



Computational Times

Newsletter for the Wittenberg University Department of Mathematics and Computer Science

<http://www.wittenberg.edu/mathematics/>
http://www.wittenberg.edu/computer_science/

Volume 2, Issue 1, Fall 2007

VIEW FROM THE DEPARTMENT CHAIR

The fall semester at Wittenberg has been a very busy one for us in the Department. After saying good-bye to Jim Noyes as a retiring Professor of Computer Science, we welcomed Steven Bogaerts (Indiana University) as a new Assistant Professor of Computer Science. Because Professor Nancy Saks was on sabbatical leave, Steve and I had our hands full teaching the computer science courses needed to keep our program growing. Since one of Steve's areas of expertise is Artificial Intelligence, he got to teach our Comp 350: Artificial Intelligence course this fall.

In addition Wittenberg hosted the Fall Meeting of the Ohio Section of the Mathematical Association of America (MAA). During the last weekend of October approximately 100 mathematicians, faculty and students, from the state of Ohio converged in Barbara Deer Kuss Science Center for the event. Due to the careful and exhaustive planning made by the all the members of the department (especially Sharon Shambaugh, our Administrative Assistant, who seems to have limitless energy and an eye for details) the two-day event went off without a hitch (except for the fact that the banquet was almost an hour late in starting – but that's a story for another time). It was particularly appropriate that Wittenberg should host the meeting since Professor Bill Higgins is the current President of the Ohio Section.

Finally you might recall that last year the Department revised the majors in both mathematics and computer science. For the B.A. degree in mathematics we introduced "tracks" within the major – a statistics track, an applied mathematics track and a "traditional" mathematics track. To support our new applied mathematics track we petitioned the Educational Policies Committee (EPC) to allow us to begin the search for a new applied mathematician for our program. The EPC has approved our request so now we're waiting on the Administrative approval. As things develop, I'll keep you posted.

*Brian Shelburne,
Department Chair*

IN THE SPOTLIGHT: STEVEN BOGAERTS

Last semester, the department was saddened to announce the retirement of Jim Noyes after 22 years of teaching at Wittenberg. However, they are thrilled to announce Jim's replacement is Steven Bogaerts, a new Ph.D. in Computer Science from Indiana University who joined us in August as an Assistant Professor of Computer Science.

Steve began undergraduate studies at Rose-Hulman Institute of Technology in 1996, double majoring in computer science and math, with a minor in Spanish. As an undergraduate he attended an REU at University of Alabama in Tuscaloosa, where he studied design patterns. He also spent two summers as an intern at Southwest Research Institute (SwRI) in San Antonio, TX, working primarily in the development of a traffic management system. Steve earned his B.S. from Rose-Hulman in 2000.

He then began graduate studies in computer science at Indiana University (IU), earning an M.S. in 2002 and a Ph.D. in 2007. As a graduate student, he taught an introductory programming course and an artificial intelligence course, and was a teaching assistant in several additional courses. He was also a research assistant for 3 years

with the Pervasive Technologies Lab of IU, where he worked on a project for the U.S. Navy, with a team including researchers from IU, Purdue University, and Crane Naval Surface Warfare Center. Steve's work on the project focused on the application of the artificial intelligence technique case-based reasoning (CBR) to distributed collaborative troubleshooting of ship systems. The project made heavy use of the Indiana University Case-Based Reasoning Framework (IUCBRF), a Java framework for the rapid and modular development of CBR systems. IUCBRF was developed by

Steve under the guidance of his advisor, Dr. David Leake, and is in use by pockets of researchers and instructors around the world.

Steve has always enjoyed teaching, and thus is very happy to be a part of the Wittenberg community where others share that interest and support efforts to continue to improve. He enjoys learning new

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Computational Science: A Bright Light—By Dr. Eric Stahlberg

A question that arises frequently in discussions around computational science is that of ‘How can I *do* computational science if I can’t program a computer?’ The answer to that question is one that truly illustrates the power of computational science, and the reason for the growing demand for individuals skilled in using computers to solve problems.

Computational science is an integrated discipline, a team effort, joining the skills of the mathematician, the computer scientist, the programmer, and the individual seeking a solution to a challenging problem. In the case of computational science, the computer becomes a means to explore and understand more about the challenge, investigating the possible solutions. As a team effort, one individual need not be an expert in programming the computer to use and be successful in computational science; one need only be open to learning new technologies and willing to work in a team.

