DEAR FRIENDS,

An undergraduate education at the Queen's School of Computing need not necessarily be interrupted in April, at the end of the academic year, and then resumed only in September with the return to classes. Indeed, for many of our students the spring/summer is one of the most exciting periods of their campus life. This is because every year the QSC upholds its fine tradition of engaging undergraduates in a wonderful adventure of research and exploration. From the beginning of May until the end of August they are trained by QSC mentors to do research at the highest level. Often, this endeavor results in conference presentations, journal publications, and even patents. The students find the experience informative and enriching, as well as helpful in planning their future careers.

In the spring/summer of 2011, we had 28 undergraduate students working in our labs under the supervision of internationally recognized scientists. They tackled projects that spanned the spectrum of our research enterprise, from theoretical computer science to biomedical computing, from data mining to computer game design, and from mathematical modeling to program verification.

Their contributions included:

• Designing surgical motion recognition tools in image-guided needle placement surgery
• Investigating the human factors of consistency maintenance in networked games
• Approximating complex formal languages in terms of regular languages
• Detecting financial fraud using textual and numeric data in company filings
• Building a mesh model of the bones of a knee joint from a CT image
• Implementing mesh manipulation algorithms to remove artifacts from 3D scans
• Developing a technique for symbolic execution of UML-RT state machines
• Enhancing software security and reliability for web browsers and internet applications
• Deriving fuzzy contact maps from binary contact maps for protein structure prediction
• Testing electro-magnetic sensitivity in humans, homeopathically and scientifically
• Analyzing data from a robotic device to assess sensory motor skills in stroke patients.

It is the sign of a vibrant and forward looking discipline to be inviting to young minds, and the Queen's School of Computing is leading the way. I trust that you are, as I am, proud of our budding new researchers.

Best wishes for a healthy and prosperous 2012.

Selim
Dear Alumni and Friends,

I cannot say how honoured I am to be able to address you as the new representative of the Computing Student’s Association. To be able to speak to those who helped turn the School of Computing into what I know it as today is an incredible privilege. So, without further ado, allow me to provide a quick update on the activities of COMPSA this year.

Orientation week was a resounding success on all fronts. We had one of the largest incoming classes that we have seen in years, a fact that is great for both our Association and our School. The Tech Committee welcomed the Class of 2015 in style, putting on a truly exceptional week, and I’m sure each and every student who took part would say the same. The amount of Computing community that is formed during this week never ceases to amaze me.

All of our traditional events are still running strong, such as the fall Semi-Formal, Coffee with Profs and the End of Year Banquet, with new additions such as the Secret Santa Pot Luck and regular movie nights giving us an extremely well rounded package of events to provide to our students.

Our range of conferences that our students frequently attend is ever expanding. Mainstays such as CUSEC, ONCWIC, and the CS Games remain present, as well as this year providing an exciting new opportunity in the Design our Tomorrow Conference, in which many Queen’s School of Computing students participated.

Continuing from the groundwork that was started last year, COMPSA is running an Alumni and Guest Speaker series throughout the year, in order for students to gain experience on a number of topics and fields. If you ever feel interested in sharing your experiences and your knowledge with the current students of Computing, drop me a line; we would love nothing more than to have alumni share their journey with our students.

The council we have this year is full of potential, and there is no telling what we may accomplish. For now, know that we are working hard to keep Computing as the community you all remember it to be from your time here.

Best regards,
Rob Staalduinen
Selim Akl speaks at TEDxQueensU 2011

Queen's School of Computing Director Selim Akl was a featured speaker at the second annual TEDxQueensU conference at Convocation Hall on November 6. The event was created “to showcase Queen’s creativity, ingenuity, and innovation.”

Dr. Akl presented a talk entitled “Computation is Universal... Computers are Not!”

THE GRADUATE COMPUTING SOCIETY (GCS) has been established to voice concerns and ideas of graduate students in the School of Computing - one of the largest, in numbers and in quality, graduate programs at Queen's University. In the academic year 2011-2012 we will keep our presence in formal and informal activities taking place in the School and beyond. GCS officers will be members of the committees in the School and will be well represented in SGPS (Society of Graduate and Professional Students). GCS will also continue to develop and maintain social and professional ties between graduate students and with all members of the School. The current GCS executive and officers will be very busy during this coming year.

