

# CHURCHILL NEWS

NEWSLETTER OF THE WINSTON CHURCHILL FOUNDATION

AUTUMN 2010

## IN MEMORIAM

Winston Spencer Churchill, grandson of Sir Winston Churchill and Trustee of the Winston Churchill Foundation, died last March in London. Educated at



Oxford, he was a journalist for *The Times of London*, *The Daily Telegraph*, and other newspapers. In 1968 he covered the infamous Democratic National Convention, where he was attacked by an incredulous Chicago police officer when he gave his name as Winston Churchill. A member of the House of Commons from 1970 to 1997, he founded the

Defense Association campaigning for greater support of Britain's armed forces and was a Trustee of the Winston Churchill Memorial Trust in the United Kingdom.

In March at the Foundation's gala dinner in Palm Beach, the Hon. Edwina Sandys, MBE, cousin of Winston and granddaughter of Sir Winston Churchill, paid tribute to her cousin:

*People often ask what it is like to live in the shadow of a great man. I like to say, "We didn't live in Grandpapa's shadow, we basked in his sunshine."*

*My cousin, Winston, loved Palm Beach. He and Luce made it their winter home, and many of their best friends are here tonight. We will miss him.*

*A couple of years ago, while driving with Winston in his new -- young man's -- top down -- sports car, he said, "You know, I don't think I've ever been happier in my life." And that for a man who lived life to the full, right up to the very end. From flying, to journalism, to skiing, to politics, to speaking, to tennis, to writing, and to flying again. Only two years ago he emailed :*

*"I just spent a wonderfully happy and most memorable day with my new friend, 86-year-old Tony Bryan, who flew spitfires over the Normandy beaches in the run-up to D-Day. Flying low, up and down, and upside down, over the intracoastal Palm Beaches in Tony's Super - Decathlon Aerobatic plane, we must have scared the daylight out of those lurching at the B and T"*

*The last time we spoke on the telephone, I asked Winston if he was reading or writing. He said he was doing both -- actually embarking on his autobiography.*

*When Richard and I saw Winston in London before Christmas, he asked me to give a message to all at the Churchill Foundation dinner. And this applies to all of us here: "Never, Never, Never Give In!"*

The Foundation will miss Winston Churchill's great spirit and support.

## CHURCHILL SCHOLARS 2010-2011

THE CHURCHILL FOUNDATION is proud to announce the fourteen new Churchill Scholars. From ten states, the Scholars come from one liberal arts college, four public universities, and nine private universities. Fully nine Scholars are in programs at the Centre for Mathematics: four in Pure Mathematics, four in Applied Mathematics and Theoretical Physics, and one in Computational Biology.

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MARTIN BLOOD-FORSYTHE graduated first in his class *summa cum laude* with High Honors in Physics from Haverford College, where he is the second Churchill Scholar. At graduation he was the recipient of the Luis B. Green Prize in Physics. From Putney, Vermont, he is doing a Master of Philosophy in Physics with an emphasis on the dynamic structure of materials in solar cells in the laboratory of Dr. Jacqui Cole (he is the third recent Churchill Scholar in Dr. Cole's lab). A Goldwater Scholar, Martin was elected to Phi Beta Kappa as a junior and received numerous merit scholarships and awards. He did a National Science Foundation Research



Experience for Undergraduates (NSF REU) at Cornell University in the Center for Materials Research in the Department of Chemistry and Chemical Biology, has done extensive research in physics at Haverford, and has collaborated with a professor of physics at Princeton. His letters of recommendation speak of him

as "a voraciously curious, intellectually powerful, and driven student" and as "staggering" in the range of his research. Martin was president of the Quaker student group and led training sessions for new students on Haverford's Honor Code. He has a strong interest in classical and folk choral music and folk dance traditions: he sang in the College Chorale and was assistant musical director of an a cappella group, and he plays folk fiddle and classical violin and performs contra dance. After Cambridge, Martin will do his PhD in Physics in the United States.

GEORGE BOXER received his Bachelor of Arts in Mathematics with Highest Honors from Princeton University, where he is the thirty-fifth Churchill Scholar. He is studying for the Master in Advanced Study in Pure Mathematics at Cambridge. From Stanford, California, he won the Shapiro Prize for Academic Excellence his sophomore year, the Andrew H. Brown Prize for outstanding work as a junior in mathematics, the George B. Wood Legacy Junior Prize awarded to a member of the senior class in recognition of exceptional academic achievement during his junior year, and the George B Covington Prize for Excellence in Mathematics. George received honorable mention in the Putnam Mathematical Competition and a Silver Medal in the International Olympiads of Informatics and participated

in the highly prestigious NSF REU in number theory at the University of Wisconsin. Boxer's general research interests in mathematics lie in number theory



and algebraic geometry -- more specifically automorphic forms, Galois representations, and arithmetic algebraic geometry. As a high school student, George took courses in mathematics at Stanford.

Throughout his college career and summers he has been involved in independent studies and research projects in mathematics and systems biology. One member of the Princeton Churchill review committee called George's range in mathematics "amazing," and his letters of recommendation speak of him as "a deep thinker" and as "already a deep mathematician who is building important theories." He has published two first-author papers in the *Proceedings of the American Mathematical Society* and was co-author of a paper published in the *Journal of Chemical Physics*. His presentation at the Ohio State Young Mathematicians Conference won first prize. His hobbies include robotics, board games, and puzzles; he has served as a tutor for Princeton freshman. After his year in the Part III program in Pure Mathematics, George plans to do his doctorate in Theoretical Mathematics at Harvard on an NSF Graduate Fellowship.

MARIA DROUT graduated with Highest Distinction and with Honors in Physics and Astronomy from the University of Iowa, where she is the second Churchill Scholar. She won the Ernest R. Johnson Memorial Prize for graduating with the highest academic standing in College of Letters, Arts, and Sciences, the James A. Van Allen Award given to a senior for outstanding work in physics or astronomy, and her department's Distinguished Service Award. From Eau Claire, Wisconsin, Maria is studying for the Master of Advanced Study in Applied Mathematics and Theoretical Physics. The co-author of three

papers, she was a Goldwater Scholar and was elected to Phi Beta Kappa as a junior. She has won numerous merit scholarships for excellence in undergraduate research, for being the top woman in science or mathematics, for being the top junior physics major, and the top



first-year honors student, among many others and was on the University of Iowa's President's List for her outstanding GPA. Maria's extensive research portfolio includes an examination of a potential site of star formation in the Galactic Center, an NSF REU at the Harvard-Smithsonian Center for Astrophysics on supernova explosions and gamma ray bursts, and another NSF REU at the Lowell Observatory in Flagstaff, Arizona, (a census of Yellow Super Giants with a stint on one of the telescopes in Chile), among other projects. Her letters of recommendation speak of her as "one to watch," "standing out even in a very elite group," and "possibly the best student encountered in twenty-five years of astronomical research." Maria is a backpacker, a runner, a scuba diver, a swing dancer, and a rock climber, and she has been deeply involved in community service and science outreach activities. After Cambridge, she will do her PhD in Astrophysics at Harvard University on an NSF Graduate Fellowship.