The experiences of Wittenberg’s interns from the past summer really bring this point home. Majors from biology, biochemistry/molecular biology, chemistry, physics and computer science all enjoyed and benefited from their experiences in developing approaches to more effectively identify new drugs to treat diseases, using virtual microscopy to help diagnose cancer, examining methods for getting an accurate picture of observed interactions at a molecular level, looking at new materials with potential to impact vehicles of tomorrow, and exploring techniques to visualize complex and interacting systems. Some of the experiences involved programming directly though many did not. The common thread uniting these experiences in computational science was the willingness to use computer technologies, learn more about using computers to solve problems, and work as a team to make progress in addressing some incredible challenges.

Of course, the significance of computer programming is still very important to computational science. Programming the computer can take many forms, ranging from prototypes created with Mathematica, Python or VTK (a visualization toolkit), to taking advantage of another’s efforts through applying specific programs like ArcGIS, Spartan, GROMACS, and even Microsoft Excel. It is through the talents and efforts of the software engineer that reliable programs are developed that enable the team to make progress in addressing their challenges.

So why is there continued optimism for computational science? There will be no shortage of challenges in need of solution within the foreseeable future. In fact, the opportunity for innovative solutions is expected to grow greatly as computers are increasingly relied upon as affordable research and development tools. Individuals with experience in computational science are increasingly sought as much for their well-rounded team skills as for their technical abilities. On campus, investments in computational science are continuing, building ever more interesting opportunities for Wittenberg students. Stay alert to opportunities for many exciting internship and research opportunities in the coming months. The future for computational science is growing increasingly bright indeed!

Problem Corner

Let m be the least common multiple of the integers 1, 2, 3, ..., 2006.

Find k so that km is the least common multiple of the integers 1, 2, 3, ..., 2007 and prove that your answer is correct.

Send your answers to whiggins@wittenberg.edu by April 30, 2008. We will randomly select one person from all correct entries to win a home-made cheesecake from Dr. Higgins! Alumni/ae and prospective students are welcome to participate!

In the Spotlight (cont).

material to incorporate into his classes, and values the opportunity to interact with the students. When asked about his experience at Wittenberg so far, he said, “I am thankful and excited to be a part of the Math and Computer Science Department at Wittenberg, and am looking forward to the future.”

The computer science majors are especially excited to have a new face and a fresh outlook in the department. When asked, Nick Kovach ’08 said, “It is great to have Dr. Bogaerts at Witt and I was really excited to have a class with him this semester. The material is hard, but he has a knack of simplifying concepts and really listening to student input.” Jason Evans ’10 echoes this sentiment: “He simplifies the learning process and interacts with the class really well. As a result, we are able to focus more on application and actually learn to apply our knowledge to real world problems.”

Welcome Steve!



Steve Bogaerts

FALL MEETING OF THE OHIO MAA HELD AT WITTENBERG

The department was very happy to host the Fall 2007 meeting of the Ohio Section of the Mathematical Association of America (MAA) on October 26-27.

The MAA is one of the professional societies for college math teachers and anyone else with an interest in mathematics. In fact, many of our students are members of this association. While the MAA is a national organization, it consists of smaller “sections” that organize their own conferences, workshops, contests, and programs to augment the national MAA activities. Ohio boasts the oldest and one of the most active sections in the nation. The section consists of approximately 40 schools and holds two meetings a year—one in the fall and one in the spring.

The Fall meeting brought together approximately 100 mathematicians from across Ohio and as far away as New Hampshire for a weekend of mathematics.

The conference began on Thursday night with a special banquet for members of Ohio NExT, which is the section’s professional development program for faculty in their first six years of teaching. Ohio NExT ran a series of talks Friday morning on topics ranging from cutting-edge technology use in the classroom to new pedagogical techniques to how to write good exam questions. Adam Parker gave one of these talks.

