





*Department of Mathematical Sciences  
Academic Awards Ceremony*

*Thursday, 25 May 2017*

*1030 a.m.*

*Thayer Hall, Room 120*







## Prior-Year Winners of The Mathematical Contest in Modeling (MCM) and Interdisciplinary Contest in Modeling (ICM)

The 2017 Interdisciplinary Contest in Modeling

**Outstanding Winner - Advisor Jong Chung**

*Cadets: John McCormick, Matthew Yuan, Zachary Zimmerman*

The 2016 Interdisciplinary Contest in Modeling

**Outstanding Winner - Advisor Jong Chung**

*Cadets: John McCormick, Matthew Yuan, Zachary Zimmerman*

The 2009 Interdisciplinary Contest in Modeling

**Outstanding Winner - Advisor Kristin Arney**

*Cadets: Sean Clement, Timothy Newlin, Joseph Lucas*

The 2006 Interdisciplinary Contest in Modeling

**Outstanding- Advisor Randal Hickman**

*Cadets: Adam Seybert, David Ryan, Nicholas Ross*

The 2004 Interdisciplinary Contest in Modeling

**Outstanding- Advisor Elizabeth Schott**

*Cadets: Dennis Glancy, Jeffrey Glick, Daniel Kang*

The 2003 Interdisciplinary Contest in Modeling

**Outstanding- Advisor Michael Johnson**

*Cadets: Mike Powell, Tate Jarrow, Kyle Greenberg*

The 2002 Mathematical Contest in Modeling

**Outstanding- Advisor David Sanders**

*Cadets: Mike Powell, Colin Landon, Tate Jarrow*

The 2001 Mathematical Contest in Modeling

**Outstanding- Advisor Donovan Phillips**

*Cadets: Matthew Adams, Nicholas Howard, Zachariah Miller*

The 2000 Mathematical Contest in Modeling

**Outstanding- Advisor David Bailey**

*Cadets: Kevin Arnett, Jonathan Gibbs, John Horton*

The 1993 Mathematical Contest in Modeling

**Outstanding- Advisor Charles Clark**

*Cadets: John Petty, Ray Eason, Jon Rufenacht*



*To Our Esteemed Guests and Awardees,  
Thank you for joining us on this special occasion as  
we recognize cadets' outstanding academic  
achievements. The mathematics program at the  
United States Military Academy is extremely  
challenging; therefore, each award is quite an  
accomplishment. During the ceremony we will  
recognize students for their exemplary performance  
throughout their four years at West Point and those  
that achieved the highest average in math courses  
during the Spring Term.*

*Congratulations!*



## ***DISTINGUISHED CADET AWARDS***

### **~ First Class Academic Excellence Award ~**

This award is based on academic excellence in mathematics courses taken by First Class Math/Operations Research Majors. The recipient of this award is presented with a plaque and certificate.

**Cadet Nicolette Jimenez, Class of 2017  
Mathematical Sciences with Honors**

**Cadet Jake Schmitz, Class of 2017  
Mathematical Sciences and Network Science Minor**

### **~ Second Class Academic Excellence Award ~**

This award is based on academic excellence in mathematics courses taken by Second Class Math/Operations Research Majors. The recipient of this award is presented with a plaque and certificate.

**Cadet Nolan Hedglin, Class of 2018  
Mathematical Sciences and Physics**

**Cadet Hannah Whisnant, Class of 2018  
Mathematical Sciences and Computer Science**



**HERTZ SCHOLAR**

CDT Richard C. Staatz, Jr., 1984  
CDT Andrew M. Fedorchek, 1994

**TRUMAN SCHOLAR**

CDT Zachariah R. Miller, 2002

**OLMSTEAD FOUNDATION**

CDT Henry W. Bennett, 1983  
CDT David C. Flemings, 1984

**GEM FOUNDATION, Ph.D.  
ENGINEERING FELLOWSHIP**

CDT Samuel D. Ellis, 2012

**EAST-WEST SCHOLAR**

CDT Robert Delaney, 2013

**DRAPER FELLOWSHIP**

CDT Austin Herrling, 2016  
CDT Adam Kratch, 2017  
CDT Bryce Wilkins, 2017

**CHURCHILL SCHOLAR**

CDT Lisa Jones, 2016



**MATHEMATICS & OPERATIONS RESEARCH SCHOLARS  
(1983 – 2017)**

**RHODES SCHOLAR**

CDT Zachariah Miller, 2002  
CDT Joshua Lospinoso, 2009  
CDT Evan Szablowski, 2013  
CDT Calla Glavin, 2014  
**CDT Christian Nattiel, 2017**