The biggest of our initiatives is the 3rd Queen's Graduate Computing Society Conference (QGCSC 2012). This year we plan to have it in early May and we wish to keep the format of last year’s event, with one more informal afternoon followed by a whole day of presentations and lectures. The main goals of the conference are to showcase the research in the School in a friendly environment, to enable networking among School members (and beyond), and to spark new research collaborations. We hope that 2012 edition of the conference will make a step towards making our research work known inside and outside the School.

The GCS also wish to introduce the PhD Seminar series to present work of PhD students who are close to defending their theses. In this way we hope that we will all hear about the cutting-edge research done in the School. We also hope that and to make the School a fun and friendly place for everyone. To achieve that, GCS plans to maintain the social activities from the previous years: managing coffee breaks and organizing movie nights. Additionally we will add on other social activities such as bowling nights, paint ball, skating and so on. We hope it will be a lot of fun and every graduate student will find something attractive.

Check your emails – you will hear from us.

Karolina Zurowska (on behalf of the GCS)

GCS Council for 2011-2012 is Karolina Zurowska, Eric Rapos, Melissa Trezise - the GCS Executive; and Anton Barua, Salimur Choudhury, Sherin Abdel Hamid, Umme Hunny, Haroon Malik, Gehan Selim - the GCS Officers.

Karolina Zurowska was awarded the 2011 Ian Mcleod Graduate Student Award as the student who made the greatest contribution to the intellectual and social spirit of the Queen's School of Computing during the preceding academic year.
February 1, 2011 – Dr. Mousavi (left) has been named a recipient of the highly competitive Young Computer Science Researcher Award by the Canadian Association of Computer Science/Association d’Informatique Canadienne (CACS/AIC). This award, presented annually, recognizes excellence in Canadian research.

Dr. Mousavi was nominated by Dr. Janice Glasgow, Queen’s Research Chair in Biomedical Computing, who stated, “Her research has resulted in significant contributions in several areas of medical importance with great potential to improve cancer detection and surgical procedures.” Dr. Mousavi has also received provincial recognition of her research program through Ontario’s Early Researcher Award program.

Since her appointment to Queen’s in 2003, Dr. Mousavi has built an impressive research program, working on image processing with, as specific focus, its use in the diagnosis and management of human diseases. She uses innovative approaches to enhance our understanding of prostate cancer, directly benefitting the one-in-six Canadian men who suffer from this disease. She also works to formulate accurate models of the progression of multiple sclerosis. Worldwide, there are 2.5 million people diagnosed with multiple sclerosis, and 1000 new cases are predicted each year in Canada alone.
OUTSTANDING EARLY RESEARCHER RECOGNITION FOR DR. AHMED HASSAN FOR HIS CONTRIBUTIONS TO SOFTWARE ENGINEERING RESEARCH

By Natalie Wainwright

March 15, 2011 - Dr. Ahmed Hassan, recent recipient of the NSERC RIM Industrial Research Chair, has been named the recipient of the highly competitive Early Researcher Award by the Ontario Ministry of Research and Innovation. This award recognizes the best and brightest innovators and researchers early in their careers to enable them to build their research teams.

Through his research program, Decision Support for Software Development Activities Using Historical Project Data, Dr. Hassan is developing technologies to help Ontario’s software development industry improve the quality of their software products while avoiding cost overruns and missed deadlines. This will enable them to base decisions on solid information and help keep Ontario’s software sector competitive.

Committed to the training and mentoring of Canada’s next generation, Dr. Hassan’s research team includes 15 graduate students and two postdoctoral fellows. He also has been actively involved in the outreach program at Queen’s School of Computing.

The outreach program attracts high school students to the computing field by giving them a first-hand look at the power of technology. As the youngest NSERC Industrial Research Chair, Dr. Hassan has extensive industrial experience in software development at both Canadian and international corporations. Dr. Hassan is a world leading researcher and a pioneer in the area of Mining of Software Repositories.

July 21, 2011—Dr. Patrick Martin, Principal Investigator of the Delivering Ultra-large-scale Services research project, has received recognition for research excellence from the Ontario Research Fund. The Ontario Research Fund Research Excellence program promotes research excellence by supporting transformative, internationally significant research of strategic value to the province.

