

Summations

New Statistic Major



Left to right: Drs Subramanyam Kasala, Dargan Frierson, Jim Blum, Shiva Saksena, Susan Simmons.

A new major has just been implemented in the Department of Mathematics and Statistics - the **Bachelor of Science in Statistics**. The program began in the Fall semester of 2002 and students are excited about

the variety of options it provides for those wishing to study statistics. The program prepares graduates for careers as applied statisticians in government, business, and industry. Students interested in further study beyond the

bachelor's level, may take coursework giving them the theoretical depth required to pursue graduate degrees. In recognition of the interdisciplinary nature of statistics, coursework in other disciplines such as biological, environmental, or social sciences can be undertaken, depending on the students' interests. Since statistical practice routinely involves computers, the use of standard statistical software is integrated into most courses.

The **minor in Statistics** has also been recently revised to consist of only 18 semester hours, including the introductory class in statistics and the statistical computing class using SAS. The remaining 12 hours are taken in statistics at the 300-400 level. Many students in mathematics, computer science, and the biological sciences are minoring in statistics to give their resumes an added boost!

Statistics Consulting Center

Starting in the fall of 2003, a new course will be available to graduate students who seek statistical consultation on their projects. This course, Statistics 500, is designed to provide directed study on statistical topics relevant to the student's research project. It is our goal to have the structure of the Statistical Consulting Center (SCC) fully in place for the fall semester to coincide with this new course offering.

The SCC is an emerging unit within the Department of Mathematics and Statistics. The statistics faculty is making an effort to organize and formalize its long-standing efforts in consultation with students, faculty, staff and administration at the university and the surrounding community. Recently, space in Bear Hall 211, and computing resources, have been made available for use by the SCC. Work is continuing on establishing statements of purpose,

policies, procedures and an organizational structure. A web page that will house some of this information along with methods of contacting the center is also currently under development. More information will be available at the departmental home page as it becomes available.

Distinguished Faculty Award named for J. Marshall Crews



Members of the UNCW Alumni Association Past Chairs' Council congratulate their award namesake J. Marshall Crews and his wife Margaret.

The Past Chairs' Council of the UNCW Alumni Association presented its first J. Marshall Crews Distinguished Faculty Award on August 20, 2002. The award is named for Dr. Crews who joined Wilmington College in 1948 and served the college and university for more than 30 years. In addition to teaching mathematics, he was an academic dean, registrar and admissions director prior to his retirement in 1981.

"When the committee received Dr. Crews' nomination for the award, we concluded that he was too important to the history of the university to honor with a one-time award," said Judge Rebecca Blackmore'75 council chair. "I'm deeply honored and appreciative to have this award named in my honor," said Crews. "One of the benefits of teaching is to help people and to make a difference in their lives. I always believed in being friendly with students for one day they will be your friends." Former student Jim Medlin said, "There is no better role model. He has stood the test of time and is a premiere candidate for this award."

An extraordinary leader who brings out the best in her students, Rebecca Porterfield was the named the inaugural recipient of the J. Marshall Crews Distinguished Faculty Award. Porterfield, associate vice chancellor for academic affairs and Cameron School of Business professor, was unable to accept the award in person. She was in Virginia as part of an accreditation team for the Southern Association of Colleges and Schools and learned of the honor two nights later after arriving back in town in time to teach her MBA course.

"I was both surprised and shocked. It's quite an honor to be recognized by the alumni. I can't think of any higher compliment that a teacher can receive than to be singled out for recognition by former students," Porterfield said. "The award is one way for alumni to show our appreciation," said Rebecca Blackmore'75, council chair. Members of the Past Chairs' Council realized how much they had benefited from their UNCW education, and the guidance from the faculty had a positive impact on the majority of their lives, she added.

Nominees for the J. Marshall Crews Distinguished Faculty Award must be or have been a full-time faculty member at the university for a minimum of seven years. Nominations are accepted from university faculty, staff or students as well as alumni and members of the community. In addition to a medallion, the winner receives a \$500 cash stipend.

