Chair's Corner

After the large number of retirements of the last few years, the pace has slowed with two major exceptions:

Harvey Blau retired in January of 2017 and Hamid Bellout in June of 2017. Harvey came to NIU in 1969 and has been a faculty member for 47 years. An appreciation of Harvey’s contribution to the department by another long-serving individual, Linda Sons, appears later in this newsletter. I am happy to report that both Linda and Harvey retain offices in the department and Harvey is expected to teach on a part-time basis in the Fall 2017 semester.

Hamid Bellout joined the department in 1986 and took over as AIC director in 2000. An appreciation of Hamid’s contribution to the department appears later in this newsletter.

In the Fall of 2016, Dr. Jose Yunier Bello Cruz joined the department. Dr. Bello Cruz works in numerical optimization and comes to the department from the Federal University of Goiás in Brazil. Yunier obtained his PhD from Instituto Nacional de Matemática Pura e Aplicada in Rio de Janeiro and has previously held a post-doctoral fellowship at the University of British Columbia.
Another new arrival is Paul Stevenson who joins the department as an educator licensure coordinator. Paul joins Renee Olsen who continues as coordinator. Previously, Paul taught at Naperville High School where he served as department lead for many years. Paul brings an impressive level of expertise to our teacher certification program.

The department also welcomes a new instructor: Adannah Duruoha-Ihemebiri who obtained her MS from the department in 2016.

The department, once again, had a booth in the university’s STEMfest, which was held in October. The department has exhibited at the festival for the last 6 years; since it started, in fact. Puzzles always make our booth one of the most popular, but this time students from the Math Club had visitors rolling dice and recorded the scores on a histogram. I am happy to report that the distribution of scores was in accordance with the theoretical probabilities.

The Spring also saw the department hosting the annual ICTM contest for high school students. A prominent role in the hosting team was played by Cindy Stecher who told me that she had taken part in every contest since the program started. It is always good to meet some of our graduates who are coaches with the various teams.

This Summer, the department is constructing a lightboard to produce short, five-minute, YouTube-like videos to work as tutoring aids for calculus. This consists of a large sheet of glass; the instructor stands behind it and writes on the glass while explaining the topic. The camera is on the opposite side of the glass from the instructor and sees what is written as a mirror image. This is then rectified by a computer program so that the writing appears normal. The effect is remarkable: It appears that the instructor is writing in the air. I would suggest that you look at the department’s website to see a sample of these videos (www.math.niu.edu).

We want to stay in touch with our graduates, so please write to me with news and views. The Department also has a Facebook page, https://www.facebook.com/Northern-Illinois-University-Mathematical-Sciences-165834626819079/?ref=aymt_homepage_panel.

Please like the page, check often, and post information about your doings. --- B. Harris
AIC Activities

Consistent with the math department goal of being an integral participant in the regional high tech economy, this last summer it teamed up again with local industries. These partnerships offered students internships that provided them a meaningful learning experience and a chance to apply their knowledge and expertise to solve significant problems of interest to these industries.

Specifically:

1. Daniel Stoertz and Douglas MacClure are interning at a marketing/research company Inte Q. During their internship, they will participate in analyzing so called “Big Data”. Inte Q’s motto is ‘We Create Customer Love’. Daniel and Douglas are looking forward to contributing to that goal.

2. Oday Hazaimah will intern with a civil engineering consulting firm in Edmonton, Alberta (SMA Consulting). His project will involve models of construction projects. Specifically, the use of Markov chains and reliability analysis to evaluate construction infrastructure projects.

3. Paramahansa Pramanik is interning at IMO (Intelligent Medical Objects), which is a company in the medical informatics field. Their motto is ‘IMO Makes Sense Out of Complicated Clinical Information’. Paramahansa will use his knowledge of sophisticated mathematical tools to extract useful information from the large data sets that IMO has.

Our Newest PhDs

Arnab Maity (August, 2016) wrote his dissertation, *Bayesian Variable Selection in Linear and Non-Linear Models*, under the direction of Professor Sanjib Basu. He now holds a post-doctoral position at Texas A&M.

Andrew Wang (December, 2016) wrote his dissertation, *Constrained and Coxeter Table Algebras*, under the direction of Professor Harvey Blau. He now holds a full-time tenured instructor position at Kishwaukee College.