ZHOU FAN received a Bachelor of Arts *summa cum laude* in Mathematics and a Master of Science in Computer Science from Harvard University, where he is the thirty-second Churchill Scholar. He is studying for the Master in Advanced Study in Pure Mathematics at Cambridge. From Parsippany, New Jersey, he was named a Siebel Scholar by the Siebel Foundation, which recognizes the most talented students in the world's leading graduate schools of business, computer science, and bioengineering with a \$35,000 award. Zhou twice won the SIAM Prize of the Mathematical Contest in Modeling (from among more than 1,600 teams) and twice won an Honorable Mention in the Putnam Mathematics Competition.

His research portfolio is extensive and includes an NSF REU on Ergodic Theory at Williams College, an internship at Microsoft Research Asia in Beijing, and study of complex network models at MIT. He is the co-author of two papers with his roommate and fellow Churchill Scholar Yi Sun (see below). His letters of recommendation speak of him as a national "star," as "very quick and a tireless hard worker," and as "absolutely outstanding." Zhou sang in the Harvard University Choir, plays classical piano, taught English as a Second Language in Boston's Chinatown, has organized student exchanges with China, Korean, and Singapore for the Harvard College in Asia Program, and has served as the China Commu-



nications Manager for the Harvard College Association for U.S.-China Relations. After his year at Cambridge, Zhou plan to do his doctorate in Statistics at Stanford University.

SIMON GORDONOV received a Bachelor of Science with Highest Honors in Biomedical Engineering and Biological Sciences at Rutgers University, where he is the second Churchill Scholar. He won the Rutgers Alumni Association Award as the Outstanding Engineering Scholar and his department's John Michelis Award for excellence in Biomedical Engineering. Simon is doing the Master of Philosophy in Computational Biology with research at the Cambridge Cancer Research Institute. At Rutgers he maintained a perfect Grade Point Average and was a Division I Varsity Cross Country and Track and Field star. The co-author of three papers, he was a Goldwater Scholar (one of the very few bioengineers to win this prestigious award) and



has won numerous awards, prizes, and scholarships. Simon's letters of recommendation speak of him as "exhibiting a rare combination of intelligence, commitment, and leadership" as "passionate" in his work, in his work ethic, and his service to others, and "filled with realistic optimism... in which change is possible

and good, despite unexpected and difficult turns." Beyond his research and athletics, Simon founded and organized a university science outreach program, tutored high school students, and promoted public education on stem cell research. After Cambridge, he will do an MD-PhD in the United States.

SAMEER GUPTA graduated *summa cum laude* with a Bachelor of Arts in Anthropology from Yale University, where he is the eighteenth Churchill Scholar; he was the sole member of his class to be awarded his degree with Exceptional Distinction, a honor that requires special faculty approval and that recognizes extraordinary work demonstrating a breadth of scholarship and making a significant contribution to his field. At graduation he also received the Peter and Marion Schwartz Family Foundation Award for the most outstanding senior essay in biological anthropology and the Master's Cup for distinguished academic attainment. He is doing a Master of Philosophy in Translational Medicine and Therapeutics. From Macon, Georgia,

Sameer was elected to Phi Beta Kappa in his junior year and was a Goldwater Scholar. He was named a United States Presidential Scholar and a Coca-Cola National Scholar and won the National Young American Award of the Boy Scouts, the Yale College John C. Schroeder Award (for contributions to residential life), and the Yale College Hart Lyman Prize (awarded to a junior for the best record of accomplishment intellectually and socially). He is co-author of three publications and has a special interest in medical genomics. His broad research portfolio includes working at the Center for Disease Control, an internship at the Max Planck Institute for Evolutionary Anthropology in Leipzig, and several projects at the Yale School of Medicine. His letters of recommendation speak of him as having "unlimited potential," "as one of the brightest undergraduates encountered at Yale in over twenty years," and "of the obvious joy he gets from learning and tackling scientific problems." After Cambridge, Sameer plans to do an MD-PhD and hopes to work at the Center for Disease Control's Office of Public Health Genomics. He is the brother of Monique Gupta, a Churchill Scholar in 2004-05 who is studying at the Medical School of Washington University in St. Louis; Sameer and Monique are the first brother and sister Churchill Scholars.



DAVID KARP graduated with a Bachelor of Science in Mechanical and Aerospace Engineering *summa cum laude* from Princeton University where he is the thirty-sixth Churchill Scholar and where he was Valedictorian of his class. David received the Morgan W. McKenzie '93 Senior Thesis Prize, the Sau-Hai Lam \*58 Prize in Mechanical and Aerospace Engineering, the James Hayes-Edgar Palmer Prize in Engineering, and the Applied and Computational Mathematics Independent Project Prize. From Berwyn, Pennsylvania, he is doing a Master of Advanced Study in Applied Mathematics and Theoretical Physics. Elected to both Phi Beta Kappa and Tau Beta Pi, the Engineering Honor Society, in his junior year, David won the Shapiro Prize for Academic Excellence, the Class of 1939 Princeton Scholar Award (for the rising senior with the highest academic standing), the L.S. Skip Fletcher Scholarship from the American Institute of Aeronautics and Astronautics, and a NASA Aeronautics Scholarship.

He has three times been an Intern and Junior Engineer at Science Applications International Corporation (SAIC) and has worked at the NASA Ames Research Center. His letters of recommendation speak of him as "really blowing out the lights with his amazingly demanding course of study," "simply outstanding," "among the best of the best," and "among the top few among thousands of students over twenty-five years." An avid golfer and tennis player, David was a sports staff writer for *The Daily Princetonian* and admits to a recent infatuation with snow boarding. After his year at Cambridge he plans to do his doctorate in Aerospace Engineering at Stanford University with funding from the Hertz Foundation.



DANIEL LECOANET received his Bachelor of Science with Comprehensive Honors in Physics and a Bachelor of Science in Mathematics at the University of Wisconsin at Madison, where he is the third Churchill Scholar. He won the College of Letters and Science Dean's Prize and the Frank D. Cady Scholarship from the Department of Mathematics. From Madison, Wisconsin, he is studying for the Master of Advanced Study in Applied Mathematics and Theoretical Physics. He has won numerous scholarships and awards in Mathematics, Chemistry, and Physics. The first author of five papers and co-author of two others, Daniel was a Goldwater Scholar, did an NSF REU in Astrophysics at Cornell University, and had a Department of Energy National Undergraduate Fellowship for research in plasma physics at Princeton University. He has done research with six professors in four universities. He started taking courses at the University of Wisconsin while in high school and was already taking advanced undergraduate and graduate courses as a freshman.