MATH FUN

Solve the following equation for x.

$$\log_2 X + 4\log_x 2 = 5$$

Solution to Spring 2002 Math Fun!

Congratulations to **Jody Hinson** who had the first correct answer to the MATH FUN from the spring 2002 issue of *Summations*. Jody graduated from UNC-W in summer 2002 with a Master's in applied mathematics. The title of Jody's thesis was "Population Dynamics of Two patch Diffusively Coupled Predator-Prey Interactions".

JODY'S SOLUTION

The following problem is from the 2002 UNCW High School Mathematics Contest.

Four equilateral triangles each with side length 1 are arranged as shown. Find the distance from the point A to the point F.



Use the law of cosines:

$$\begin{aligned} a^2 &= b^2 + c^2 - 2bc \cos A \\ a^2 &= 1 + 4 - 2 \cdot 2 \cdot 1 \cdot (-1/2) \\ a^2 &= 5 + 2 \\ a &= 2.646 \end{aligned}$$



Paris Faison began his studies here at UNCW in fall of 1998 right after his graduation from high school. At that time, he was certain that he wanted to pursue a major in mathematics. Although he was highly interested in many areas of study, mathematics was the area that seemed to captivate him the most. The intricacies and expansiveness of the subject were things that seemed to complement his drive for knowledge.

As an undergraduate student, Paris was very persistent and diligent in his studies and he strived to do his best. Besides obtaining a B.S. in Applied Mathematics, he also achieved minors in computer science and statistics. He made the Dean's List each semester and was also on the Chancellor's List in spring 2000. He was awarded several scholarships during his study such as the NC Teaching Fellows Scholarship (1998-1999), the Kenansville Eastern Missionary Baptist Association Scholarship, the University Scholarship, the UNCW Scholarship, the Bookstore Scholarship, the Aaron and Elizabeth Silverman Scholarship, and the Adrian Hurst Math Scholarship. Paris' hard work and persistence paid off, as he was able to complete his undergraduate studies a semester early in December of 2001.

In spring 2002, he started to pursue a M.S. degree in Applied Mathematics, by joining the graduate program in Mathematics and Statistics here at UNCW. During his time of study, he has also worked as a graduate teaching assistant. In the 2002-2003 academic year, he was awarded the prestigious Champion McDowell Davis Scholarship from UNCW Graduate School. Paris completed his master's degree in May 2003. After graduation he would like to begin work in the field of statistical analysis and/or statistical programming. He also hopes to continue his academic endeavors by pursuing a Ph. D. in the near future.

Although Paris has managed to make notable accomplishments academically in his life, what unquestionably fills him with the most pride is being the father of a precious two year-old girl. He feels that she has made him become more focused and determined in achieving positive things in life, and being someone she can be proud of is what he hopes to accomplish most.



Since coming to UNCW in 1977, I have helped contribute to the growth of the statistics program within the Department of Mathematics and Statistics. As the only statistician here for several years, I was able to help plan and teach all the statistics courses in the department. I participated in the hiring of the four newer statisticians in the department and watched statistics grow from offering only a few courses in 1977 to the implementation of a new Bachelor of Science major in Statistics this fall. We also have introduced a minor in Statistics requiring eighteen hours of statistics coursework and have found that many students are excited by these new opportunities in this growing field of study. Both the major and minor focus mainly on applied statistics, and students are able to use their statistics training in many areas of application, especially in the pharmaceutical industry. Over the years, I have also been able to contribute to the research efforts of professors in many other departments at UNCW by consulting with them on their experiments and helping to analyze their data. Early on in my career here, I participated with **Dr. Dale McCall** of the Sociology and Anthropology Department and the Center for Marine Science Research on his research by modeling the genetics of the High Pressure Neurological Syndrome in mice. We continue our collaboration to this day, now involving other statistics faculty and graduate students, and are currently focusing on finding the specific mouse genes involved in hypoxia through analysis of data arising from Dr. McCall's microarray experiments.