Sougata Dhar (August, 2017) wrote his dissertation, *Lyapunov-Type Inequalities and Applications to Boundary Value Problems*, under the direction of Professor Qingkai Kong.

Khulan Luvsandash (May, 2017) wrote her dissertation, *Change Point Detection for Dependent Spatial-temporal Data*, under the direction of Professor Nader Ebrahimi.

Erina Paul (May, 2017) wrote her dissertation, *Approximate Bayesian Computation in Nonparametric Bayesian Models*, under the direction of Professor Sanjib Basu. She will be a visiting assistant professor at Grand Valley State in Michigan.

The 32nd Annual NIU Math Contest

The 2017 Northern Illinois University Mathematics Contest took place on March 1st. First place, with the prize of $150, for the second year in a row was taken by Rebecca Dziubla, a senior Mathematical Sciences (Mathematics Education) major from Roselle. Jeremy Simonson, a senior Electrical Engineering major from DeKalb, placed second, and won $100. Third place, with the prize of $75, was won by Matthew Swed, a sophomore Mathematical Science (Applied Mathematics) major from Paw Paw. The winners were recognized at the Department of Mathematical Sciences' Award Ceremony and Reception on April 23rd.

The annual Northern Illinois University Mathematics Contest has a format where freshmen
and sophomores have a fair chance to compete with juniors and seniors. The underclassmen have fewer restrictions on their choice of problems to attempt. The contest is open to all full-time undergraduates at NIU. Each contestant turns in solutions to a choice of six out of eleven problems. Topics this year ranged from logic puzzles, algebra and geometry through calculus, differential equations, and linear algebra. Professors Michael Geline, Y. C. Kwong, and Gleb Sirotkin supervised the competition.

The following geometric problem was a popular choice among the contestants:

\[ \text{Without using any knowledge about the decimal expansion of the number Pi, show that } 3 < \pi < 4 \text{ holds. You can use geometric ways to introduce Pi for this problem.} \]

Here is a linear algebra problem from the contest:

Suppose \( A \) and \( B \) are 3x3 matrices such that \( \det A = 2016 \), \( \det B = 2017 \), and the matrix products are equal \( AB = BA \). Show that there exists a 3x3 matrix \( C \) such that \( CAB = I \) - the identity matrix. Moreover, for every 3x3 matrix \( D \) we will have equation of matrix products \( C(BAD) = ABCD \).

For more information contact:
Gleb Sirotkin (815-753-6734, gsirotkin@niu.edu)

New Hires

The department welcomed four new hires during the past year:

Jose Yunier Bello Cruz is a new assistant professor. He works in Numerical Optimization. A native of Cuba, he joins us from Federal University of Goiás in Brazil.

Paul Stevenson joined us in the Fall of 2016 as a second educator licensure coordinator. Previously, Paul had taught and served as department head at Naperville High School.

Adannah Duruoha-Ihemebiri also joined the department in the Fall. She is a graduate of the department’s MS program and has taught CHANCE and college algebra classes.

Barbara Gonzalez joined the Division of Statistics as the new director in the Summer of 2017. She previously taught at Hofstra University in New York.

The department is very proud of the new arrivals and wishes them well.

Departures

Jonathan Kugel joined the department in 2013 as an instructor. He left at the end of the Spring 2017 semester to take up a position in his native Minnesota.

Kudos

The department added another winner to its long list of recipients of the Excellence in Undergraduate Instruction Award. Paul Dawkins was one of the 2017 winners.

This award is initiated by students and the nomination is made by students who collect testimonials and letters of support for the candidate. Paul’s letters of support make an excellent case. To quote a few comments: “(Professor Dawkins) sat and helped me with proofs multiple times, never getting frustrated or giving up on me.” “Dr. Dawkins’ office hours made us feel like it was the norm to stay and ask for help.” “Dr. Paul Dawkins
took difficult content and broke it down in a way that made sense to me.” “It is very easy to tell that Dr. Dawkins enjoys teaching, and this positive attitude helped me stay engaged in his lectures.”

Harvey Blau Retires

Professor Harvey Blau retired from NIU effective January 1, 2017. Harvey came to NIU in 1969 upon completion of his Ph.D. at Yale University. While completing his Ph.D., he served as an Assistant Professor from 1967 to 1969 at Southern Connecticut State College. He became a full professor at NIU in 1986. In 1993, he received the University Excellence in Undergraduate Teaching Award, and in 2011 was named an NIU Presidential Teaching Professor.