His letters of recommendation speak of him as "the finest student in over twenty-eight years," as having "scientific maturity superior to that of many senior scientists," and as "the best and the most talented undergraduate student encountered." Daniel

worked for three years as a Physics Peer Mentor Tutor, where fellow undergraduates rated him at the highest level, and he developed a wiki for undergraduates about the University of Wisconsin. After Cambridge, Daniel plans to do his PhD in Theoretical Physics at the University of California at Berkeley. He won fellowships from the Hertz Foundation, the National Science Foundation, and Department of Energy Office of Science.

ANNA LIEB graduated *summa cum laude* with a double major in Applied Mathematics and Physics from the University of Colorado at Boulder, where she is the third Churchill Scholar; she was named the Outstanding Graduate of College of Engineering and Applied Science. From Golden, Colorado, she is studying for the Master of Advanced Study in Applied Mathematics and Theoretical Physics. The first author of one paper and co-author of two others, she was a Goldwater Scholar, won the INFORMS Award of the Mathematical Contest in Modeling (see above Zhou Fan for the same contest), and has received numerous merit scholarships at Colorado for academic achievement and community service. Her extensive research portfolio includes modeling HIV infections using differential equations, work in quantum chromodynamics, study of substrate inhibition in biochemical systems equations at Duke University, and she studied the effects of nitrogen deposition on alpine soil buffering capacity at the Institute of Arctic and Alpine Research (on a Howard Hughes Medical Institute Grant). Her letters of reference speak



of her as "sparkling with intelligence and creativity," as "spectacular," and as "having a wide-ranging ability, tremendous character, and tenacious commitment to excellence." Anna has worked on projects in Peru with Engineers Without Borders and directed the University of Colorado's Wilderness Study Group. An avid long distance runner --- Anna ran the Boston Marathon in three hours seven minutes --- and outdoorswoman, she hikes, backpacks, and camps. After Cambridge she plans to do a PhD in Physics.

STEPHEN LINDERMAN graduated from Cornell University *summa cum laude* with a Bachelor of

Science with Distinction in Research in Biological Engineering and with a minor in Biomedical Engineering. He is the nineteenth Churchill Scholar from Cornell. At graduation he was named a Merrill Presidential Scholar recognizing his outstanding scholastic achievement, strong leadership ability, and the potential for contributing to society, and he received the Academic Excellence Award from the College of Agriculture and Life Sciences for being the top student in Biological Engineering. Stephen is from Rome, New York, and last spring received from the Mayor the City of Rome Copper Medallion in proud recognition of being named a Churchill Scholar. He is doing the Master of Philosophy in

Translational Medicine and Therapeutics. A member of Tau Beta Pi and Alpha Epsilon, the Biological and Environmental Honor Society, Stephen was a Goldwater Scholar and a Cornell Presidential Research Scholar. He is co-author of two papers, most recently in *Protein Science*, and has been the lead presenter of several papers at major conferences. He had an NSF REU in Biomedical Engineering at Case Western Reserve University and has been working on the development of a novel genetic assay to allow the efficient engineering of novel antibodies in *E. coli*. Stephen's letters of recommendation speak of him as "outstanding in every regard," as "so much more than his amazing GPA," as "a responsible, likeable, and clearly outstanding star," and as "the type of student who raises the standard of a class by asking perceptive questions and produces complete and thorough analyses." Stephen sang in and served as Administrative Director of The Class Notes, Cornell's co-ed a cappella group. He was very active in community service and ran orientation programs for almost 4,000 students. He is 6'7" tall and does not play basketball. After Cambridge Stephen plans to do an MD-PhD in Biomedical Engineering in the United States.



MARIA MONKS received Bachelor of Science with a major in Mathematics, a minor in Physics, and a concentration in Music from the Massachusetts Institute of Technology, where she is the eleventh Churchill Scholar. From Hazleton, Pennsylvania, she is studying for the Master of Advanced Study in Pure Mathematics. The single or first author on five papers, Maria was awarded the Alice T. Schafer Prize

by the Association of Women in Mathematics as the most outstanding female undergraduate in Mathematics in the United States and was named runner-up for the Morgan Prize for best undergraduate research in the United States. A Goldwater Scholar, she has been exceptionally active in the Math Olympiads and, like fellow Churchill Scholar Yi Sun (see below), was named "Problem Czar" and also active in the Harvard-MIT Math Tournament. Maria's letters of recommendation speak of her as "amazing



by any standard," "at the level of a second-year post-doc," and as "an especially impressive researcher." Maria participated in the renowned NSF REU in number theory at the University of Minnesota at Duluth and was a mentor for Girl's Angle, a mathematics club for girls in the Boston area.

An avid runner, she has been on the MIT Varsity Cross-Country Team throughout college; she was named Most Valuable Player in 2006 and 2007. She sang in the Asymptotes, an MIT a cappella group, plays piano, and composes. After Cambridge Maria plans to do her doctorate in Theoretical Mathematics at Berkeley. She has won fellowships both from the National Science Foundation and the Hertz Foundation.

**KELSEY STOERZINGER** received Bachelor of Science *summa cum laude* with a major in Materials Sciences and Engineering from Northwestern University, where she is the seventh Churchill Scholar. From Inver Grove Heights, Minnesota, she has a special interest in nanostructures and is doing a Master of Philosophy in Physics, working in the laboratory of Dr. Andrew Jardine in the Surface Microstructure, and Fracture Group. She has won numerous scholarships and honors from Northwestern (including the C.V. Starr Endowed Scholarship), from the Society of Women Engineers, and from the ASM Materials Information Society. Her research includes internships at Dow Corning and General Motors and at Northwestern in plasmonic materials. Her letters of recommendation speak of her as "having gravitas" and at the same time as being "an absolute delight as a student," as having "exemplary problem-solving ability and proficiency with quantitative models of physical phenomena," and as "being on a steep, upward trajectory for becoming an extremely impressive scientist." She is a dancer, an oboist (first chair in the orchestra for non-majors), an avid

botanist, and a political activist; she reads political science and science fiction for pleasure. She is fluent in Spanish and has studied German. Kelsey was named to the Illinois Technology Foundation 50 for the Future and also named by Northwestern as one of seventeen "seniors to watch."



After her year at Cambridge, Kelsey will do her doctorate in Materials Science at MIT; she received fellowships from both the National Science Foundation and the Department of Energy Office of Science.

