George C. Marshall). At 56, my bachelorhood ended abruptly and joyously.”

**Rachel May (formerly Sue May)** writes, “I am happily settled in Syracuse, NY, with my husband, Tom Brockelman, and our 14-year-old daughter, Sophie. Tom is a philosophy professor at LeMoyne College and Sophie dreams of becoming an artist, creative writer, and filmmaker, but has no day job plans as yet!

I completed my first academic career as a Russian professor in 2001 after a short stint at SUNY Stony Brook and a longer and more satisfying one at Macalester College in St. Paul, MN. My current title is Coordinator of Sustainability Education at Syracuse University, a job that lets me work with faculty, students, and staff in a wide variety of capacities while also having an impact locally and regionally. The work ranges from serving on the Mayor’s transition team, to building rain gardens and consulting on the development of a Haude-nosaunee (Iroquois) cultural center.

Because my job is only half-time, I also have the luxury of being instrumental in local environmental and political groups. And since Syracuse is home to the marvelous Downtown Writers’ Center, I am even experimenting with becoming a playwright.

Though it is on few people’s lists of vacation destinations, Syracuse has a lot of charm and a fabulous location near lakes, mountains, vineyards, and historical treasures. We’d always welcome visitors!”

## 1982

### **Cameron Findlay**

Cameron.findlay@outlook.com

Greeting, fellow members of the matriculating class of 1982! Because it’s been 30 years since we last knew of each other as a group, I’ve supplemented the submissions with publicly available information on our classmates. I encourage others to send submissions for the next issue.

After getting his MSc in Math from Cambridge, **Dean Allemang** went on to get his Ph.D. in Computer Science from the Ohio State University. He is now a computer scientist specializing in “Semantic Web” technology, which is “a common framework that allows data to be shared and reused across application, enterprise, and community boundaries.” Dean writes, “In recent years, I have built up some expertise in a technology called the Semantic Web; my book *Semantic Web for the Working Ontologist* is the best-selling book in the field. While I do consulting in this area, my current emphasis is as Chief Technology Officer of Open Data Registry, a company whose mission is to track the ecological, social and health impacts of every product on earth. We’re starting with cotton, working with several major apparel brands to make cotton a more sustainable crop. This work has already taken me to parts of the world that I never thought I would visit as an information technologist. I am really enjoying the opportunity to apply my years of expertise in this technology to a mission that can have real impact on the world.”

**Andrew Bernoff** returned from Cambridge to teach in the Mathematics departments of Northwestern, Berkeley, Duke, the University of British Columbia, and finally Harvey Mudd, where he is currently Chair of the Mathematics Department. Andrew writes, “In my research I construct mathematical models of biological phenomena, such as the swarming of locusts. My husband and I are on sabbatical for the fall semester at the University of Minnesota, where we are remembering the crispness of autumn and the chill of winter after spending many years living in Southern California. I’m easily cyber-stalked at: <http://www.math.hmc.edu/~ajb>.”

**Elaine Hadley** left Oxford to obtain a Ph.D. at Johns Hopkins and has been teaching English at the University of Chicago since 1994. She’s currently the Chair of the Department of English there. Her last book, *Living Liberalism*, was awarded the Albion Prize from the North American Conference on British Studies. She is married and has two children of high school age, and thus reports that she uses her free time to escort her kids on college tours!

**Kimberly Marshall** “followed my academic/musical interests to teach at Stanford (1986-1993), to work as the Dean for Postgraduate Studies at the Royal Academy of Music in London (1993-6) and to teach and administer at the Arizona State University School of Music (1998-present). I married Adam Zweiback in 1993, and we have three sons: Jacob, a freshman at Princeton; Noah, an avid athlete; and Aaron, who recently told his parents that he didn’t need a college fund because he was going straight to Broadway. I have just stepped down as Director of the ASU School of Music in order to devote more time to my creative work and teaching. I present organ concerts around the world; in October 2012, I performed on the world’s oldest playable organ (in Sion, Switzerland), as well as one of the newest installations worldwide, the Acusticumorgel in Piteå, Sweden.” Her very impressive bio is at <https://webapp4.asu.edu/directory/person/194165>.

**Dobie McArthur** “returned to the Marine Corps from Oxford and alternated between posts as an artillery officer and a Foreign Area Officer specializing in the Middle East. In 1993, I transitioned into the Marine reserves and went to work full time as Military Legislative Assistant to Senator Richard Lugar and, from 1999-2001, as Legislative Director to Senator Arlen Specter. During this time, I remained in the reserves as an intelligence officer focused on the Middle East. I attended the Joint Military Intelligence College to obtain a second Master’s degree with a thesis focused on Iraq’s weapons of mass destruction programs. In June 2001, I retired from federal service and began a career in the defense industry, but the events of 9/11 pulled me back into government service, first as an Arabic linguist for the FBI from 2001 to 2003, and later as a political appointee serving in Iraq and at the Pentagon from 2004-2005. After leaving the Pentagon, I returned to the defense industry and currently serve as CEO of Nsite, LLC. My wife, Kathleen, and I have two sons, Daniel and James.”