Many alumni will recognize Harvey as their professor for Math 353 Axiomatic Geometry, a course he taught 45 times and for which he wrote a textbook first published in 2003. Harvey also frequently taught linear algebra, abstract algebra, and calculus. He worked with mathematics education specialists in the department on coursework for students seeking the masters in middle school mathematics. He served as dissertation director for 8 Ph.D. students and co-director for another.

Harvey served the Department as Director of Undergraduate Studies from 1977 to 1980 and as Faculty Advisor from 1991 to 1997 for the Math Club/Pi Mu Epsilon/MAA Student Chapter. He founded the NIU Undergraduate Math Contest.

As an algebraist, Harvey's initial research work was primarily in group theory, while more recently he has done extensive study of table algebras. He has authored or co-authored over 50 journals articles in algebra and has made a large number of presentations of his research work including many in Israel, Germany, England, and China. He has also served widely as a referee of articles submitted for publication in major mathematics journals. A special research conference in his honor was held in China in May 2017.

While Harvey will likely continue to do mathematics for some time, his caring attitude for students and colleagues, his wise counsel in departmental affairs, his readiness to serve as needed, and his devotion to mathematics and teaching will be greatly missed in the Department.

Well done, Harvey, and much happiness in retirement!

Hamid Bellout Retires

Professor Hamid Bellout is best known to many former graduate students as the Director of the (AIC) Applications Involvement Component of the Ph.D. He took up this position in 2000 and held it until his retirement in June of 2017.

Hamid came to NIU in 1986 following a Ph.D at Purdue University under the supervision of Dr. Avner Friedman who is one of the foremost applied mathematicians of his generation. Hamid worked closely with Fred Bloom and Jindrich Necas on a variety of topics related to applied mathematics and partial differential equations. In particular, he worked on equations arising from fluid mechanics, including the famous Navier-Stokes equation. It is
appropriate that the work as fluid mechanics was supported by a grant from the Office of Naval Research. Latterly, Hamid and Fred Bloom have worked on problems arising from the theory of nanotubes. The collaboration over many years of Hamid and Fred resulted in a string of papers and two books.

The department was fortunate at this time to include Jindrich Necas. Jindrich enjoyed an international reputation (he served on the prize committee for the Fields Medal, the mathematics equivalent of the Nobel prize). His collaboration with Hamid and Fred was exceptionally fruitful.

During Hamid’s time as AIC director, he arranged and oversaw the internships of around 40 Ph.D. students and expanded the program to include many new industrial contacts. To name a few: Abbott Labs, Toshiba Medical Systems, Hamilton Sundstrand, Intelligent Medical Objects, Inte Q, Baxter Labs, and Motorola.

Hamid plans to move to Arizona where he will continue with his consulting activities.

**News From You**

**Chris Simokat (BS ‘10)** is Vice President and lead data scientist at Citi. He leads an integrated team of data scientists and analytical tool engineers inside Citi’s Architecture and Technology Engineering’s Big Data and analytics Engineering Organization.

**Sean Connor (BS ‘07)** teaches math and coaches basketball at DePaul College Prep (formerly Garden Tech) in Chicago.

**Jennifer Smith (formerly Nelson) (BS ’00/MS ‘02)** who is a senior analyst at TEGNA and her husband, **Donald (BS ’99)**, announce the birth of their daughter, Allison Claire, born July 21, 2016.

**Mary Aydt (formerly Wrona) (BS ’66)** retired from teaching and has kept busy in her retirement by teaching Math and English as a second language at Triton College and Elgin Community College. She enjoys travel and occasionally substitute teaches.

**James Hall (BS’58)** earned his master’s from Harvard University, and then his PhD in 1965 from the University of Wisconsin. His professional interests include differential equations, teaching with computer technology, and the history of mathematics. Hall was the 1989 Henderson lecturer at Westminster College with the presentation of “Tilings in Science and Art.” He is now retired from Westminster and is enjoying the transition from professor to poet.

**Dr. Jerry Lee Hathaway (MS ’59)** lives in Connersville, IN, and is a retired educator. He obtained his Ph.D. in 1970 from Indiana State University.