**YI SUN** received a Bachelor of Arts *magna cum laude* in Mathematics with a secondary field in Economics and a Master of Arts in Mathematics and Economics from Harvard University, where he is the thirty-third Churchill Scholar. He is studying for the Master in Advanced Study in Pure Mathematics at Cambridge. From San Jose, California, he was elected to Phi Beta Kappa in his junior year and won a John Harvard Scholarship and Harvard's Detur Prize for outstanding academic performance. Like his roommate and fellow Churchill Scholar Zhou Fan, Yi twice won the SIAM Prize of the Mathematical Contest in Modeling and an Honorable Mention in the Putnam Competition. He won a Herchel Smith Summer Undergraduate Research Fellowship for work on representation theory at MIT and participated in the renowned NSF Research Experience for Undergraduates in number theory at the University of Minnesota at Duluth. He has served as co-director



of the MIT-Harvard Mathematics Tournament for over 1,000 high school students and was one of the "Problem Czars." He was a regular member of the Harvard University College Bowl Team. His letters of recommendation speak of him as "an intellectual powerhouse" and as "one of the top mathematics undergraduates in the country"; more than one professor referred to the "beauty" of his work in mathematics. After his year at Cambridge Yi will return to the States to do his

doctorate in Theoretical Mathematics at MIT on an NSF Graduate Fellowship.

SWATI VARSHNEY received a Bachelor of Science with University and College Honors with a major in Chemistry with an option in Materials Chemistry and with a minor in Biomedical Engineering from Carnegie Mellon University, where she is the eighth Churchill Scholar. At From Burlington, Massachusetts, she is doing a Master of Philosophy in Micro and Nanotechnology Enterprise with a special interest in optoelectronics in the laboratory of Professor Henning Sirringhaus. The co-author of an article on new optoelectronic materials, she was a Goldwater Scholar and was elected to Phi Beta Kappa and to Phi Kappa Phi. She is an Andrew Carnegie Society Scholar, the University's highest undergraduate award, as well as the recipient of numerous other awards including 2010 Judith A. Resnik Award and the Lubrizol Foundation Award in Chemistry. Swati worked for two summers in the Polymer Therapeutics Division of Genzyme Corporation and has done research at CMU on a quasi-"living" polymerization for electroluminescence and on improved charge transport in transistors and solar cells. Her letters of recommendation speak of her as "killer smart all dressed up in a very bright and positive personality," "working at a level of performance unheard of in a research group," and as having "a dedication to the highest standards that inspires everyone around her." She was a member of the CMU Judicial Board, a Carnegie Mellon Highland Ambassador serving as liaison to high-profile guests, donors, and alumni, a counselor in orientation for first-year students, a member of the Chemistry Student Advisory Council on academic affairs, and a force in the Women's Leadership Institute among many other commitments. She has studied Arabic, Greek, Hindi, and Latin. After Cambridge, Swati plans to do a PhD in Materials Sciences at MIT.



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#### YET MORE NEW APPLICATION PROCEDURES

In an effort to simplify and clarify applying for the Churchill Scholarship, the Foundation has once again revised the online application: instead of typing directly into the application, applicants can now upload word processing files for the statement of

research, the personal statement, list of awards, work experience, etc. This innovation precludes the formatting problems caused by the use of different Web browsers. The instructions for the application have also been significantly revised to provide more advice on preparing a strong application, although it is made clear that there are no formulas to success. In an effort to go "green" and to cut costs, the Foundation will receive the applications as pdf files by email and distribute them to the Screening Committee on a UBS flash drive.

#### THE FOUNDATION'S WEB SITE

<http://www.winstonchurchillfoundation.org>

The Foundation's Web site remains a work in progress: it includes new statements from Churchill Scholars about their year in Cambridge; it has links to publications, including earlier Newsletters; and, most significant, it has a link for online donations.

#### CHURCHILL SCHOLAR NEWS

1965-1966

David Kershaw splits his time between quantitative investing and physics. He worked for Morgan Stanley doing quantitative proprietary trading and then ran his own proprietary trading business for a few years. Currently he is trying out some quantitative trading ideas and also exploring some physics ideas. He reports that he is having a great time with his three grandchildren. For recreation he takes ballet classes to keep in shape and also backpacks, skis, hikes, swims and kayaks. He has a strong interest in Sufism and Eastern Mysticism and recently spent five weeks in India traveling and visiting places connected with the Indian spiritual teacher Meher Baba.

1979-1980

Mitchio Okumura has been elected a fellow of the American Association for the Advancement of Science, is an editor of *Chemical Physics Letters*, and was appointed Executive Officer of the Department of Chemistry at Caltech. He is married and has two children.

1985-1986

Frank Doyle is currently the Associate Dean for Research in the College of Engineering at University of California at Santa Barbara and runs an active research program in the areas of biomedical control

and systems biology. He is also the Director of the Institute for Collaborative Biotechnologies, an Army-sponsored Research Center that includes UCSB, Caltech, and MIT. Outside of work, he devotes his time to sports activities, mainly on the soccer fields as a certified referee, with his wife Diana and their three children (Frankie - 11, Brianna - 13, and Sara - 15). He and his children enjoy racing sailboats, and he is gearing up for Transpac 2011, a race from Los Angeles to Hawaii aboard a Santa Cruz 52 sailboat.

Andrew Nobel is Professor at the University of North Carolina at Chapel Hill, with a primary appointment in the Department of Statistics and Operations Research and a secondary appointment in the Department of Biostatistics. His current research is a mix of theoretical and applied work, carried out in collaboration with students and colleagues. On the more applied side, he and his colleagues have been working on statistical problems involving genomics and genetics, while on the mathematical side, they have been working on some probabilistic and statistical questions related to machine learning and data mining. Andrew became a fellow of the Institute for Mathematical Statistics (IMS) in 2008.

Karen Oehler left her career in engineering to go to medical school at the UT Southwestern Medical Center, where she was the recipient of the 2010 William F. Ross, M.D., Scholarship Award in Family Medicine. Karen is married and has two sons, Andrew (14) and Kevin (11) Gatherer.

Colin Phoon has lived in Scarsdale, NY, since completing his medical training in pediatric cardiology at the University of California, San Francisco, in 1996. He lives with his wife Janet and their two children, Julia and Gordon. Following his days as Cambridge's Varsity lacrosse goalkeeper, Colin continues to follow college lacrosse avidly and plays for Chappaqua's adult summer league team. You might also find Colin on the airwaves or helping with the New York City Marathon as a ham radio operator (callsign AE3A). An Associate Professor of Pediatrics at NYU School of Medicine, Colin is actively engaged in patient care, teaching, and research. He is the Director of the Pediatric and Fetal Echocardiography Lab at NYU Langone Medical Center. His research lab studies heart function in various models of human disease, especially as the heart develops.