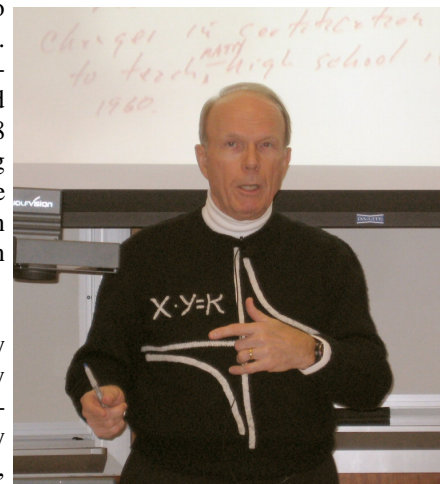
After the Ohio NExT programming there were committee meetings which ran until the start of the actual conference in the early afternoon. Over the rest of Friday and Saturday morning there were plenary talks presented by Mihai Caragiu (Ohio



Dr. Frank Ryan—former quarterback of the Cleveland Browns

Many thanks to Carl Spitznagel for taking the pictures

Northern University), Tom Price (University of Akron) who was the section distinguished teacher two years ago, and Dick Little (Baldwin Wallace College) who is an alumnus of Wittenberg! The special guest speaker who gave both a plenary lecture as well as an after-dinner talk was Frank Ryan, the only Mathematics Ph.D. recipient ever to play in the NFL. Dr. Ryan was the quarterback of the Cleveland Browns from 1962-1968 and he was the starting quarterback for the Browns when they won their last NFL title in 1964.



Wittenberg Alum Dr. Dick Little - in a very cool sweater

In addition to the plenary talks, there were many presented papers, a delicious banquet on Friday night, book publishers, and ample snacks and socializing. A large part of the value of this conference is talking to other college faculty and getting ideas to improve your classes.

It was appropriate for Wittenberg to host the section meeting this year as Bill Higgins is currently serving a term as President of the section and won the distinguished teaching award last year. (You can read about this award in the last issue of the newsletter.) Adam Parker is chair of the Ohio MAA committee on curriculum, and both Adam and Bill serve on the executive committee of the section.



Relaxing between talks.

We'd love to hear from any departmental alums. Please take a few minutes to drop a line to dandrews@wittenberg.edu to let everyone know what you're up to these days. And are there some fellow alums you'd like us to help track down? Send us a few leads, and we'll do our best to help find your old buddies. Thanks!

FACULTY NOTES

Steve Bogaerts is busy getting acclimated to his new environment at Wittenberg. In preparation for his courses this semester he has engaged in a self-study of the Python programming language and parallel programming on the Wittenberg Advanced Research Processors (WARP) cluster.

More recently Steve has been in discussion with Dr. Eric Stahlberg and representatives from the bioinformatics group of the Columbus Children's Research Institute at Nationwide Children's Hospital. These discussions have focused on defining the details of a project for the senior seminar in computer science to be offered this spring. The project will consist of a system for access of a database of microscope slide images. Once a basic prototype is completed, there will be opportunities for additional refinement (perhaps later in the semester, or further in the future) to allow functionality such as more sophisticated queries, image attribute identification, and other forms of image processing. In particular, one possible future direction for this project is the application of case-based reasoning, an artificial intelligence technique in which past problem-solution pairs are used to assist in solving new problems.

Steve has also attended various workshops on faculty development, including a New Experiences in Teaching (NExT) workshop as a part of the Ohio section MAA meeting, and a meeting of the Southwestern Ohio Council for Higher Education.

Doug Andrews: For the U.S. Conference on Teaching Statistics (USCOTS) in mid-May, I co-organized and refereed a two-day peer-reviewed session of presentations, posters, and interactive demonstrations, featuring best practices in statistics education. I've also been chosen to take part in a group of statistics educators charged with standardizing curricula in post-introductory courses, which will report at the next USCOTS in 2009. Right now I'm looking forward to offering another such post-intro course myself next semester: the new Statistical Design course.

Al Stickney: After having been on sabbatical leave for the 2006-07 school year, I'm glad to be back in the classroom this fall, teaching Calculus II, Geometry, and Linear Algebra. Next semester, I'll have a student pursuing an independent study in Number Theory, which is one of my favorite subjects. All of us in the department had a rewarding, but busy, experience hosting the Fall Meeting of the Ohio Section of the MAA in late October (see article on page 3). As I write this, we are finalizing plans for a group of our students to participate in the 2007 Putnam Exam, a national mathematics contest for undergraduate students. Of course, we will also take part in the annual Five College Mathematics Contest next semester.