Recent Publications

- "The relationship between heat flow and vasculature in the dorsal fin of wild bottlenose dolphins, *Tursiops truncatus* ." , to appear 2003 in The Journal of Experimental Biology. (with Meagher, E.M., McLellan, W.A., Westgate, A.J., Wells, R.S., and Pabst, D.A.)
- Navigations through Probability: Grades 6-8, National Council of Teachers of Mathematics, to appear in 2003, (with G. Bright, J. Tarr, and C. Thomas).
- "Precocial Development of Axial Locomotor Muscle in Bottlenose Dolphins (*Tursiops truncatus*)", Journal of Morphology (2000) 244:203-215 (with J. Dearolf, W. McLellan, R. Dillaman, and A. Pabst).
- "Two Genes of Major Effect on Hypoxic Exercise Tolerance Localize to Chromosomes 14 and 16 in the Mouse" in Progress in Mountain Medicine and High Altitude Physiology, p. 408-412, Dogura & Co. Ltd, Kyoto, Japan (1998) (with R. D. McCall).
- "Inheritance of Hypoxic Exercise Tolerance in Mice", Behaviour Genetics, vol. 27, No.3, 1997, pages 181-190. (with R. Dale McCall).
- "A Framework for Assessing Knowledge and Learning in Statistics (K-8)" (with Susan Friel (UNCCH), George Bright (UNCG), and Gary Kader (ASU)), Chapter 5 in The Assessment Challenge in Statistics Education, edited by Iddo Gal and Joan Garfield, 1997, The International Statistics Institute, IOS Press, Amsterdam.

Greetings from Kiev, Ukraine



Greetings from Kiev, Ukraine! I have been asked to tell you a bit about what I've been doing during my leave of absence this year. I am currently interim director of Ministry to Eastern Europe (MTEE) in Ukraine. MTEE has about 1,100 students attending 32 Bible schools all over Ukraine. These students are enrolled in a four-year bachelors program that grants a B.A. in Theology. Their program is intended to prepare church workers for leadership positions in a rapidly growing number of protestant churches in Ukraine. I originally came here with my family in answer to a call for a fulltime missionary couple that could be "spiritual parents" for Ukrainian national Bible teachers and pastors. Since my primary responsibility at UNCW is to train teachers, it was also expected that I would work with Bible teachers here in improving their classroom instruction. My job description was modified substantially at the beginning of December when, due to various circumstances, I replaced the former Ukrainian director. This has proven to be quite a challenge for me – managing a budget, staff and teachers, while traveling around Ukraine with my family, visiting Bible schools and churches.

MTEE has an interesting scheduling scheme for classes. Classes are held Friday evening and all day Saturday, once a month. Students receive 12 hours of lecture, then are expected to study the textbook on their own, answer questions, write a paper, and take an examination. The teachers are itinerant. That is, each week they travel to a different school, usually teaching the same course in three or four schools during a given month. The Bible school teachers and students are young in the faith (since the fall of communism), with young marriages and families. My wife Susan and I mentor them both in terms of their relationship with God and with each other. Since August, my family and I have traveled nearly 6,000 kilometers (4,000 miles) by train, bus and car. Our son Carl is still enrolled in Wilmington Academy of Arts and Sciences. Since he does all of his schoolwork at a distance, he has the flexibility of traveling with us wherever we go. This has turned out to be a terrific experience for him!

We are currently taking Russian lessons twice a week, and though I can't say that my speaking has improved much, it's obvious that I understand more of others' conversations. Fortunately, we have a number of English-speakers in the national office who are more than helpful in deciphering documents and translating for me when pastors, administrators and teachers come to visit us. I also have been conducting weekly English lessons for the staff, working especially on their grammar. This, combined with the practice they get in speaking English with me has proven to be a real benefit for them in their jobs.

As for daily life, we live in a two-bedroom apartment on the fourteenth floor of an apartment building at the end of one of the subway lines in Kiev. I am able to walk to the office, which is wonderful for me (we don't have a car here). We live within walking distance of a number of Ukrainian grocery stores, as well as the local outdoor bazaar (sort of a Lowes Superstore turned inside out). We also have some Western-type grocery stores available to us along our subway line. This is a city of approximately 3 million people, so there are amenities here that do not exist in most of Ukraine. There are McDonalds restaurants all over the city, and believe it or not, there is even a TGI Fridays downtown!