Elizabeth Simmons is the Dean of Lyman Briggs College, the undergraduate residential science college at Michigan State University, a position that

allows her to remain active in her research field of theoretical particle physics. She is very excited by the new data being produced by the Tevatron and LHC experiments. She and her husband Sekhar Chivukula (also a particle physicist) enjoy co-teaching a course on mathematical physics and collaborating with undergraduate students to create materials to help teach school children and K-12 teachers about atoms, light, gravity, and subatomic physics. Their older son, Ari, is now studying computer science at the University of Michigan and their younger son, Anand, is enjoying all the subjects of his 6th-grade year, from algebra to viola.

1987-1988

Sara and Glenn Ellison are both on sabbatical from MIT. Sara reports that their children are growing up at an alarming rate. Roger has written a math book for middle school students entitled, *Hard Math for Middle School: IMLEM Plus Edition*; the book was inspired by Glenn's coaching his daughters' middle school math team.

Robert Kennedy has been a member for the past three and a half years --- and for much of that time a leader --- of the group that runs Google's web search engine, but he is about to make a move to a different Google group, where he will be designing and building infrastructure software for managing clusters of computers. In February he married Linda Cicero, his sweetheart of eight years; Linda has been the University Photographer at Stanford since 1993, and Robert is very proud of the work she does there and as a freelancer. Despite their shared Stanford connection, they met through motorcycling. Robert has been playing music quite a bit, mostly jazz organ in a trio setting with saxophone and drums, learning a lot, and having a ball with it.

1988-1989

David Hinds is now Principal Scientist in Statistical Genetics at the personal genomics company 23andMe, Inc.

1990-1991

Leslie Phinney was named a Fellow of the American Society of Mechanical Engineers (ASME). The citation read: "Dr. Leslie Phinney has made significant contributions in research and development, leadership in the engineering profession, and education. She has advanced the understanding of thermal phenomena in microelectromechanical systems (MEMS), especially the effects of lasers on

microdevices, thermal characterization of polycrystalline silicon MEMS, and adhesion issues. Leslie's citizenship and service to the heat transfer, MEMS, and women in engineering communities include participation and organization at local, national, and international levels. She has instructed hundreds of students in Thermodynamics, Heat Transfer, and Microscale Thermophysics of Solids courses. She has actively supported mentoring and outreach programs and been recognized for her outstanding mentoring and advising." Leslie is currently a Senior Member of the Technical Staff at the Sandia National Laboratory.

Michael Seidman completed his MD/PhD at Harvard and began his residency at the Brigham and Women's Hospital in Boston in Pathology. He will be pursuing fellowship-level training in Cardiovascular Pathology starting in 2011 and, he hopes, in Molecular and Genetic Pathology in 2012. His research focuses on the diagnosis and prognosis of inflammatory illness. He and his wife Lisa just celebrated their fifth wedding anniversary.

1993-1994

Ariel Smits practices family medicine at the Gabriel Park Family Health Center in Portland, Oregon.

1994-1995

Vanessa Mitchell received her PhD in Geophysics from Stanford in September. Her thesis was on experimental design and data processing for imaging groundwater using geophysics. She is now on a one-year postdoc at Stanford and has started working with on a project to develop a value of information framework for evaluating geophysical data in making groundwater policy and management decisions.

Jonathan Murnick is finishing his medical training and is in the second and final year of a neuroradiology fellowship now at the Massachusetts General Hospital; he is currently searching for a staff position for next year.

1995-1996

Jennifer Hampton is in her fourth year teaching physics at Hope College in Holland, Michigan. After receiving her PhD from Cornell University in 2002, she did a postdoc at Penn State in the Chemistry Department, and then taught for two years at Washington & Jefferson College in Washington, Pennsylvania before moving to Hope. Jennifer

enjoys living in the community of Holland. She is slowly learning the responsibilities of homeownership and appreciates the fact that part of her family lives nearby in Grand Rapids. In her spare time, Jennifer enjoys reading and both listening to and making music, and she has recently taken up running (very slowly). She serves as a pastoral deacon at her church.

Jeff Marcus is an Associate Professor and Tier 2 Canada Research Chair in Phylogenomics at the University of Manitoba. He and his wife Joanne Seiff (along with dogs, Harry and Sally) moved to Winnipeg in 2009 where they are busy restoring their 1914 Arts and Crafts home. It gives Jeff lots of opportunities to participate in his latest hobby: plumbing. Churchill Scholar alumni crossing the Canadian prairies are invited to stop to visit with him and his wife Joanne provided that they come prepared with suggestions for innovative mosquito avoidance strategies.

After a few years of commuting to the University of Saarbrücken in Germany from Metz, France, Kira Weissman has been appointed a professor in the Molecular and Structural Enzymology at Henri Poincaré University in Nancy and now has only a forty-five minute commute from home.

Todd Squires is Associate Professor of Chemical Engineering at UC/Santa Barbara. He has won a variety of "young faculty awards" and was the advisor of Toby Mansuripur, one of last year's Churchill Scholars. He and his wife have two rambunctious children, ages 5 and 7.

1997-1998

Jakob Begun completed his residency in Internal Medicine and is currently a Fellow in gastroenterology at the Massachusetts General Hospital. He reports that he is now back in the lab doing basic science after five years of clinical training. His research interest is in the immunology of inflammatory bowel disease (Crohn's disease and ulcerative colitis).

Assistant Professor Michelle Povinelli was recognized by *Technology Review* as one of the world's top innovators under the age of 35 for her research on the optical properties of nano-structured materials. Povinelli, a member of the Department of Electrical Engineering at the University of Southern California, was selected from more than 300 nominees chosen by a panel of judges and the editorial staff of *Technology Review*, which is an MIT

publication. "Advances in nano-fabrication techniques make it possible to pattern materials on a scale smaller than the wavelength of light," Povinelli said. "I want to harness this capability to make nanophotonic devices for optical communications, solar energy and materials." Povinelli, who holds the Women in Science and Engineering Junior Gabilan Chair at USC, uses theory and computational simulations to investigate novel optical behavior and device functionality in such systems as photonic crystals, meta-materials and micro-resonators.

Robert Tupelo-Schneck and his wife Thea have a son, Henry Robert Tupelo-Schneck, born last January.

#### 2000-2001

Brad Friedman is a postdoc at Harvard University in the Department of Molecular and Cell Biology and is investigating the molecular mechanisms of neurodegenerative disease.

Jason Fuller serves as a Third Rock Ventures Principal, a position to which he was promoted after joining the company as Senior Associate in 2008. He focuses on new company formation and due diligence; he also actively involved in the support and management of various portfolio companies.