Bill Higgins: My term as president of the Ohio Section of the MAA is now about half over. It ends at the spring section meeting that will be held April 11-12 at Marietta College. Each year, students are encouraged to attend and give talks at the spring section meeting. Last year five Wittenberg students attended! I hope as many or more will join us in Marietta this spring. This fall the section meeting was hosted at Wittenberg and I thought the meeting went quite well thanks to everyone in the department and the students who pitched in to help.

In July our family went on vacation to Yellowstone and then headed to southern California to visit California State University Channel Islands where we plan to spend the 2008-09 school year while on leave. From there we went to San Jose State University to take part in the MAA's Summer MathFest. In January, I'll be heading to San Diego to attend the Joint Meetings of the MAA and AMS and while there, I will serve as a judge at the undergraduate student poster session where about 120 or so students, including our own Alyssa Armstrong, will present their mathematical results from summer REU's or honors projects. In San Diego, I will also attend a meeting of the editorial board of the new MAA Textbook series which I was recently invited to join.

Brian Shelburne: Aside from my duties as chair I've been involved in a couple (or three) other projects. Last December the department was contacted by Tecumseh Local Schools (the Tecumseh school district is just west of Springfield) about collaborating on an application for a Math/Science Partnership grant from the Ohio Department of Education. Tecumseh Local Schools got the grant and I, along with Professors Gina Post and Steven Broidy from the Education Department, have been involved with this ever since.

I am the "math content" person for this grant. As part of the grant, this past summer I taught a one-week course titled "Ten Mathematical Themes" to about 20 elementary and middle school teachers from Tecumseh. Ten Mathematical Themes is a survey course that considered and developed "ten ... mathematical ideas expanding on the underlying mathematical content and concepts by placing the mathematics in its larger context: cultural, historical and pedagogical". Some of the "themes" covered were such topics as the development of our modern place value number system, Euclid's Elements and the Pythagorean theorem, numeric codes and ciphers, computing pi, finding the volume of a pyramid, linear models, Pascal's triangle and the Fibonacci sequence. My involvement with the grant continues as I'm participating in the monthly follow up seminars out at Tecumseh where I give a 20 - 30 minute talk on some topic of mathematical interest that elementary and middle school teachers can take back to the classroom.

On the computer science side of things, I attended the Consortium for Computing Science in Colleges (CCSC) 2007 Midwest Conference at Miami University Hamilton where I presented a talk on a "nifty-assignment" project called Grid401.cpp: A C++ Graphics Framework Program. (if interested google "Grid401.cpp"). I also completed work on a Java Byte Code engine simulator (similar to the PDP-8 Emulator used in my Comp 255 course) to allow students to write and execute Java Byte code programs (i.e. Java assembler). So now in addition to writing assembler programs for the PDP-8, the ARC (a RISC computer simulator that comes with the text) and the Intel 80x86, Comp 255 students can write (and execute) Java Byte Code assembler programs.

I've been busy.

FACULTY NOTES (cont.)

Adam Parker I was busy this Fall giving talks and serving on committees. I gave two talks at the University of Dayton (on in their Faculty Colloquium and one to the Math Club) and one at the Fall meeting of the MAA which was held here at Wittenberg. In addition to several Wittenberg committees, I'm also serving as chair of CONCUR, the Ohio MAA committee on curriculum.

In addition I received course development money from the Wittenberg Computational Science Grant for a course in Computational Algebraic Geometry which will run this Spring. My research is in Algebraic Geometry and I'm very excited to teach a class related to my work.

Also, in June I got married to Dr. Bernadette deGuzman (now Parker) and am enjoying married life.

ALUMNI NOTES

"Scooter" Michel '87 (physics) graduated from UCLA in 2004 with a Ph.D. in Computer Science and is in "management at The Aerospace Corporation... in sunny Southern California."