After spending a year in the Ukraine, Paul realized that this was his calling. He and his family decided to make a long-term commitment to the mission field. Dr. Shotsberger will be missed a great deal by his colleagues and students.

Etheridge and McLaurin to Retire

After twenty four years of service to UNCW, **Professor William L. Etheridge** retired in May. He arrived at UNCW in 1979 with a Ph.D. in Applied Mathematics from Purdue University, and B.S. and M.S. degrees in Mathematics from the University of Illinois at Urbana-Champaign. Before turning south, he was an instructor at North Dakota State University for four years.

Initially Dr. Etheridge's areas of interest were in differential geometry and applied mathematics, in particular as applied to relativity. Like his Ph.D. advisor James Thurber who just recently retired from Purdue, Dr. Etheridge's direct mathematical ancestors include Courant, Hilbert, Klein, Lipschitz, Dirichlet, Poisson, Fourier, Lagrange, Euler and a few Bernoullis. His original interests have expanded to include numerical analysis and computational science where he has done joint work with Dr. Jeff Brown.



Dr. Etheridge has taught a variety of courses from the freshman to graduate level. The department has relied upon his expertise in a mix of areas involving geometry and analysis in order for him to often teach multivariable calculus at the intermediate level, numerical analysis at a variety of levels, and partial differential equations and analysis at the senior/graduate level. He chaired the departmental committee that developed the original proposal for the graduate program in mathematics; two different department administrations have relied upon his long standing contribution to the department's Budget and Administration Committee. Other areas in which

he has been active include technology and lower division mathematics instruction. The department will note his absence in these areas, and in return, wishes Bill and Jean Etheridge the best for the future.



Professor Sandra McLaurin also retired in May, 2003. She originally came to UNCW as a lecturer, and was appointed as an Assistant Professor in 1979. She was promoted to the rank of Associate Professor in 1985 and to Professor in 1999. Dr. McLaurin earned the B.S. and M.A. degrees from East Carolina University and did her doctoral work at the University of South Carolina. She also taught at the University of South Florida, The University of South Alabama, and at John T. Hoggard High School and Roland-Grice Junior High in Wilmington.

Dr. McLaurin's research interests have been in combinatorial design theory and the history of mathematics. In collaboration with other UNCW mathematics and computer science faculty, she has published articles in professional journals on topics such as Latin squares and tournament designs. She is also the author of journal articles on the teaching of mathematics.

In addition to teaching a variety of courses from the introductory level through graduate courses in modern algebra, Dr.

McLaurin directed undergraduate and graduate student projects. She made many important contributions to the growth of the department in roles such as Assistant to the Chair, Director of the Math Lab, and for the past four years as the Coordinator of Graduate Studies. She will be missed by students, staff, and her faculty colleagues.



Dr. John Karlof received a Faculty Reassignment Award for spring semester, 2003. This means that he was able to concentrate full time on his research and not have any classroom teaching duties. However, in addition to his own research, Dr. Karlof will be working with two graduate students advising them on their masters' theses. His research area is coding theory. Dr. Karlof is collaborating with Professors **Ezio Biglieri and Emanuele Viterbo** of the Politecnico di Torino (Italy) on this research. Dr. Karlof has collaborated with Drs. Biglieri and Viterbo previously and has published a paper with them. He went to Italy last summer to begin working with them on this project. The title of the research project is *A New Approach for Coding and Decoding Group Codes*.

Whenever high-speed communication is attempted, for example between a transmitter on Earth and a receiver on a satellite, "noise" in Earth's atmosphere and space caused by radio signals, storms, sun spots etc. alters the signals being sent to the satellite. The signal that the satellite receives most often will not be the signal that was sent. Hence, the receiver needs to guess which signal was sent. The receiver needs a fixed procedure for guessing that can be applied in all such circumstances. The set of signals that represent the messages available to the transmitter is called a code and the guessing procedure is called decoding. In coding theory, mathematical techniques are used to design the signal set and the decoding procedure so that the receiver has a high probability of guessing correctly. Coding theory is used whenever information is transmitted in the presence of noise such as high-speed communication over telephone lines, computer modems, and cellular phones.