**Wendy Olsen** “left England for India to do Ph.D. research and then did my Ph.D. at Oxford.” She’s currently Senior Lecturer in Socio-Economic Research at the University of Manchester in the UK, having “never made it back to the USA to live.” Wendy adds, “Living here I do community work, have a teenager, and enjoy orienteering. I am listed in LinkedIn, Facebook and at <http://www.manchester.ac.uk/research/wendy.olsen>. My Skype is wendyolseninmanchester.

After completing his M.Phil. at the City University, London, **John Stephens** returned to the U.S. to get his Ph.D. at George Mason University’s Institute for Conflict Analysis and Resolution. He writes that “I’ve been teaching at UNC-Chapel Hill since 1996, specializing in public dispute resolution and public participation for state and local government. I am very much a ‘pracademic’ doing applied research for public officials in North Carolina, which includes leadership training, complex policy facilitation and conflict resolution skills development. My website is [www.sog.unc.edu/user/140](http://www.sog.unc.edu/user/140). My wife, Renee Zimmerman, and I live in Durham. I enjoy Ultimate Frisbee, but now in a far more sedate form: [www.cs.unc.edu/~nyland/fhp-disc.html](http://www.cs.unc.edu/~nyland/fhp-disc.html). My primary community service is serving on the board of Eyes, Ears, Nose and Paws, a nonprofit which trains dogs for people with disabilities (mobility, diabetes, and other medical or behavioral needs). It is very challenging to help grow a young nonprofit that started at the depths of the Great Recession! See: [www.eenp.org/main/](http://www.eenp.org/main/). I occasionally get to see **Ted Tsomides** in Raleigh.”

As for your humble correspondent, **Cam Findlay**, I returned to the US to attend Harvard Law School, where I met my wife Amy Scalera Findlay. I clerked at the DC Circuit and Supreme Court in Washington, DC, and then went to work for the first President George Bush, ultimately landing in the West Wing in the Chief of Staff’s office. I practiced law in Chicago during the 1990s and then returned to DC in 2001 to serve as the Deputy Secretary of Labor in the Administration of President George W. Bush. After that, I’ve been general counsel of two very different Fortune 500 companies — Aon Corporation, the world’s largest insurance broker, and Medtronic, Inc., the world’s largest medical device company. Amy and I have two college-age boys, the older at my alma mater Northwestern, and the younger at Duke.

**1991**  
**Stanley Chang**  
[sschangca@yahoo.com](mailto:sschangca@yahoo.com)  
**Milada Anna Vachudova** is Associate Professor of Political Science at the University of North Carolina at Chapel Hill. She lives in Chapel Hill with her husband, Chad Bryant, and her two sons, Dominik and Lukas. Summers the family often spends a month or so in London near Richmond, with many visits to Kew Gardens and epic trips to the seaside. This year the family is based in Prague while Milada travels frequently to the Western Balkans and to West European capitals for research on her

forthcoming book on how political parties in democratizing states adapt their agendas in response to internal and external incentives.

## 1992

**Christy Lorgen**  
[christylorgen@gmail.com](mailto:christylorgen@gmail.com)

After Oxford, **Alec Dinwoodie** went to the Iowa Writers’ Workshop for an MFA in poetry. His subsequent work as a medical writer and editor in Chicago got him started in a totally unplanned career arc that now finds him a director at Genentech in San Francisco, helping to develop biotech medicines for cancer, Alzheimer’s, rheumatoid arthritis, etc.

## 1993

**Loren Siebert**  
[loren@siebert.org](mailto:loren@siebert.org)

**David Mengel** was appointed Associate Dean of the College of Arts and Sciences at Xavier University in Cincinnati, Ohio, where he is also Associate Professor of History.

**Graham Burnett** moved with his girls to W. 135th St in New York City. His new book, *The Sounding of the Whale* came out earlier this year. *Science* called it, “History of breathtaking depth...”

## 1996

**Caroline Lombardo**  
[caroline\\_lombardo@yahoo.com](mailto:caroline_lombardo@yahoo.com)

**Stephen DeBerry** just finished a two-week training expedition in the Chugach mountain range in Alaska. He plans to attempt a summit of Denali mountain (the highest peak in North America) next summer. He also recently closed a new social mission-focused investment fund that is managed by his firm, Bronze Investments in San Francisco, and continues to enjoy living just north of the Golden Gate Bridge with his wife and two daughters.