**Bob Bakshis (BS ’70)** writes:

> Just a note to let you know that I have entered a state of “sort of” retired. Like many, when I graduated from NIU in 1970 with a BS in Mathematics, I didn’t know what direction my career would take. I didn’t know exactly what I was going to do when I grew up. In 1972, I received an MS in Sociology from ISU and began a career in education that would span over four decades. I also discovered that I had a unique blend of skills. I liked to tell people that as a mathematician, I was a pretty good sociologist, and as a sociologist, I was an excellent mathematician. What I did have were the skills to recognize and quantify problems. I like to see myself as a “practicing sociologist with strong analytic skills.” Over my career, I have made extensive use of the SPSS and SAS statistical packages. I have used my quantitative and qualitative skills in the institutional research offices at College of DuPage and Triton College. When I earned my Ed.D. from NIU in 1982, I was able to do my own analytic work. For the dissertation, I...
used SPSS Discriminant Analysis to develop a model to predict first-time community college student persistence. Having a strong analytic skill set made the dissertation process a much easier project that most of my colleagues experienced. I went on to serve as Director of Sales Research for World Book Educational products, and as a manager of Analytic Products and Development with Information Resources (a major market research company). In addition, I have done a little analytic consulting on the side for schools, park districts, and communities. This fall, I received a service award from the College of DuPage in recognition of 40 years of service to the college. Shortly after joining the Institutional Research Office at COD in 1976, I also started teaching there part-time. Coupled with four years on the Sociology faculty of ISU and part-time work at Illinois Central Community College, I have 44 years of teaching at the college level. During that time, I have taught Introduction to Sociology; Social Psychology; Statistics, Marriage and the Family; Social Problem; Death, Dying, and Bereavement; and Medical Sociology. I continue to teach at College of DuPage. I finished my full-time career when I retired from TSA in 2014. I was a supervisor in passenger operations at O’Hare Airport. In this position, I made extensive use of my sociology skills managing large checkpoints with as many as 50 officers and thousands of passengers every day. The airport was a dynamic environment and the work was quite a challenge. On the stories I could tell! So, looking back at what I wanted to be when I grew up, I guess the answer is – retired.

Rebecca Krueger (BS ’12) writes:

After graduating, I got a job at Auburn High School in Rockford for the last quarter of the year in 2012-2013. I was teaching students only 4 years younger than me, as I had graduated a semester early! Then I moved back home to teach at the current school I am at, a charter school near Midway Airport in Chicago. It is a brand new school, and I actually helped to get it started as a founding member. We are now a full high school, but our first year we started off as grades 6-9 and every year we would add a high school grade and drop a middle school grade. I began with 6th grade, and ended up teaching those same students in 6th, 7th, and 8th grade. This year, I have 10th grade geometry, but I will have my students again next year when they are sophomores, hopefully! This school and Auburn also have both taught me a lot about teaching and students. I am continuously growing to become the kind of teacher I want to be! Go Huskies!

Bernadette Becker (formerly Gucwa) (BS ’54) remained in touch with her freshman advisor, Dr. Clarence Hardgrove, who later chaired the department. Ms. Becker shared part of the letter that she received from Clarence Hardgrove in 1991:

My first job (1932) was at a salary of $90/month; my first college job (1950) was at a salary of $900/month; my last job (1977) was at a salary of $2,700/month. My first speech to a non-academic group (1934) was at their Women’s Club request on the topic “Should Married Women Teach?” I’ve been urging that women have more rights since then. My first name is confusing to some. A 6-year-old friend of mine told an adult male that he had a girl’s name. His name was Clarence. My first year in college brought the first talking pictures. My friends and I did without lunch during those depression years to see a few, worth every morsel! One thing is sure, I have been blessed with great students and friends like you. I wish you well.

Sincerely, Clarence Hardgrove

Craig R. Ortiz (BS ’95) was recently named chair of the mathematics department at Morris Community High School, where I have taught for 21 years. I am currently working toward my Doctor of Education (Ed.D.) in Educational Leadership at the University of St. Francis, and I will graduate in May 2018.
Happy Events

The newsletter is happy to report on three births and one wedding in the department during the past year.

Mr. Mike McCabe and his wife, Yaneth, announce the birth of their second daughter, Elena McCabe, on October 1, 2016.

Mr. Brian Veitch and his wife, Casey, announce the birth of their son, Connor Louis Veitch, on March 11, 2017.

Mr. Mike Mutersbaugh and his wife, Gianna, announce the birth of their second son, Aaron Michael Mutersbaugh, on May 27, 2017.