The multi-disciplinary research team includes 12 leading academic experts in software engineering, networking, security, autonomic computing, monitoring and databases from Queen’s University, the University of Waterloo, and the University of Western Ontario. They will work closely with six industry partners—the providers of some of the world’s largest and most complex ULS services—to ensure that they are tackling important and practical problems. The research will provide knowledge for companies across Ontario to make their products ULS-ready and to ensure that their customers can play a pivotal role in ULS service deployments. Dr. Martin’s long-term goal is to ensure Ontario’s leadership in the delivery of ULS services, an emerging area of computing that has a global impact.

Dr. Patrick Martin is Professor and Director of the Database Systems Laboratory. As an IBM Faculty Fellow and Visiting Scientist, he has maintained two decades of active engagement with IBM Canada’s Centre for Advanced Studies. His new database technologies have transferred to active industry use. As a CA Technologies Faculty Fellow, he works in ULSS web services. He is a recognized world expert in web services, data management for pervasive computing, autonomic computing, and database management systems.

#! The problem of transferring large files of digitized dinosaur bones was solved by a research team headed by School of Computing’s David Rappaport.

#! With adapted cycling equipment and virtual gaming research, Nick Graham’s Equis lab helps kids with cerebral palsy to socialize, exercise and play collaborative games from their own homes.

#! Congratulations to Queen’s Computing researchers Scott Grant, Douglas Martin, James R. Cordy and David Skillicorn, who received a best paper award at WSE 2011, the IEEE International Symposium on Web Systems Evolution.
March 15, 2011 – Queen’s University is pleased to announce Dr. Jim Cordy’s success in securing NSERC CREATE funding for a Graduate Specialization in Ultra-large Scale Software Systems (NSERC CREATE in ULSS). The NSERC CREATE program aims to support the teaching of collaborative and integrated approaches and to address significant scientific challenges associated with Canada’s research priorities. Dr. Cordy’s program will provide training for future software professionals on the unique challenges posed by ULSS systems.

Dr. Cordy’s long-term goal is to establish a sustainable Canadian collaborative research and educational solution for the unique challenges in the architecture and use of ULSS systems. To address the current and foreseeable demand in both industry and academia, the NSERC CREATE in ULSS will train postdoctoral fellows, graduate and undergraduate students in the specialized methods and advanced design concepts of ULSS.

As well, professional development skills and training transition streams relevant to ULSS will be integrated with a core graduate computer science education in ULSS. No such graduate program is currently offered anywhere in the world, despite the growing importance of ULSS and the increased demand for experts trained in the unique set of problems that ULSS poses. Because these systems process the financial, healthcare, and network connections data for millions of people worldwide, they must minimize or eliminate vulnerabilities to maintain the level of service demanded by Canada and the world. ULSS outages can bring whole economies to a halt. Dr. Cordy will lead a team of 10 investigators and 11 collaborators, including six industry collaborators.

Dr. Cordy is Professor, past Director of the Queen’s School of Computing and leader of the Queen’s Software Technology Laboratory. He was co-founder, vice-president, and chief research scientist at Legasys Corporation, a software technology company specializing in legacy software system analysis and renovation. The Corporation is the author of IBM’s Transformation 2000 analysis and conversion system. Dr. Cordy is a world leader in large scale software analysis and transformation systems, and the author or co-author of over 120 refereed research contributions in programming languages, software engineering, and artificial intelligence including several techniques that have been transferred to active industry use. Dr. Cordy is an ACM Distinguished Scientist, a senior member of the IEEE, an IBM Faculty Fellow, and a registered professional engineer. He was the 2008 recipient of the Queen’s University Award of Excellence in Graduate Supervision.

MICCAI 2011, the 14th International Conference on Medical Image Computing and Computer Assisted Intervention, was held in Toronto, Canada in September. MICCAI annually attracts world-leading scientists, engineers, and clinicians from a wide range of disciplines associated with medical imaging and computer assisted surgery. This year marked the largest gathering of the series with approximately 1,100 attendees.