**Bruce Booth** and his wife Ania (who he met at Oxford) live in Wellesley MA with their three wonderful kids (Evelyn 8, Ashley 7, and Henry 5). They moved to the Boston area in 2005, after a few

## CLASS NOTES

years at McKinsey in NYC. Bruce is a partner at Atlas Venture, an early stage venture capital firm, where he focuses on biotech startups. Bruce welcomes fellow Marshalls to look him up if you're in the area (bruce@atlasventure.com).



**RICHARD JOHNSTON**

### 1999

#### Tad Heuer

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**Richard Johnston** recently started a three-year teaching position in the Department of English and Philosophy at West Point. Richard is wrapping up his dissertation on Romantic literature at Harvard and expects to receive his Ph.D. in March (see related photo, in which he is calling in an airstrike on his stubborn final chapter — and he confirms that yes, that's a camouflage Piggly Wiggly t-shirt.) If you're planning to escape the city this fall and enjoy the autumn foliage in the Hudson River Valley, please let Richard know. He would love to connect with old Marshall friends, show them around West Point, and even host them in beautiful Newburgh, NY.

**Tara Spires-Jones** has been promoted to Assistant Professor of Neurology at Massachusetts General Hospital and Harvard Medical School where she is researching neurodegeneration in Alzheimer's disease. She and her hus-

band also finally quit renting after 8 years in Boston, and have a home with backyard for their 2 adorable boys (5 and 2 years old).

### 2001

#### Megan Ceronsky

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**Tim and Jada (née Twedt) Strabbing** welcomed their daughter, Vivian Renée, into the world this past December. Vivian is a smiley and spirited extrovert, living up to her name in being full of life. She has brought much joy into Tim and Jada's lives, as well as relief, since Tim and Jada were keen not to fall behind the reproductive efforts of fellow 2001 Marshalls—now-married **Davesh Maulik** and **Katherine Dirks**. Katherine and Davesh got a head start in the parenting department in October 2011 with Kiran's birth. Rivalries aside, Marshall progeny Kiran and Vivian have made fast friends on summer playdates in Central Park (see photo evidence).

Tim and Jada have been living in the Upper West Side of Manhattan for a couple of years now. Jada is an assistant professor in the Philosophy Department at Fordham University. She teaches moral philosophy to both undergraduates and graduates, and her research focuses on the nature of moral responsibility. Tim feels that he contributes to Jada's research by offering ample relevant, real-world examples of a person who needs



**TARA SPIRES-JONES**



**TIM AND JADA STRABBING**

to be held accountable! The jury is still out on whether Vivian will prove helpful to Jada's research. In the near term, the biggest contribution Vivian could make would be in the area of sleep, which she clearly still considers optional.



**CENTRAL PARK PLAYDATE**

Tim recently transitioned from his work as a civilian at the Pentagon working on special operations and counterinsurgency issues in order to help establish a new foundation in New York City and then serve as its executive director. The foundation will be working in the spheres of education, national security, and faith-based initiatives—three areas in which Tim is enthusiastic to contribute.

If you find yourself in New York City, Tim and Jada would be thrilled to introduce you to Vivian, who will be excited to meet you and show off her expanding vocabulary of baby babble!

## 2002

### Esther Freeman

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A note from **Esther Freeman**: In honor of our ten-year anniversary of arriving in the UK, we have a flurry of updates. More details to follow in coming editions, but here are the 2002 ten-year anniversary class notes in brief (and yes, that means I had to take out all the fun details). It's been wonderful hearing from everyone! Keep the updates coming!

**Courtney and Ben Hood** have moved back from Turkey to Virginia, and have two little ones: Maisy and Lillian. **Wheaton Little** is living in Shanghai working with R&D at GlaxoSmithKline. **Jacob Sider Jost** is an Assistant professor in the English department at Dickinson College. **Brian Babcock-Lumish** is teaching at West Point in International Relations. **J.P. Ghobrial** is at Oxford, doing a lectureship in History at Balliol. **Ben Heineike** is a graduate student in Bioinformatics at UCSF. **Carrie (Theisen) White** lives in PA and recently welcomed son Lucius. **Anne McClain** and **Charles Trickey** are both at the US Naval Test Pilot School in Patuxent River, MD. **Matthew Frazier** is in DC, soon to be working at Dalberg Global Development Advisors. **Ken Wainwright** is in Jerusalem, and expects a son in November. **Daniel Immerwahr** is in Chicago, teaching at Northwestern University. **Lionel**

**Foster** is the newest (and youngest!) columnist at the Baltimore Sun. **Andy Ozment** works at the White House, in cybersecurity policy.