Sarah (Perkins) Stevenson '93 (math) "worked for Ameritech then SBC for 9 years managing a number of projects then finally running a 150 person technical support team within the company. I received my MBA from The Ohio State University in 1997. I moved to Chicago in 2000 with SBC but left the company in 2002 to go back to school to get my teaching certificate. So I've been a high school math teacher since 2004 and received my Masters in Teaching from National Louis University in 2004.... On a personal note, while working at SBC I met my now husband, Roger (we married in 2003). We now have a beautiful little girl, Emma, who was born in August 2005. She is absolutely adorable and keeps us laughing with her non-stop chatter."

Lariece (Grant) Brown '95 (math) is now "working as a Housing Economist with Freddie Mac after getting my PhD in econ from Ohio State."

John Schipfer '96 (comp) spent "a year coaching college baseball" then took MBA classes and "started a rewarding career in the financial sector.... After spending 3.5 years at Huntington, I accepted an offer to join National City Corporation in 1998." Starting with various responsibilities in the technical end of the business, he jumped to the management track: "As DBA Technical Lead, I was responsible for direct supervision of 25 Database Administrators and was accountable for providing strategic planning of over 250 internal corporate databases.... During this time, I hit night school & with the support of my wife Marlo & family, in 2002 earned my MBA at Franklin University School of Business in Columbus.... In 2004, I became Assistant Vice President for National City Corporation and moved into the role of Group Manager over our National City Online Banking & Sales Marketing Technical Support Teams... and moved into a Quality Consultant role.... Our four girls range from 10 to 2 & 75% are walking the school halls of Mechanicsburg, OH."

Julie (Hochesang) Melberg '97 (math) "got my M.A. in Mathematics from California State University, Fullerton. I have taught for 9 years at Foothill High School in Tustin, CA, teaching everything from Algebra 1 to Geometry to Pre-Calculus to I.B. Math Standard Level. I was married in August 2004 to Rorik Melberg, a computer science major from California Lutheran. In April 2006 we had a baby, Sophia.... In January of this year, I began teaching evening mathematics courses as an adjunct professor at Concordia University in Irvine.... I've worked for 7 years with the new math teachers in Tustin Unified School District, observing and mentoring them through their first two years of teaching (with hopes of keeping them in the profession).... Other than that, Rorik & I spend our time working around the house on lots of projects, hiking in the local mountains, making some homebrew, traveling, and hanging out with our friends."

Kim Lane '97 (math) After graduating, I went to Burkina Faso with the Peace Corps and taught math for 2 years to junior high students... lived in New York City and worked for a GED/job training program as a case worker and job skills teacher... moved to Phoenix and was a student full time in a Masters of Social Work program. Reconnected with a fellow Witt alum (Jason Bellomy, class of

THANK YOU

The Department would like to thank the following alumni for coming back to Wittenberg for Alumni Career Day over Homecoming Weekend. We faculty enjoy hearing about your successes and our students benefit by learning the great things you can do with a Math or CS degree.

Scooter Michel '87

John Schipfer '94

Mike Andrews '96

Brett Rudy '05

Jon Stewart '06

If you'd be willing to come back and talk to our current students for a future Career Day, please contact Doug Andrews at dandrews@wittenberg.edu

ALUMNI NOTES (cont).

'98) and got married in January 2003. After finishing my MSW, I took a job as a school social worker and ended up teaching junior high math!" She and Jason have two kids now: Jack and Ben. "I'm also a webmaster for a local soccer league (www.azwomenssoccer.org) and I tutor some of my former students in Algebra and trig so the math is still in me!... And I'm still playing soccer, too."

Jonathan Morgan '98 (comp) is now "an instructor at Michigan State's school of journalism now (as well as the Multiplatform Editor for the Detroit News)."

Randy Tobias '98 (math) is now in his fifth year of teaching at Keystone Oaks High School in the Pittsburgh area. In addition to teaching AP Calculus and the Honors Precalculus classes, "I am running the Math Club at the high school and am the MATH-COUNTS coach for the middle school. Last year, I am proud to say, one of my "Mathletes" placed 4th in western PA and 42nd in the state of Pennsylvania. I am also starting my 4th year coaching baseball at KO; I am the junior high head coach."

Aric Thomas '99 (math) "took at mathematics job with Columbus Public at Beechcroft High School. I taught math there for 7 years as well as coached baseball and football. I completed my MA from Ohio State in the summer of 2006 in Educational Administration. I am in my second year as an assistant principal with Groveport Madison Local Schools. My family consists of my wife Donita Thomas (married 8 years this month), Riley Thomas 5, and Makenna Thomas 3. We reside in Columbus."