Members of the Queen’s School of Computing played a pivotal role in this grand event:

- Gabor Fichtinger served as general and program co-chair.
- Randy Ellis and Purang Abolmaesumi served as workshop and tutorial program co-chairs.
- Parvin Mousavi and Purang Abolmaesumi served as Program Committee Members.
- James Stewart managed the scientific review system.
- Andras Lasso and Thomas Chen were the event photographers.
- Sacha Robinson managed the airport transportation and help desks.
- More than 15 other Queen’s students and postdocs assisted in running the five-day event flawlessly.

Pictured: Ehsan Dehghan (centre) was, for the second year in a row, a Finalist for the Best Young Scientist Award. He is pictured with his advisors Gabor Fichtinger (left) and Jerry Prince. (right)
Knowledge in the Cloud

Fifty attendees enjoyed a successful Knowledge in the Cloud Seminar and Symposium organized by Dr. Farhana Zulkernine which ran on Thursday, May 5, 2011.

While data and information are some of the key contributors in technology enhancement, the necessity of extracting useful knowledge from the data is becoming increasingly more important to make effective use of the large volume of data being collected from various resources.

The symposium focused on the importance and techniques of knowledge extraction and making the same available to a wide group of users and various application domains such as business intelligence, medical tools, systems management, and Web applications.

Attendees included groups from Queen’s Electrical and Computer Engineering, Statistics, The School of Medicine, and The School of Business, as well as The School of Computing Also attending were representatives from Electrical Engineering RMC, Innovation Park, and Canarie.

Speaking at the event:

**Dr. Bruce Spencer**  
Senior Research Officer  
National Research Council (NRC)  
Institute for Information Technology

**Dr. Renée J. Miller**  
Professor  
Department of Computer Science  
Bahen Center for Information Technology  
University of Toronto  
Toronto, ON, Canada

**Paul Buck** (Queen’s BA 1983, BSc 1984)  
Director  
Business Intelligence & Performance Management Development  
Business Analytics  
IBM Software Solutions Group  
Ottawa, ON, Canada

Organizers:

**MITACS (Mathematics of Information Technology and Complex Systems**  
**Dr. Farhana Zulkernine, MITACS Elevate Post Doctoral Fellow and Adjunct Assistant Professor, Queen’s School of Computing**
ONCWIC 2011 By Wendy Powley

On October 21/22nd, 2011, 36 women from the School of Computing attended the 2nd annual Ontario Celebration of Women in Computing which was held at the University of Toronto. School alumnus, Kelly Lyons, (PHD 1994), Associate Professor, Faculty of Information at University of Toronto co-organized and co-chaired ONCWIC 2011, along with her colleague Dr. Renee Miller, Professor of Computer Science and the Bell University Labs Chair of Information Systems at the University of Toronto.

The event was attended by 150 students (from 1st year to PHD), faculty, and representatives from industry. With 36 attendees, the women from Queen's comprised the largest group representing any single institution. Having organized the inaugural event, ONCWIC 2010, the Women in the School of Computing (WISC) group were eager and excited to attend this follow-up event.

The Friday evening social event was held at Second City where we were treated to dinner and a presentation entitled “Software Engineering for Superheros” by Cate Huston, a software engineer from Google. Next, our Jeopardy hostess, Kelly Lyons, put our brains to the test with a highly competitive game of Computer Science Jeopardy. I’m not sure which was more fun, the Jeopardy game or the Second City comedy act that followed – both were enjoyed by all.

We spent a restful night at the Yorkville Intercontinental Hotel (all included in the $40 registration fee!!) and headed to the Faculty Club bright and early Saturday morning for a full day of presentations. The program featured speakers from Google, RIM, RBC, IBM, the Ontario Center of Excellence (OCE), COACH – Canada’s Health Informatics Association, and the Canadian Coalition for Tomorrow’s ICT Skills (CCICT). Alumnus Amber Simpson (PHD 2010), Research Associate in the Biomedical Modeling Laboratory at Vanderbilt University, participated in the IBM "Day in the Life" panel and PHD Candidate Karolina Zurowska presented her research – “Symbolic Analysis of UML-RT Models”.