Professor Hamid Bellout and his fiancé, Beth, got married on April 29, 2017, in Sedona, AZ.

Congratulations to all!

The 37th Annual ICTM High School Math Contest

DeKalb, Ill.—The NIU Department of Mathematical Sciences hosted a regional mathematics competition from 9 a.m. to 3 p.m. Saturday, Feb. 25 at DuSable Hall and the Carl Sandburg Auditorium at the Holmes Student Center.

Close to 400 students from 15 high schools participated in the Illinois Council of Teachers of Mathematics (ICTM) Regional High School Mathematics Contest.

Individual and team competitions were held in a number of subject areas, including algebra, geometry, and pre-calculus. Prizes were awarded to both individuals and teams in each subject, and also to the best all-around performing schools. The winners automatically qualified to compete in the state championship May 6, 2017.

Participating high schools include: Antioch, Crystal Lake Central, Crystal Lake South, Grant Community, Grayslake Central, Grayslake North, Kaneland, Lakes Community, Metea Valley, Neuqua Valley, Oswego, Oswego East, St. Charles East, Waubonsie Valley, and West Aurora High School.

This will be the 37th year of the statewide ICTM High School Mathematics Contest, and NIU has hosted all but one of these ICTM regional events.

“We’re thrilled to again host this exciting event. The participating teams represented close to 40,000 high school students,” says Anders Linnér, director of the ICTM contest hosted by the Department of Mathematical Sciences. “These academically talented kids, also known as mathletes, were given a chance to represent their school as part of a team. I recall chatting with one of our proctors that competed in this event when she belonged to her high school’s math team, and she said it changed her life.”

As is tradition, the chair of the Department of Mathematical Sciences, Bernard Harris will be handing out the awards at the end of the ceremony scheduled to start at 2:00 p.m. at the Carl Sandburg Auditorium.
Congratulations on the 25th anniversary of the class of 1992. Here is a listing of the class and their current hometowns. If you can update any information, we would appreciate your help.

Mr. James W. Adeyemi, Sykesville, MD
Mrs. Christiane V. Angelo, Troy, MI
Ms. Allison R. Arkin, Skokie, IL
Mrs. Jaclyn A. Berry, Aurora, IL
Mr. Dennis C. Blahunka, Loves Park, IL
Mr. Eugene J. Blome, Round Lake, IL
Mr. James B. Bouquet, Algonquin, IL
Ms. Susan P. Boutjes, Dixon, IL
Mr. Rick A. Cazzato, Darien, IL
Mr. Rih C. Chao, Cerritos, CA
Mrs. Sheila A. Contreras, Barrington, IL
Dr. Jonathan Cornick, Brooklyn, NY
Mr. Brian W. Dean, Kenosha, WI
Mrs. Tonya A. Dieken, Colfax, IL
Ms. Mai-Trang H. Dinh, Bartlett, IL
Ms. Diane J. Dipietro, Naperville, IL
Mr. Michael D. Disbrow, Lincolnshire, IL
Ms. Maryanne Dryja, Austin, TX
Mr. John A. Ebenroth, O Fallon, MO
Ms. Susan M. Erdal, Waukegan, IL
Mr. Ning Guo, Buffalo Grove, IL
Ms. Jennifer M. Heyer, Russiaville, IN
Mr. Jeffrey R. Hodgen, Normal, IL
Mrs. Grace C. Hornback, Barrington, IL
Mr. John G. Huizenga, Nevada, MO
Ms. Janice L. Hurley, Middletown, OH
Mr. F. Keith Iddings III, Crown Point, IN
Mr. Thomas B. Janis, Oswego, IL
Mrs. Christina A. Jarvis, Chicago, IL
Mr. Chad G. Johnson, Rockford, IL
Mrs. Christine J. Keigher, Saint Charles, IL
Dr. Steven J. Kifowit, Oswego, IL
Ms. Rina A. Krygier, Westchester, IL
Mrs. Lea C. Kuhn, Channahon, IL
Mr. Gregory L. Kurth, Geneva, IL
Mr. Eric Lewis, Chicago, IL
Mr. Michael E. Lindstrom, Lake Villa, IL
Mr. Thomas J. Losniecki, Big Rock, IL
Ms. Suzy D. Mahoney, Cedar Park, TX
Mr. Douglas L. McDuff, Rockford, IL
Mr. William P. McMahon, DeKalb, IL
Mrs. Deborah L. Morrow, Ladd, IL
Mr. Lance D. Mueller, Streamwood, IL
Mr. Sanjay K. Muni, Malvern, PA
Dr. Douglas Mupasiri, Cedar Falls, IA
Ms. Marie S. Newberry, Tinley Park, IL
Ms. Michele R. Norton, Madison, NJ
Mr. Michael P. O'Connor, Lake Zurich, IL
Mrs. Christine O'Neill-McManus, Lombard, IL
Ms. Cheryl A. Penn, Plainfield, IL
Mrs. Natalie J. Rhode, Belvidere, IL
Dr. Fernando Rincon-Tellez, Greenwood, SC
Ms. Laura R. Schletz, Tampa, FL
Mr. Sean T. Scotty, Dundee, IL
Mrs. Laura L. Shaughnessy, Arlington Heights, IL
Ms. Michelle Smith, Chicago, IL
Ms. Denise K. Sweeney, Scottsdale, AZ
Mrs. Mary J. Teddy, Green Bay, WI
Ms. Kelly M. Thomason, Gurnee, IL
Ms. Diane M. Thornton, Saint Charles, IL
Mrs. Natalija B. Todorovic-Shaw, Elmhurst, IL
Mr. David Vandermeulen, Aurora, IL
Mrs. Dawn M. Venturacci, Watsonville, CA
Mrs. Michelle R. Wilhelmi, Elgin, IL
2016 Departmental Awards