Dr. Karlof's research involves generating codes using groups of orthogonal matrices. The mathematics he uses typically results from group theory, linear algebra, and probability.

Dr. David Rolls and **Dr. Susan Simmons** have been awarded 2002 Summer Initiative Awards. One of Susan's research areas of interest is in assessing behavior of mutagenic potency estimators. Mutagenic potency estimation is the quantitative measure of an agent's mutagenic effect. This summer's research initiative will be used to further advance this research and complete a manuscript for publication. David's is interested in modeling data network traffic. Current research is attempting to incorporate additional details, such as long-range dependence, into traffic models and queuing results. One way to do this is to model the traffic volume (say in bytes or packets) for individual source-destination pairs. A network may carry the traffic from a large number pairs. Properties in the aggregate traffic results from properties in the individual pairs. With the Summer Research Initiative grant, David will extend a model proposed in his Ph.D. thesis that shows a connection between individual source-destination pairs with finite lifetimes and long-range dependence in the aggregate traffic. His results have implications for network design and performance considerations.

Following his service to the university from 1999-2002 as director of the campus-wide self-study required by UNCW's accrediting body, the Southern Association of Colleges and Schools, **Dr. Ken Spackman** was named Faculty Associate to the Chancellor effective July 1, 2002. In this half-time position, Dr. Spackman has served as accreditation liaison and worked on faculty-related projects in the Chancellor's office. He has continued to teach one class each semester in the department. As of March 1, 2003, Dr. Spackman was appointed Director of University Planning to manage the university's planning processes and assessment efforts.

Dr. Karan Smith was chosen as a recipient of the 2003 CTE Pedagogy Development Award.

Dr. James Blum
Dr. Edward Boone
Dr. Jeffrey L. Brown
Dr. Yaw Chang,

Math Lab Director

Mr. Paris Faison

Dr. Wei Feng,

Chair

Mrs. Terry Fleck

Dr. Michael Freeze

Dr. Dargan Frierson

Dr. Daniel X. Guo

Dr. Kenneth R. Gurganus,

Undergraduate Coordinator

Dr. Russell L. Herman

Dr. John Karlof,

Graduate Coordinator

Dr. Subramanyam Kasala

Dr. Mark Lammers

Dr. Xin Lu

Dr. Karin Pringle

Dr. David Rolls

Dr. Shiva K. Saksena

Dr. Susan Simmons

Dr. Paul Shotsberger

Dr. Douglas D. Smith

Dr. Karan Smith

Dr. Kenneth Spackman

Mrs. Karen Spike

Dr. Matthew TenHuisen,

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Front row (left to right): Huajun Zhou, Jinsong Chen, Danny Tobin, Kelly Dedeo, Sonia Parker

Back row (left to right): Lin Cheng, Paris Faison, Richard Reiter, Aaron Thatcher, Meng Wu

I would like to give you an update on our graduate program. First of all, we are starting an accelerated program which enables a student majoring in mathematics to receive a Bachelor's and a Master's degree in a five year period. This Bachelors/Masters degree program is designed to provide a student in Mathematics a means to complete the requirements for both degrees in a shorter than normal period of time. The key feature of the program is that with approval from the department, a student can count up to 12 hours of graduate level courses toward requirements for both the BA/BS and the MA/MS in Mathematics. This program is designed for students in the B. A. or B.S. program in Mathematics at UNCW who have completed a minimum of seventy-five (75) and a maximum of ninety-eight (98) credit hours in their undergraduate programs in mathematics, completed a minimum of nine (9) hours of 300-400 level mathematics

or statistics courses, and minimum accumulated grade point average (GPA) of 3.0/4.0 and minimum grade point average (GPA) of 3.0/4.0 on all 300-400 level mathematics or statistics courses at UNCW. To find out more about the program, contact **Dr. Feng, Dr. Gurganus or Dr. Karlof.**

Our graduate program continues to grow. This semester, we have our largest and most diverse class of graduate students that we have ever had. We have nineteen full-time graduate students. Of these eight are women, three are African American, and seven are international students. I would like to introduce these students.