Post Oxford, **Jack Tannous** moved to New Jersey, where he did a Ph.D. in history at Princeton, finishing in the fall of 2010. From Princeton, he moved to Washington, DC, where he had a post-doc at a (truly magical) place called Dumbarton Oaks, which is part of Harvard. Jack was a researcher at Dumbarton Oaks, but as part of his post-doc, he taught at GW as well. After two years living in the District, Jack moved back to Princeton, taking up a job as an assistant professor in the History Department, where he is responsible for teaching late antique history. In 2011, Jack married Jeannette Rizk at the church of St John the Baptist in Cairo. Jeannette lives with him in Princeton, but travels regularly to Egypt, where she still works.

## 2005

### Vince Evans

vince.evans@gmail.com

**Mikush Schwam-Baird** and Vanessa Ulmer live in New York City. Mikush is starting the third year of his doctorate in political science at Columbia and Vanessa is a Project Manager at the New York State Energy Research and Development Authority. She finished her MPA at Princeton in June.



JEANNETTE AND JACK TANNOUS

**Nick Klingaman** lives in Reading, UK, where he is a Research Fellow with the National Centre for Atmospheric Science at the University of Reading. His work focuses on predicting tropical weather and climate; he recently concluded a three-year project with the Queensland Government (Australia). He married his longtime English girlfriend Emma in the summer of 2011. They are currently braving the laborious English house-buying system.

## 2006

### Daniel Weeks

dmweeks@gmail.com

**Julia Rafal-Baer** married Michael Baer on August 18th at the Castle on the Hudson in Tarrytown, NY. Marshall '06 classmates **Lauren Schuker** and **Sarah Stillman** were bridesmaids and **Ajit Divakaruni**, **Blake Brandes**, and **Jessica Hohman** were all present for the beautiful occasion. Blake, the '06 rapper-in-residence extraordinaire, performed an original piece at the rehearsal dinner.

Since getting married is clearly not enough excitement for our Julia, she and Michael took on new jobs and moved to Albany after the honeymoon. Julia is now Executive Director of Teacher and Leader Effectiveness, Policy and Programs for the NY State Education Department — a direct outgrowth of



(FROM LEFT) AJIT DIVAKARUNI, BLAKE BRANDES, JULIA RAFAL-BAER, LAUREN SCHUKER, SARAH STILLMAN AND JESSICA HOHMAN

## CLASS NOTES

her past two years as an NYSED Fellow, where she helped develop the strategy, design, and implementation plans for the State's \$700M winning Race to the Top grant and \$50M Teacher Incentive Fund grant. Now she's turning those plans, and more, into reality! She adds, "We couldn't be happier with our new lives," and invites any Marshalls who may find themselves in the Albany area to look her up.

### 2008

#### Katie Huston

katiehust@gmail.com

On 2 June, at the start of Jubilee Weekend, **Megan Murton (née Galbreth)** and John Murton tied the knot in their church, St. George's Beckenham in Kent. It was the culmination of a romance born at Oxford during Megan's



**JOHN AND MEGAN MURTON**

Marshall years at Magdalen College, where John was also a student and a singer in the chapel choir. The Murtons hosted a second reception for American guests on 7 July in Megan's hometown of Chattanooga, Tennessee. Now back in the UK, Megan is commuting to Cambridge from the couple's flat in Tooting, London, for the final year of her Ph.D. in English Literature. John works in London as a freelance singer and conductor.

### 2009

#### Emma Wu Dowd

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**Kelly Storrs** and her husband AJ welcomed their baby girl Adriana Mei Storrs on July 1, 2012. Both mother and baby are doing wonderfully. Kelly is currently working for the Marine Corps in Quantico, VA.



### Parting Shot

Members of the classes of 2009-11 gathered at the wedding of Steven Robinette (Imperial '10) and Lyra Mulhern.

**BACK ROW (L-R):** JEREMY SMITH (IMPERIAL '11), JEFF BERENS (FRIEND), JAKE FUENTES (FRIEND), CONOR CLARKE (BIRMINGHAM AND LSE '09), ANDREW EHRRICH ('10), JOHN CALHOUN (YORK AND OXFORD '10), BEN ZINTAK (CRANFIELD AND KCL '09)

**MIDDLE ROW (L-R):** ANNIE KALT (LSHTM '10), JESS LANNEY (LSE '10)

**FRONT ROW (L-R):** CARRIE BARNETT (SOAS '10), ALLISON DEUTSCH (FRIEND), LYRA MULHERN (BRIDE), STEVE ROBINETTE (IMPERIAL '10; GROOM), AUSTIN MCKINNEY (ISA AND LSE '10), SAM BJORK (CAMBRIDGE AND OXFORD '10), AROOP MUKHARJI (LSE AND KCL '10).

Contact Joan McCarthy with any questions about membership, updating your profile, or paying your dues

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