Sarah Kneuss '00 (comp) is "currently working for Tuscarawas County Board of Elections as their Deputy Director. I oversee the new electronic voting machines and daily office operations."

Laura (Mayer) Connor '00 (math) is "still teaching math at Oakwood High School in Dayton and coaching the Varsity Volleyball team. My husband, Brian (also a teacher) and I are expecting our second child around Thanksgiving and our daughter, Mollie, will be 3 years old in December."

Mike Pascoe '00 (comp) is "actually an attorney now. I'm in the litigation department at Hahn, Loeser, and Parks in Cleveland Ohio.... I can definitely say that the analysis I learned in obtaining my degree definitely helps in the legal profession. Just like we learned to break down a complex problem into functions to write programs I'm using that logic to break down complex legal issues. It also helps to be able to explain complex concepts (like computer related issues or complex legal issues) in easy to understand terms."

Adrienne Smith '01 (math) is "currently teaching math at North Royalton High School – this is my 7th year here and I am also the Head Varsity swim coach for both boys and girls. I have completed my master's degree in education from Baldwin Wallace College and did post masters work in administration and now I have my principal's license."

Elizabeth Hardesty '03 (math) is still working for Shell: "My current project with the Onshore Shale Gas Team has me in charge of the coring operations for an exploration well we are drilling."

Katie Joseph '03 (math) ran in the Rock 'n' Roll Half Marathon in Virginia Beach over Labor Day weekend: "I ran the entire time and I finished in 7 minutes under my goal.... It was honestly one of the greatest things I've ever accomplished because I was so not a runner but I worked really hard and even came in second place out of our group of 6 that ran it." Still working with the federal government's Office of Personnel Management, she's also taking coursework at the JPSM (Joint Program in Survey Methodology) at the University of Maryland.

Michael Fairbanks '04 (comp) "completed a Master's Degree in computer science at the University of Cincinnati. Upon graduation I took a position as a Forensic Analyst with the Ohio Attorney General's Office Health Care Fraud Section. In a sentence my job basically entails capturing data that resides on a suspect's computer and analyzing whatever I might find. Aside from work I recently got engaged and am dealing with all the fun that planning a wedding entails."

Michelle Bauer '05 (math) is "living in Las Vegas now and working as a Financial Analyst/Field Auditor for a retail company. I really enjoy it and so far they are keeping me on my toes. I have decided to apply to grad school here at UNLV in their mathematics program. I'm currently debating between their applied or statistical programs."

Brett Rudy '05 (math) is "currently I am working on my MPA (Master of Public Administration) at the University of Kentucky here in Lexington, KY. I finish in May of '08 and am planning on moving back to Springfield to work with the city, hopefully in the City Manager's office. I have just been recently engaged to my fiancée Emily Rottenborn, another '05 graduate of Witt. We will be getting married in the fall of '08... at Weaver Chapel. I also recently did an internship there in Springfield at the Clark County Dept. of Job

ALUMNI NOTES (cont).

and Family Services, which wrapped up at the end of July.”

Gina Flocken '06 (math) is “currently living in Columbus working at The Sygma Netowrk, a National food distributor and a Sysco company as an Inventory Pricing Specialist...working closely to the buyers. As mentioned in the last math newsletter, Erin Beeler and Liz Volz both work with me!”

Ramin Mesghali '06 (comp) is “currently working for Premier Health Partners - Miami Valley Hospital as an Associate Citrix Systems Analyst.”

Jon Stewart '06 (math) is still working for the Federal Reserve Bank in NYC: “Law school seems to be on hold. I've realized that I'm enjoying what I'm doing right now too much to make a switch like that. I plan on looking for a job over the next year with the same sort of focus - economic research - perhaps with more of an investment/finance/business focus. I'd like to stay in the New York area. Law school may still occur in the future, but I'm also going to be looking at other options, such as an MBA.”

Jennie Williams '06 (math) is still studying biostat at OSU, when she can find time away from tail-gating. “I am finishing up my summer internship at Boehringer-Ingelheim, a pharmaceutical company here in Columbus (based out of Ingelheim, Germany). I am working in the quality control department officially, but I have ventured into production technology quite a bit also. So I have strayed from clinical statistics and have gained some VERY good experience in industrial statistics.”