Melissa Barber received her undergraduate degree from UNCW last spring. Her hometown is Clinton, NC. She is presently a graduate teaching assistant (GTA) who is enjoying tutoring in the Mat Lab. She likes being a GTA because it has helped her decide that she would like to teach one day. She has been in Wilmington for five

years and she loves it. She enjoys shopping, going to the beach and playing the piano.

Jinsong Chen is a graduate in civil engineering from Chongqing Jianzhu University in Chongqing, P.R. China. His hometown is in Zunyi, Guizhou Province, P.R. China. He is writing his thesis in statistics under the direction of **Dr. Jim Blum**. He will graduate this semester and plans to enter graduate school in the fall to pursue a doctorate in statistics.

Lin Cheng, who has a degree in Computer Science from Zheng Zhou University, is from Shang Qiu, Henan Province, P.R. China. This is his first semester here at UNCW. He is very experienced at web design and is helping the department on several special projects. He likes sports and music in addition to mathematics.

Kelly Dedeo received her undergraduate degree in mathematics at Bridgewater State College. She is from Danvers, MA. She is a Graduate Teaching Assistant (GTA) who helps extensively with the College Algebra classes and also teaches part-time at CFCC. She plans to graduate this summer and continue teaching at a community college.

Jonathan Duggins graduated from UNCW, Spring 2001, with a major in mathematics. His hometown is Winston-Salem, NC. He is writing a thesis in statistics under **Dr. James Blum**. He plans to graduate this spring and start working on a doctorate in the fall. Jon has already been accepted by the Graduate Program in Statistics at Connell University with full scholarship.

Jennifer Eyl, whose hometown is Burlington, NC, has a major in mathematics from Appalachian State University. She is presently

working on a thesis in group theory with **Dr. Michael Freeze**. She plans to graduate this spring and hopes to find a full-time teaching job at a community college or a four-year college for next fall.

Paris Faison is from Clinton NC and received his undergraduate degree in mathematics from UNCW in December of 2001. He plans to complete his masters in just three semesters. Following the completion of his masters, he plans to find work in the field of statistics or applied mathematics. Paris is also the proud father of a two-year old girl, **Destiny Faison**.

Toi Graham, also, received her undergraduate degree in mathematics at UNCW. She is from Riegelwood, NC. Toi is in her third semester of graduate studies.

Fang Liu has a degree in electronic engineering from Hubei University in her hometown of Wuhan, P.R. China. She had successfully defended her Master's thesis on March 20, 2003. Her thesis is being directed by **Dr. Xin Lu** in the area applied mathematics and numerical analysis. She will start work on her doctorate in the fall and has already got accepted by the Computer Science Department at the University of Kentucky.

Yuan Liu received her undergraduate major in Bioengineering at Huaqiao University, China. Her home town is Wuhan, P.R. China. After working for 4 years at Pfizer in China, she came here to study statistics and wants to apply technology of statistics to the field of pharmaceuticals. She explains that working as a GTA is a good training in oral expression for an international student. She has graded papers for several mathematics professors. She has learned that every professor is different, but each one expects the

grader to grade correctly and consistently.

Patrick Harris obtained his undergraduate degree in mathematics from UNC-Chapel Hill. His home town is Greenville, SC. He plans to attend medical school after completing his masters.

Sonia Parker graduated from Fayetteville State University with honors. She has a minor in physics as well as background in computer science. She is interested in applied mathematics as well as statistics and was able to nurture that interest when she had an opportunity to be an intern with NASA. While at UNCW Sonia has found being a TA and working in the Matlab to very rewarding.