Although the talks were high caliber and full of information, the true magic of the conference was found in the networking and mentorship opportunities afforded by such a gathering. At ONCWIC 2011, networking was maximized by seating graduate students with undergraduate students and interspersing faculty and other professionals among the students. This worked particularly well for the break-out sessions where we were given a chance to share our experiences and ideas. Everyone met someone new.

The attendees would like to sincerely thank the Queen’s School of Computing and the individual researchers for their generous financial support that made this amazing opportunity possible.

If you would like more information about WISC, please visit http://www.cs.queensu.ca/wisc, or contact Wendy Powley at wendy@cs.queensu.ca.

Mervat Fahmy reports: I had the pleasure of participating in ONCWIC twice; once as a member of the organization committee for ONCWIC 2010 at Queen’s University, and another as an attendee at ONCWIC 2011. For me, the experience in both venues was both exhilarating and humbling. Exhilarating because it allowed me to be a part of a wonderful organization team. It provided me with the opportunity to witness a gathering of highly distinguished women in both the IT industry and the academic field, and it was a great venue to learn of the different experiences and perspectives women have in both workplaces. I was also humbled by the amount of effort that women invest in their personal and work lives in order to succeed on both fronts. The number-one lesson for me is that we, as women, should not underestimate our power, and the distinguished speakers whom I had the honor of listening to as they talked about their experiences are a testament to that power. Perhaps women should let go of the idea that they need to prove themselves in the workplace by being ruthless and focus more on embracing their compassionate side, which - in addition to doing the job right - is an advantage that can elevate their performance by adding passion and dedication to it. The best lesson I took home with me was that I CAN do it if I choose to put my mind to it! There is no such thing as "inability" to do, rather, what we may have is "non-desire". That can be fixed by finding your true passion and then immersing yourself in it, and only then you will do great things.
VIZUALIZE.ME:

INFOGRAPHIC RÉSUMÉS

By Rachel Tigner

Hannah Wei, a third year Bachelor of Computing student at Queen's, attended Startup Weekend Toronto in June, 2011, and created Vizualize.me, a website that creates an infographic résumé out of a LinkedIn profile. The product was so successful that Hannah quit her job and put her university degree on hold to develop the product full time.

Startup Weekend Toronto is a competition that allows people with business and technical backgrounds to come together, share ideas, learn about entrepreneurship, and experience launching a startup in just 54 hours. Hannah Wei, and her teammates, Eugene Woo and Kenneth Lee, created Vizualize.me at the competition this past June, and won first prize for the best product of the weekend. The product's initial reception was promising, with over 3000 people signing up in one day. It wasn't long after, with a lot of support from friends and mentors, that the three founders of Vizualize.me quit their day jobs and began the journey to making Vizualize.me a reality. Currently in its beta stage, Vizualize.me gives the user a couple of options for the layout design, and provides customizable colour schemes, fonts, and backgrounds to allow for a more personalized feel. There are graphics for each section of the résumé, including an experience timeline that allows you and your potential employers to see your work history and education, graphics to represent your skills and expertise levels, and a world map that features languages you can speak.

Vizualize.me creates an opportunity to see and fill in the gaps in your career path and create a stronger, more impressive résumé, which allows potential employers to easily visualize your work history and skills, and set you apart from other applicants.

Not all employers are receptive to visual résumés, but Hannah believes it will just take time to adapt to the new format and see its benefits. Since its inception, Vizualize.me has received a lot of positive feedback and media attention. Though many of her friends thought she was crazy for putting her school on hold, Hannah stands by her decision, saying it is the perfect fit for her. She is the creative director, and with a passion for design, Vizualize.me is the best of both worlds: being a software programmer and utilizing her design skills.

Luckily, Hannah found her calling and a great opportunity with Vizualize.me.

Good luck Hannah! Check out their website at Vizualize.me.

Hannah Wei
Co-founder & Creative Director @ Vizualize.me

I'm a 21 year old designer and developer living in Toronto. I like to build things with pixels and code.

EXPERIENCE
Third Annual School of Computing Awards

This is one of the most important events in the life of the School. It is an opportunity for us to recognize excellence in various forms of endeavor and an opportunity to celebrate the contributions of those of us who distinguished themselves through their exceptional work.