Aaron Levine is in his fourth year on the faculty of the School of Public Policy at Georgia Tech where his research continues to focus on the intersection of public policy and biomedical research. Much of his work focuses on stem cell policy, but he has also been writing on assisted reproductive technologies. He enjoys serving on Georgia Tech's Churchill Scholar selection committee.

Dan Wesley moved to New York City in June, got married in July, and started working for Morgan Stanley in November. His wife, Kristin Leight, is an attending psychiatrist at the New York-Presbyterian/Columbia hospital and is seeking certification as a psychoanalyst at the Columbia University Center for Psychoanalytic Training and Research; she graduated with highest honors from the University of North Carolina, received a master's degree in classics and English literature from Oxford, and later received a medical degree from Harvard.

#### 2002-2003

Emily Balskus is still a postdoctoral research fellow in Chemical Biology at Harvard Medical School and is currently interviewing for faculty positions in Chemistry. Emily and Andrew Haidle, who were

graduate students in Chemistry together at Harvard, were married in May in Cincinnati. Andrew is a medicinal chemist at Merck in Boston.

Camillia Smith Barnes is in her second year as Assistant Professor of Mathematical Sciences at Sweet Briar College in Virginia. She teaches precalculus, multivariable calculus, abstract algebra, introductory statistics, and introduction to mathematical proofs (not all in the same semester, of course!).

Loren Cerami teaches Physics at Newton Country Day School of the Sacred Heart, a girls' independent school outside of Boston. In 2009, she was appointed 11th Grade Dean. In that capacity, she is involved in the planning and execution of all activities that involve 11th graders. She also coaches the JV soccer team.

Vijay Sankaran received his PhD in Genetics from Harvard University in March of 2009 and his MD *magna cum laude* from Harvard Medical School in May of 2010. His doctorate was focused on the developmental regulation of the hemoglobin genes in human beings. He is now a Resident Physician in Pediatrics at the Children's Hospital of Boston and a Clinical Fellow in Pediatrics at the Harvard Medical School; he continues to do research as a Visiting Scientist at the Whitehead Institute for Biomedical Research and as a Visiting Scholar at the Broad Institute of MIT and Harvard. He admits to not getting much sleep.

#### 2003-2004

Ann Marie Cody was engaged to Tommy Ingulfsen, a fellow Churchillian last January. Ann Marie did her MPhil in Physics, while Tommy did the MPhil in Computer Text, Speech, and Internet Technology. They plan to marry at an as yet unspecified date in 2011. She has an article appearing in a December issue of the *Astrophysical Journal*, "Precision Photometric Monitoring of Very Low Mass Sigma Orionis Cluster Members: Variability and Rotation at a Few Myr." She monitored brightness changes in many young stars (a few Myr is a few million years old, young for astronomy!) over a two-week period. Based on these data she measured the rotation rates of low-mass stars and brown dwarfs, as well as identified some interesting erratic brightness changes that reflect the chaotic infall of gas and swirling protoplanetary dust disks around these objects.

Margaret Ebert received her PhD in Biology from MIT and has started a postdoc in the neurobiology

laboratory of Michael Greenberg at Harvard Medical School.

Nathan Gouwens finished his PhD in Neurobiology at Harvard Medical School; after a short postdoc in the same lab, he is now working at Clarion Healthcare, a small consulting firm in Boston. In September Nathan published a paper "Synchronization of firing in cortical fast-spiking interneurons at gamma frequencies: a phase-resetting analysis" based on his Cambridge research in *PLoS Computational Biology*.

2004-2005

Stephanie Bush received her PhD in Astronomy from Harvard and is moving to England for a postdoc in climatology at the University of Reading. She married Kate Johnson, whom she met in Cambridge while a Churchill Scholar and who is a doctoral candidate in veterinary epidemiology. Dani Bassett and her husband Lee attended the wedding.

Moira Gresham received her PhD in Physics from Caltech and has received a three-year postdoctoral fellowship with the Society of Fellows at the University of Michigan at Ann Arbor. The appointment involves a one-year teaching commitment (during which time she is counted as an Assistant Professor of Physics) but otherwise she will be doing research with the theoretical physics group and taking part in

activities of the Society like monthly dinner meetings and colloquia.

Po-Shen Loh has been an Assistant Professor of Mathematics at Carnegie Mellon University since January. He has become more active in the high school Mathematical Olympiad organization and is now the Deputy Head Coach of the United States delegation. Consequently, he is playing a nontrivial role in the fundraising efforts for that organization.

Iga Wegorzewska is finishing her PhD this year and her MD next year at Washington University in St. Louis with an NIH National Research Service Award and received a Burroughs Wellcome Trust to present her research at the meeting of the Peripheral Nerve Society in Sydney, Australia.

2005-2006

Noël Bakhtian is still at Stanford – and hopes to finish up in 2011; she is currently thinking about possibilities for post-PhD life. In the meantime, she thoroughly enjoys her research (she spends most of her time at the NASA Ames Center) and her time in the Bay Area. In November she attended Simulex at Tufts University as part of the EU/NATO team and was in Cape Canaveral for the Space Shuttle launch.

Chris Hayward continues his work at Harvard on



using radiative transfer to create synthetic images and spectra of simulated galaxies; the focus has been on understanding very distant, young galaxies that are heavily obscured by dust and that thus emit mainly in the infrared region of the electromagnetic spectrum. Since June, he has traveled on business to Sedona, Santa Cruz, Hawaii, Crete, Berkeley, Toledo, Tucson, Zurich, Heidelberg, and Paris!

Rita Kalra is doing her PhD in Physics at Harvard: she switched experiments earlier this year and is now working at CERN until mid-December on an experiment called ATRAP (a trap for antimatter). Rita notes that this is the same experiment that is featured in the movie *Angels and Demons*, where the Illuminati steal a tube of antimatter in an effort to blow up the Vatican; it turns out most of the physics in the movie is correct, except that the quantities of antimatter they make at CERN cannot even heat a cup of tea.

2006-2007

Kat Allen passed her oral examinations in Earth Sciences at Columbia last March and then seems to be perpetually on the road: after her exams, she immediately went to Puerto Rico for two months of field work (lots of scuba diving and playing with plankton), then to a paleoclimate summer school in Italy, then a student field trip to Iceland for two weeks in August, and finally a conference in San Diego, where she met recent Churchill Scholar René Boiteau. This fall she has been traveling for almost four out of the past six months and has a lot of writing and lab work to do. She has started on an NSF GK-12 fellowship, which involves teaching one day a week in a local school; she is paired up with a girls school in East Harlem and went with her marine biology class to an ecology camp in western Massachusetts.