Richard M. Reiter received his undergraduate major in physics and his medical degree from Howard University in Washington, DC. As a GTA, he has enjoyed the opportunity to work with college level students in the Math Lab. He has found the tutoring experience extremely helpful in allowing his successful return to the study of mathematics.

Aaron Thatcher received his B.S. degree in mathematics from UNCW in December, 2002. He is in his first semester as a graduate student and as a GTA.

Danny Tobin, who received an undergraduate degree in mathematics from UNCW, is from Pottsville, Penn. He plans to graduate this semester. His thesis is in the field of Operations Research. His thesis, under the direction of **Dr. Matthew TenHuisen**, deals with an optimization problem of "maximizing satisfaction" when making the teaching schedule for professors. According to Danny, this problem has a large number of variables and constraints, such as what the faculty member wants to teach, class room technology, time of day, number of seats, and number of sections to teach. His future plan is

to attain a Ph.D. in either math or operations research.

Huajun Zhou, also called Angelina, obtained an undergraduate major in Computer Science at Zhengzhou University, China. Luoyang, P.R. China is her hometown. She is very good at web design, computer programming, and math computation. Huajun is writing her thesis under the direction of **Dr. John Karlof** in the area of operations research. She is planning to attend graduate school next Fall to obtain a doctorate in operations research.

Yaxi Zhao has a major in automatic control from Nanjing University of Science and Technology, Nanjing, P.R. China. His hometown is Chengdu, P.R. China. Yaxi has been working as a technology assistant on computer support for the department. He is currently writing his Master's thesis under **Dr. Xin Lu**. Yaxi plans to continue his graduate study in computer science at University of Kentucky.

Meng Wu, who is from Wuhan, China, graduated from Wuhan University, Spring 2002, with a major in Electronic Engineering. As a first-year graduate student, he is very happy coming to the beautiful city Wilmington. Being the captain of their team, he especially enjoys playing soccer with his friends every weekend. He is a GTA who feels great to be helpful to others.

The faculty is enjoying the opportunity to work with such an excellent group of students!



Student News

Meredith Antes, Aaron Thatcher and **Michael Zichy** represented UNCW in the Putnam exam which was held on December 7, 2002.

Meredith Antes, Aaron Thatcher, Melissa Spencer, Kelly Honeycutt and Michael Zichy participated in the Virginia Tech Math contest on Saturday, October 26, 2002.

Paris Faison, UNCW graduate and presently a second-year graduate student, has been awarded the Champion McDowell Davis Scholarship for the 2002-2003 academic year. The recipient of this fellowship is awarded in-state tuition and fees for the academic year.

[Congratulations Paris!](#)

The following students have been selected to participate in the first SAMSI Summer Workshop for undergraduate and graduate students. **Aaron Thatcher, Emily Billing, Sonia Parker, Eddie Bakewell, Ryan Ziemiecki**

Alumni News

Karen Achico '02 and her husband Mark announce the birth of their daughter, Madigan Isabella Achico. Madigan was born on August 9, 2002 at Newport Hospital in Rhode Island.

Julie Shouse Riggins '92, '94 is teaching high school mathematics in Kernersville, NC. She has been teaching there for 8 years and received her National Board Teaching certification in November. On June 14, 2002 Julie and her husband had a baby boy, Caleb.

Jonathan Rowell '95 has successfully defended his PhD thesis at Cornell.

Deidre Suggs and Dennis Wood were married on July 13, 2002. Deidre is currently teaching mathematics at E.A. Laney High School in Wilmington.

Lori Underwood '02 is teaching seventh grade math at Leland Middle School.

In Memorium

William Ray Collins 1943-2002

William Ray Collins was a member of St. Andrew Covenant Presbyterian Church where he taught the Evans Bible Class for over 15 years. He was a veteran of the U.S. Army, and was owner and operator of Collins Mercantile Company. Mr. Collins was an active volunteer and served as Cub Scout Leader of Pack 240 at College Park School for over 20 years. He was an avid fisherman and especially enjoyed fishing with his grandson, Austin. He graduated from Wilmington College in 1965 with a B. A. in history and a minor in mathematics.