MAJOR NEWS

Alyssa Armstrong spent 9 weeks of her summer down in San Antonio, TX at Trinity University participating in an REU program. She researched a problem in the field of combinatorics with two other participants. She also spent a lot of her time in San Antonio sight-seeing and hanging out with the other participants, as well as reading a lot of Harry Potter!

Kate Snead is a brand new math major. She will be focusing her studies on Statistics and Psychology. She is a member of the very successful Wittenberg Volleyball team and spent this past summer in Spain traveling and playing against semi-pro and the U-18 Spanish National Team. The rest of her time was spent working for the team and preparing for the next season.

Jonathan Felter spent his summer living back home in Chicago, IL. He worked downtown at a marketing research firm called Mediamark Inc. They are one of the top three companies in the world for marketing research and they are considered the gold standard in magazine data. He also traveled to Puerto Vallarta, MX and went on a cruise to the Hawaiian islands. He is graduating in December and is interviewing right now with three of the top five ad agencies in America: Starcom, Ogilvy, and OMD. With any luck he will land a job at one of those three and do Media Planning for a career and live on the north side of Chicago.

Nicholas Kovach has been with Edaptive Computing in Dayton for a year as an intern. He works on the development team improving software and modeling business processes. He is currently working on an independent study in game development with Nancy Saks. The game framework allows code to be written for the PC and the Xbox 360.

Mark Lintern worked at an internship for CFA Networks. He worked as an IT Specialist and managed IT services using their flagship Sentinel software. CFA Networks specializes in database management and is centered in Springfield, OH.

Brian Ervin interned at Northside Family practice in Springfield this past summer. He went to Colorado for an athletic camp. He also took his MCAT and plans to attend med school after graduation.

Paul Weber spent last summer working at Lutheran Outdoor Ministries of Florida. Ever since hearing about Alyssa's amazing opportunity, he has been looking forward to applying for an REU next summer.

Danny Marous worked on modeling proteins using the GROMACS computer software and Wittenberg's computer cluster. Two proteins he focused on were the S-Peptide (part of a digestive enzyme) and the Glucose/Galactose Binding Protein (transport protein involved with bacteria). Using mathematical models for molecules, he investigated energy and conformation changes in these proteins over time.

Considering a Donation ?

If you would like to make a donation to the math department, you can make a donation to the "MATH DEPARTMENT GIFT FUND" at

The Wittenberg Fund
Wittenberg University
PO Box 720
Springfield, Ohio 45504-0720

Make sure to designate your donation to the math department. Your gifts help support undergraduate research, travel, and the general mission of the department. We appreciate all of your help.



Welcome!

The department would like to welcome all of our new majors and minors that have declared during the spring. We're happy to have you in the department!

Mathematics Majors:

- Brandon Bock '10—Bryon, OH
- Amanda Furness '10—Strongsville, OH
- Danny Hall '10—Columbus, OH
- Kathleen Snead '10—Westerville, OH
- Paul Weber '10—Elmhurst, IL

Mathematics Minors:

- Amelia Bunce '08—Rocky River, OH
- Matt Delestienne '08—Venetia, PA
- Joseph Fritchman '08—Dayton, OH
- Kristen Ritter '08— Noblesville, IN
- Nathan Vanhoose '08—Urbana, OH
- Jon Wantz '08—Beavercreek, OH
- Robert Woodring '08—Columbus, OH
- Jennifer Knapp '10—Stow, OH

Computer Science Majors:

- Laura Linden '08—Troy, OH
- Leo Barrera '10—Laredo, TX
- Brian Morrow '10—Stow, OH
- Avery Howard SCE—Columbus, OH

**Computer Science
Minor:**

- Brian, Harris '08—Harrisonburg, VA

**Computational Science
Minors:**

- Nicholas Kovach '08—Norwalk, OH
- Robert Woodring '08—Columbus, OH
- Jessica Brewer '10—Springfield, OH

Stat Minor:

- J.P. Jackson '10—Solvang, CA

Department of Mathematics and Computer Science
Wittenberg University
P.O. Box 720
Springfield, OH, 45501

Postage