• COMPSA Howard Staveley Award for Teaching Excellence: Nick Graham; Runners-Up (and former recipients): Dorothea Blostein, Dave Dove
• Excellence in Teaching Assistance Award: Eric Rapos
• Ph.D. Research Achievement Award: Hossain Shahriar
• Outstanding Master’s Thesis Award: David Sears
• Graduate Student Distinguished Service Award: Andrew Dickinson (picted, with Selim Akl, Director)
• Distinguished Graduate Supervision Award: Ahmed Hassan; Runner-up (and former recipient): Jim Cordy
• Distinguished Service Award: Laurie Truman
• Award for Outstanding Contribution to School Life: Melissa Trezise

The Ian Lawson Van Toch Summer Research Scholarship by Debra Lawson

The more time passes, the less I feel I know about the world. There is so much research and development happening in brilliant institutions around the world, I can’t even imagine the possibilities, the inventions, the changes that lie before us. Sometimes, it can be overwhelming, but I believe that our continued desire for knowledge and the insight it brings gets us closer to understanding what we are truly capable of achieving.

On October 6th our family had the absolute pleasure of meeting the two Bio Medical students whose summer research was financially supported through the assistance provided to the Queen’s School of Computing upon the death of our son, Ian Lawson Van Toch. (CompSci ’07) How do I describe the happiness that resonated from meeting Charlotte Blinston and Thomas Vaughan, 4th year Biomedical Computing students and seeing the passion that these young scientists exhibited? Bittersweet yet connected. Connected to our son’s passion for BioMedical computing. Connected to the wonders of the broad range of the programme’s application areas.

First, Charlotte passionately described her involvement in the design, implementation, and evaluation of a Case-Based Reasoning (CBR) system for the diagnosis of impairment and for the planning or rehabilitation strategies for patients with stroke. And then Thomas so thoughtfully articulated his excitement of Mosaic arthroplasty - a surgical procedure to repair cartilage damage in a joint; and how he is participating in the development of computer-assisted methods of arthroscopic mosaic arthroplasty in humans.

We are very proud of them and honoured to have been - and continue to be - connected. And we thank Charlotte and Thomas for sharing their opportunities with us; for it is an opportunity to see how our son continues to share his passion, every day.

The School of Computing welcomes three new Adjunct Assistant Professors

• Manar Alalfi (right) -- Software Technology Lab
• Amal Zouaq (centre) -- Software Technology Lab
• Robert Benckozi -- (left) Telecommunications Research Lab and Parallel and Unconventional Computation Group

Above: Debra Lawson and Thomas Vaughan
Below: Charlotte Blinston and John Van Toch.
REVOLUTIONARY NEW PAPER COMPUTER SHOWS FLEXIBLE FUTURE FOR SMARTPHONES AND TABLETS

The world’s first interactive paper computer is set to revolutionize the world of interactive computing.

“This is the future. Everything is going to look and feel like this within five years,” says creator Roel Vertegaal, the director of Queen’s University Human Media Lab. “This computer looks, feels, and operates like a small sheet of interactive paper. You interact with it by bending it into a cell phone, flipping the corner to turn pages, or writing on it with a pen.”

The smartphone prototype, called PaperPhone, is best described as a flexible iPhone – it does everything a smartphone does, like store books, play music, or make phone calls. But its display consists of a 9.5 cm diagonal thin film flexible E Ink display. The flexible form of the display makes it much more portable than any current mobile computer: it will shape with your pocket.

Dr. Vertegaal unveiled his paper computer on May 10 at 2 pm at the Association of Computing Machinery’s CHI 2011 (Computer Human Interaction) conference in Vancouver — the premier international conference of Human-Computer Interaction. Being able to store and interact with documents on larger versions of these light, flexible computers means offices will no longer require paper or printers.

“The paperless office is here. Everything can be stored digitally and you can place these computers on top of each other just like a stack of paper, or throw them around the desk” says Dr. Vertegaal.

The invention heralds a new generation of computers that are super-lightweight, thin-film, and flexible. They use no power when nobody is interacting with them. When users are reading, they don’t feel like they’re holding a sheet of glass or metal.

An article on a study of interactive use of bending with flexible thinfilm computers is to be published at the conference in Vancouver, where the group is also demonstrating a thinfilm wristband computer called Snaplet.