Congratulations Graduates!



Spring 2003 Undergraduate Students(left to right): Meredith Antes, Melissa Spencer, Ellen Faucette, Matthew Davis, Chrystal Brinson, Susan Hobgood, Jeniffer Parker, Kessi Lee, Allen Cunningham, Randi Morton, Jennifer Seaman

Not pictured: Natalie Alimond, Tosha Burchette, Scott Essick, Kelly Honeycutt, Josepg Kitchens, Joshua Loftin, Sylvia Lopes, Jarret Nester, Kelly Rodriquez, Jessica Venlet.

Fall 2002 Undergraduate Students: Brandon Hart, Ann Shields, Aaron Thatcher



Spring 2003 Graduate Students(right to left): Jonathan Duggins, Jennifer Eyl, Paris Faison, Fang Liu (not pictured)

Fall 2002 Graduate Students: Emily Johnson

Summer 2002 Graduate Students: Jody Hinson, Ying Wang

Student Awards

The following student awards were presented at graduation in May 2003.

The Adrian D. Hurst Award

The Adrian D. Hurst Award goes to the junior or senior mathematics major with the highest GPA who has done all course work at UNCW.

This year's recipient of the Adrian D. Hurst Award was **David A. Bristol**. David is pursuing a Bachelor of Arts in mathematics.

Barbara Pridgen English Memorial Award

The Barbara English Award goes to the graduating senior who has the highest GPA. This year's recipient is **Melissa Gayle Spencer**.

At an awards ceremony in April the following students were named as departmental scholarship winners.

Adrian D. Hurst Scholarship

Stephanie Herring is a junior and is enrolled in the five year Bachelor's/Master's program
Matthew Psioda is seeking a B.A. in mathematics with teacher licensure. Matthew has a strong interest in number theory and is committed to a teaching career.

Fred Toney, Jr. Scholarship

Michael Zichy is a junior pursuing a double major in mathematics and philosophy.

J. Marshall Crews Award

Samuel Schauf is a senior mathematics major. He will graduate in the fall but plans to pursue graduate studies in the future.

Carl Nelson Award

Melissa Humphrey is a senior pursuing a double major in statistics and biology. Jordan plans to pursue graduate studies in either medicine

or biological sciences after graduation.

Bookstore Scholarships

Camden Connelly is a sophomore working towards a double major in mathematics and education.

Catrina Parker is a junior working towards a B.A. in mathematics with teacher licensure.

These awards are to honor outstanding junior or returning senior in the Mathematical Sciences Department. Selection is made by a vote of the mathematical sciences faculty based on the students' academic achievements, extracurricular activities, and a short paper on the subject of the relationship between the students' education and career plans.

Pi Mu Epsilon Induction

Pi Mu Epsilon is the honorary national society for mathematics founded in 1914. Its purpose is to promote and recognize mathematics scholarship among students. The following students were inducted in an awards ceremony in April.

Cody Adams, Ron Arslan, Shannon Gunter, Stephanie Herring, Kelley Honeycutt, Randi Morton, Catrina Parker

High School Math Contest

The 24th annual High School Mathematics Competition was held on April 2, 2003. Fourteen regional schools participated in the contest. The students honored in this year's contest with a trip to the state were:

Division I: Sonny Xi (Hoggard), **Ying Liu** (Hoggard), **Darryl Dewitt** (Hoggard), **Weston Monroe** (Hoggard), **Scott Boone** (Hoggard), **Ryan Kirkdendall** (Scotland), **Lindsey Allred** (New Hanover)

Division II: Cory English (Topsail), **Pierre Maitre** (Cape Fear Academy I), **Sean Von Lembke** (Northside High School I)

Team honors were awarded to the following division I and II schools.

Division I: John T. Hoggard, New Hanover High School, Scotland High School

Division II: Topsail High School, Cape Fear Academy I, Lejeune High School I

For information about next year's contest please contact Dr. John Karlof, contest director, at (910) 962-3384 or karlof@uncw.edu.