Viviane Callier reports that in an unexpected twist of events, her mathematical modeling project is now on the back burner, and her side project about regulation of growth and molting in insects has become her dissertation project. The question is about why insect larvae molt and how they "know" when to molt, and it involves understanding insect hormones, respiratory physiology, effects of nutrition on growth -- all very complex and interesting. There is a mathematical modeling component to the project, but mostly lots of lab experiments with tobacco hornworm caterpillars (the organism of choice for many insect physiologists). So, she is becoming an insect developmental physiologist and

is working hard as a Teaching Assistant at Duke.

Timothy Howes is still working on his PhD in David Kingsley's laboratory at Stanford. His research involves using stickleback fish as a model system for vertebrate evolution, and he is trying to map the genes that controlling the development of particular skeletal structures (specifically, the small spines on the fish's back that are used for defense, a feature that have been lost by sticklebacks living in certain locations). The results will help in the understanding of how specific skeletal features evolve through specific DNA changes and appear likely to explain developmental pathways in other vertebrates.

Lena Koslover continues to do research in Biophysics at Stanford. She is working on several different projects that involve modeling genome structure and dynamics in the cell and has a number of collaborations going with different experimental groups at Stanford; she enjoys working with a variety of people on a variety of projects. She is also participating in an outreach project that involves developing science labs for children who are hospitalized for long periods of time and are unable to attend normal classes.

Clay Magill married Kristina Peterson, who is also a graduate student in Earth Sciences at Penn State, this past summer.

Liz O'Day is in her fourth year in Biological Chemistry at Harvard and hopes to finish her PhD this spring. Liz reports: "Things have been very busy, and I am really enjoying myself. It's funny how some things never change. When I was in Cambridge, the chemistry labs would close at midnight; I became such good friends with the custodians there that they would let me stay later and work throughout the night. Well, the same is happening here at Harvard. I practically live in the lab, but I absolutely love it." Liz is a joint student in two labs at the Harvard Medical School, Judy Lieberman (Immune Disease Institute) and Gerhard Wagner (Biological Chemistry and Molecular Pharmacology). Her thesis project involves understanding the structure and function of let-7 miRNA. She has two recent publications: O'Day, E. Lal, "A. MicroRNAs and their target gene networks in breast cancer." *Breast Cancer Res.* 2010;12(2):201. Epub 2010 Mar 19, and Lal A, Navarro F, Maher CA, Maliszewski LE, Yan N, O'Day E, Chowdhury D, Dykxhoorn DM, Tsai P, Hofmann O, Becker KG, Gorospe M, Hide W, Lieberman J. "miR-24 Inhibits cell proliferation by targeting E2F2, MYC, and other cell-cycle genes via binding to "seedless" 3'UTR

microRNA recognition elements." *Mol Cell*. 2009 Sep 11;35(5):610-25.

Liz keeps in quite close contact with her lab mates in Cambridge, and they have published two papers from their work there: Vuchelen A, O'Day E, De Genst E, Pardon E, Wyns L, Dumoulin M, Dobson CM, Christodoulou J, Hsu ST, and "(1)H, (13)C and (15)N assignments of a camelid nanobody directed against human alpha-synuclein." *Biomol NMR Assign*. 2009 Dec;3(2):231-3, and De Genst EJ, Williams T, Wellens J, O'Day EM, Waudby CA, Meehan S, Dumoulin M, Hsu ST, Cremades N, Verschueren KH, Pardon E, Wyns L, Steyaert J, Christodoulou J, Dobson CM. "Structure and properties of a complex of  $\alpha$ -synuclein and a single-domain camelid antibody." *J Mol Biol*. 2010 Sep 17;402(2):326-43.

Outside of lab Liz has been spreading the good word of science. The "Women in Science & Technology" (WST) program she started at Boston College celebrated its fifth year last year; WST brings high school girls to the BC campus to learn what it is to be a real scientist. In addition, she started a new program "Proyecto Chispa" (Project Spark), which seeks to recycle and refurbish old computers with educational games to be sent to children of the Nuestros Pequeños Hermanos orphanages in Latin America. So far the project has sent 40 computers to Haiti and almost a dozen to Mexico. And finally, she recently founded a company, Lizzard Fashion, an eco-friendly company that seeks to promote science through fashion ([www.lizzardfashion.com](http://www.lizzardfashion.com)). All of the clothing is eco-friendly and contains a hidden science message. Each Lizzard item comes with a description of its topic. Basically Liz hopes to change how people think about science and fashion. As a result she donates partial proceeds to support research funded by the American Cancer Society. The clothing is now available in the gift shops at the Boston Museum of Science

Emily Riehl spent several months in Sydney at Macquarie University last winter doing research in one of the leading centers in category theory.

2007-2008

Rosalind Beckwith and her dog Tennyson have taken a leave of absence from Stanford and have moved to Seattle. Rosalind is working as an Aerospace Engineer at Blue Origin and is doing three-to-four-month rotations in different areas throughout the company. She lives two blocks from Lake Union and has joined the Pocock Masters Rowing team, which is a great group of ladies.

Carl Erickson is working with Mark Kisin at Harvard and is doing research related to Galois deformation theory. He enjoys teaching a general education mathematics course on probability entitled "Fat Chance."

Dan Hickstein took a year off from his doctoral in studies in chemical physics to write a guidebook to mountain biking in Colorado, which is due to be published in Spring, 1911. He reports that it was a great adventure: lots of travelling around the state, writing, taking photos, and, of course, riding bikes. Back in the lab, Dan is working with a new instrument trying to measure what could be the shortest laser pulse ever created (less than 100 attoseconds). He and Andrew Higginbotham, Churchill Scholar 2009-2010, have recently collaborated on a paper, which might well be the first double Churchill Scholar paper.

Brandon Levin, like his Carl Erickson is also doing research related to Galois deformation theory.

Joanna Mattis writes that she is working in lab all the time and that her lab is amazing. She recently moved to San Francisco.

Bob Penna was first author of "Simulations of Magnetized Disks Around Black Holes: Effects of Black Hole Spin, Disk Thickness, and Magnetic Field Geometry," published online in arXiv.org > astro-ph > arXiv:1003.0966. He reports that the courses he took at Cambridge are serving him well. In fact, the general relativity he learned at DAMTP has been serving him so well that his adviser asked him to give lectures on it over the summer. He gave two lectures a week, each an hour and a half long (although they would spill over into discussion, sometimes lasting as much as another four hours). Most of the time he followed he notes from Cambridge, but sometimes he wrote his own lectures. He had very good students: his adviser, two graduate students, and a postdoc. He notes that Part III put him in a special position, because he is able to bring bringing material into a department of astronomy that is traditionally seen only in departments of physics and mathematics.