The development team included researchers Byron Lahey and Win Burleson of the Motivational Environments Research Group at Arizona State University (ASU), Audrey Girouard and Aneesh Tarun from the Human Media Lab at Queen’s University, Jann Kaminski and Nick Colaneri, director of ASU’s Flexible Display Center, and Seth Bishop and Michael McCreary, the VP R&D of E Ink Corporation.

SCHOOL OF COMPUTING STUDENTS SPEND SUMMER ON THE CUTTING EDGE

It was an incredible summer for 28 undergraduate students in the School of Computing who spent their four months away from classes getting paid to work on acclaimed and forward-thinking research in the labs of some of their professors.

“This summer was a very valuable learning experience, a wonderful opportunity to apply what I’ve been learning in classes,” says Tom Vaughan, a third year undergraduate student in the School of Computing. Mr. Vaughan was working on a computer assisted surgery project that will eventually make the repair of knee cartilage both more precise and less invasive, and was thrilled to be putting his theoretical knowledge to practical use.

But the program is not only beneficial to the students. Selim Akl, Director of the School of Computing, says that the professors benefit just as much as the students do from the summer collaboration.

“It’s a unique partnership that allows us to engage with our younger colleagues,” says Dr. Akl. “They bring in new ideas and a fresh perspective. We couldn’t do it without them.”

Many of the summer positions were funded through Natural Sciences and Engineering Research Council of Canada (NSERC) programs, primarily the Undergraduate Student Research Awards (USRA) program, as well as the Discovery and CREATE programs. Some undergraduate researchers receive support from special fellowships and other grants. Students typically apply for employment during the summer of their second or third year to work in a lab with a professor who shares their interests. Once accepted, they begin work as soon as classes end.
Many Thanks to our Alumni and Friends

We appreciate the following alumni, faculty, staff, and friends who directed their Queen's University gifts to the School of Computing. Listed below are some of our benefactors who gave between November, 2010 and October, 2011. These donations are making a difference! Annual Giving can help us attract outstanding students and continue our outreach programs.

Dr Selim Akl & Mrs Karolina Akl
Mr Mark Attisha
Dr Perry Bamji & Mrs Annamaria Bamji
Mr Carlos Bhola
Mrs Frances Booth
Dr James Cordy
Ms Lynn Coughlin
Dr Robert & Mrs Anne Crawford
Mrs Suzanne Dashney
Ms Pooja Dayanand
Mr Ge Deng & Ms Jing Chen
Dr Juergen U Dingel
Mr David Franklin Y Ms Lise Chartrand
Dr Nick Graham
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Ms Melissa Trezise
Mr John Van Schouwen & Ms Yolande Akl
Mr Kelly Welch
Dr Sarah-Jane Whittaker & Mr Ben Hall

To make your gift today, please visit www.givetoqueens.ca/computing

WE ARE VERY GRATEFUL to have supportive alumni and friends who are inspired to make a difference at Queen’s. Your support is instrumental in upholding our long-standing tradition of excellence.

The School of Computing delivers an outstanding university experience, both inside and outside the classroom. We continue to attract exemplary students and world-class faculty and researchers. Thank you for making a difference through your generosity and support.

We are happy to help you explore how you can give back to Queen’s and answer any questions about giving opportunities and priorities. Please feel free to reach us at the numbers below. We are also pleased to set up a personal visit to discuss specific projects or ways you can support the department, either now or in the future. Every gift makes an impact. Thank you for your consideration.

Current giving
Carrie Miles: 613 533 6000 Ext 75501 or carrie.miles@queensu.ca
Lisa Sykes: 613 533 6000 Ext 75646 or lisa.sykes@queensu.ca

Legacy giving
Faye Ransom: 1-800-267-7837 or faye.ransom@queensu.ca

Any communication about giving and estate planning will be held in the strictest of confidence

Moved or moving?
You may send address changes to
records@queensu.ca

• $3000 per year pays for a Teaching Assistant which helps both our undergraduate students and the graduate students directly.
• $1000 per year helps COMPSA run their amazing orientation program each September
• $500 per year allows us to upgrade a computer in one of our labs

PLEASE FEEL FREE TO CONTACT US.

Lynda Moulton, Ben Hall
Editors

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