The 39th annual Award ceremony was held on April 23, 2017, in the Holmes Student Center Skyroom. At the reception, Department Chair Bernard Harris and Interim Director of Statistics Alan Polansky presented the following awards and scholarships.

**Incoming Freshman Scholarship**
Eli Brottman
Jessica Myjak

**Clarence Ethel Hardgrove Scholarship**
Taz Kuster
Karissa Olsen
Bianca Spalla

**Joseph C. and Marion E. Huber Memorial Scholarship**
Kyle Seebach
Matthew Swed

**Michael J. Krowka Scholarship**
Kathryn Ekwall
Isabel Stone

**Mathematical Sciences Scholarship Award**
Ji Hoffman

**Gail Masters Gallagher Memorial Scholarship**
Christine Anderson
Jennifer Burress
Eric Rapp

**Dale G. Jungst Memorial Scholarship**
Nicholas Kristofer
Taz Kuster
Sean Smart

**Carol J. Feltz Scholarship**
Jessica Bishop

**Allstate Actuarial Scholarship**
Lauren Anglin

**NIU Math Contest**
Rebecca Dziubla 1st Place
Matthew Swed 3rd Place

**M.M. Wheeler Scholarship**
Rebecca Dziubla
Patrick Nerja

**M.M. Wheeler Teaching Award**
Jessica Benavides
Catherine Dremel
Jaclyn Fowler

**Dorothy & Glenn Erickson Scholarship**
Christine Anderson

**Donald R. Ostberg Award**
Daniel Stoertz

**Certificate of Teaching Excellence**
Nicholas Foil

**Outstanding Graduate Student Award**
Todd Buretz
Christopher Purdy
Daniel Stoertz

**Honorable Mention Undergraduates**
Atakora Agoro
Guillermo Benitez
Catherine Dremel
Alexandra Elias

**Honorable Mention Graduates**
Rexford Akakpo
Erin Albright
Amy Elbrecht
Muddasir Khan

**Certificate of Merit Undergraduates**
Shawn Driscoll
Alexandra Elias
Dana Kallas
Adam Lightner
Kaleb Lipinski

**Certificate of Merit Graduates**
Anthony Bartman
Kakoli Bhuyan
Elijah Bodish
Todd Buretz
Tatiana Dimitrieva
Philippe Dovoedo
Heather Flynn
Kaitlyn Monte
Jacob Pratscher
Satabdi Saha
Daniel Stoertz
Thomas Ventimiglia

Allstate Actuarial Scholarship
Lauren Anglin
Michael Jage
Norma K. Stelford Memorial Scholarship
Lauren Anglin  Michael Gorski
Samuel Meier  Isaac Truckenbrod
Alexander Youman

Chair’s Award
Samuel Meier  Alexander Youman

Director’s Award
Courtney Hanson

Dean’s Award
Noah Engstrom (Math)  Isaac Truckenbrod (Stats)