Brenda Rubenstein is working on quantum Monte Carlo technique, which she writes are the most promising set of technique for solving many particle quantum problems, but which are beset by a number of problems when the particles you are treating happen to be electrons (the most interesting of all "real" particles). She won First Place in Physics at the recent Los Alamos Research Symposium and the

Materials Computation Center (MCC) Travel Award for a Junior Investigator, which she used to present work in Switzerland. And she was married last year.

Emily Russell is engaged to Dale Winter (not a Churchillian, but rather at St. John's College) whom she met bell-ringing. Born and bred in Cambridge (although his mother is American, giving him a very useful dual citizenship), Dale he did his undergraduate and Part III course at Cambridge, an additional year of classes at MIT, and has started his PhD at Brown. Emily has enjoyed teaching at Harvard: a course called "Reality Physics" class last year was a general-education class for non-science majors; the goal of which was to cover physics topics that students will encounter in their everyday lives, such as what is the electricity that comes out of your wall socket, how does a laser work, and how does nuclear energy work; and another general-education class on the Science of Cooking, which is a soft matter class inspired by food, discussing topics like phase changes, heating, viscosity, and gels. The best part is, each week the class has a world-renowned chef as a guest lecturer.

2008-2009

Matt Biancalana published two first-author manuscripts, one invited review and one original research project: "Molecular mechanism of Thioflavin-T binding to amyloid fibril." (invited review). M Biancalana & S Koide (2010). *Biochimica et biophysica acta: Proteins and Proteomics*, 1804, 1405-1412; "Minimalist design of water-soluble cross-beta architecture." M Biancalana, K Makabe, A Koide and S Koide (2010). *Proceedings of the National Academy of Sciences*, 107, 8, 3469-3474. He also presented a research poster at the NIH-Cambridge/Oxford Colloquium in June.

Lisa Bond has had a first-author paper "Myosin VI and its binding partner optineurin are involved in secretory vesicle fusion at the plasma membrane" accepted in *Molecular Biology of the Cell*. She recently moved from Cambridge to Bethesda, MD, to continue her doctorate in the NIH-Cambridge Biomedical Scholars Program.

2009-2010

Krist Beck has begun the PhD program in Physics at MIT, where she has an NSF Graduate Research Fellowship and also a fellowship through IQISE (Interdisciplinary Quantum Information Science and Engineering, an IGERT program at MIT).

René Boiteau is in the joint MIT/Woods Hole doctoral

program in Chemical Oceanography and holds an NSF Graduate Research Fellowship.

Katie Deigan is an NIH Oxford Cambridge Scholar and is staying at Cambridge to do her doctorate in Chemistry.

Thomas Graham is in the first year of his PhD in Systems Biology at Harvard on an NSF Graduate Research Fellowship.

Andrew Higginbotham has begun his PhD in Physics at Harvard, where he holds a US Department of Energy Office of Science Graduate Fellowship.

Vikram Juneja is studying for the PhD in Medical Engineering and Medical Physics in the joint Harvard/MIT Program in Health Sciences and Technology, where he has both the National Defense Science and Engineering Fellowship ( NDSEG) and an NSF Graduate Research Fellowship.

Yoni Kahn has begun his PhD in Physics at MIT on an NSF Graduate Research Fellowship.

Hallie Kuhn is in the first year of her PhD in Systems Biology at Harvard, where she has been named a Theodore H. Ashford Fellow.

Jaelyn Lang is doing her PhD in Mathematics at UCLA, where she holds an NSF Graduate Research Fellowship and also the Cota Robles Fellowship.

Andy Manion has started in the PhD in Mathematics at Princeton, where he has both the National Defense Science and Engineering Fellowship ( NDSEG) and an NSF Graduate Research Fellowship.

Toby Mansuripur has begun his PhD in Physics at Harvard, where he holds an NSF Graduate Research Fellowship.

Aaron Potechin is doing his doctorate in Mathematics at MIT, where he holds an NSF Graduate Research Fellowship.

Courtney Schroeder has started her PhD in the Tetrad Program (Biochemistry and Molecular Biology, Cell Biology, Genetics and Developmental Biology) at UC/San Francisco, where she holds an NSF Graduate Research Fellowship.

Eszter Zavodszky is staying on at Cambridge to do her PhD Clinical Neurology at the Cambridge Institute for Medical Research with funding from the

Wellcome Trust.

It is not difficult to recognize the achievements of last year's class of Churchill Scholars, who have won an extraordinary number of prestigious fellowships for the doctoral studies in the top programs in the United States and Cambridge. This year the Boston/Cambridge area has the majority of Scholars, including all four physicists. Hallie Kuhn and Thomas Graham are two out of only fourteen first-year students in their program.

**PLEASE SEND NEWS!**

Please send news of your professional activities (books, articles, new appointments, presentations at conferences, etc.) and of your personal life.

Your fellow Churchill Scholars are very interested in reading about you

*ppatrikis@winstonchurchillfoundation.org*

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The Winson Churchill Foundation of the United States is a public charity and relies upon donations to support the remarkable young men and women who are awarded the Churchill Scholarship. The principal expense of the Foundation is the Churchill Scholarship Program: each Scholarship is now worth between \$44,000 and \$50,000 at the current exchange rate.

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The Foundation is grateful to those Churchill Scholars, Friends, and Trustees who have contributed to the Churchill Scholar Program. The Foundation is a charity and welcomes donations to keep the the Scholarship Program strong. At the current rate of exchange each Churchill Scholarship costs \$40,000-\$50,000.

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#### TWO NEW TRUSTEES

The Winston Churchill Foundation of the United States is delighted and honored to welcome two member of the Churchill family as new Trustees.

EMMA SOAMES is the granddaughter of Sir Winston Churchill and the daughter of The Lady Soames, who is Churchill's daughter and also a Trustee of the Foundation. She has had a long and distinguished career as a journalist: she has worked for the French edition of *Vogue*, the *Evening Standard*, *Vogue*, the *Literary Review*, and the *Tatler*. Emma was a long-serving editor of the *Saturday Telegraph Magazine* and is now Editor-at-Large of *Saga* magazine. She lives in London and in Provence and has one daughter Emily.



RANDOLPH L.S. CHURCHILL is the great grandson of Sir Winston Churchill and the son of the Foundation's late Trustee Winston Spencer Churchill. He is a char-



tered accountant and has been an investment director at Rathbone Investment Management since 2003. He has particular responsibility on the collectives committee for recommending fixed income investment funds. Before Rathbones, Randolph was at Schroders. Before joining Schroders in 2000 Randolph was director in charge of charities at Lazard Asset Management

running investments for a number of the larger UK charities. Previously, he worked in investment banking at NM Rothschild and Goldman Sachs in New York. He served five years in the Royal Navy after which he completed a BSc in Financial Management and Accountancy at the University of Buckingham. He lives with his wife, three daughters, and one son near Chartwell.

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