**MARSHALL SCHOLAR**

CDT Raymond L. Eason, Jr., 1994  
CDT Hans Joseph Pung, 1995  
CDT Ian Mauldin, 2016

**ROTARY AMBASSADORIAL SCHOLAR**

CDT George Bradley Wilson, 2008  
CDT Jonathan David McCann, 2010  
CDT Iain Cruickshank, 2010  
CDT Ryan Brod, 2011  
CDT Robert J. Baxter, 2012  
CDT Nicholas Pappas, 2015  
**CDT Alexandra Bell, 2017**

**NATIONAL SCIENCE FOUNDATION FELLOW**

CDT Andrew M. Fedorchek, 1994  
CDT Malcolm Haynes, 1998  
CDT Joshua Lospinoso, 2009

**FULBRIGHT SCHOLAR**

CDT Jeffrey Daniel Glick, 2005  
CDT Lisa Jones, 2016



~ **MAJ Theodore Vincent and LT Lila Blanche Hromadka**  
**Memorial Award** ~

This award is presented to the First or Second Class Cadet who demonstrates greatest potential for future studies in mathematics or operations research field. This award is made possible through a donation from faculty member Dr. Theodore Hromadka and his wife Laura in honor of Dr. Hromadka's parents Major Theodore Vincent Hromadka and Lieutenant Lila Blanche Hromadka, both former Army service members. The recipient of this award is presented with a cadet bust and is memorialized on a plaque prominently displayed in the Department of Mathematical Sciences.

**Cadet Adam Kratch, Class of 2017**  
**Mathematical Sciences with Honors and**  
**Electrical Engineering with Honors**



~ **General of the Army Omar N. Bradley Award**  
**for Excellence in Mathematics Electives** ~

The General of the Army Omar N. Bradley Award is presented to a cadet for excellence in Elective Mathematics studies. This award, established in 1974, is also presented at the Graduation Awards Convocation where the cadet is given a wristwatch in the name of Mrs. Raymond W. Toms as a memorial to her husband Lieutenant Colonel Toms, Class of 1925. The recipient of this award is memorialized on a plaque that is prominently displayed in Thayer Hall.

**Cadet Bryce Wilkins, Class of 2017,  
Mathematical Sciences with Honors and  
Network Science Minor**

## ***TOP GUN AWARDS SPRING TERM***

<u><b>COURSE TITLE</b></u>	<u><b>RECIPIENT(S)</b></u>
Mathematical Modeling and Introduction to Calculus (MA103)	Bethany Nunnery
Single Variable Calculus (MA104)	Daine Van De Wall
Calculus II (MA205)	Ross Poulin
Probability and Statistics (MA206)	Peter Meyers Dean Smith
Advanced Probability and Statistics (MA206X)	Aidan Doyle
Advanced Multivariable Calculus (MA255)	Matthew Arnold Joseph Onorati Trevor Parker
Vector Calculus and Ordinary Differential Equations (MA363)	Madeleine Schneider
Engineering Mathematics (MA364)	Benjamin Baumgartner
Advanced Engineering Mathematics (MA364X)	Bradley Whitehall
Applied Engineering Math (MA366)	Jesse Palmer
Applied Engineering Math (MA366X)	Daniel Brown
Math for the Social Sciences (MA367)	Jack Rawlins
Linear Algebra (MA371)	Madeleine Schneider
Introduction to Discrete Math (MA372)	William Brooks
Chaos and Fractals (MA385)	Abby Vorhaus
Mathematical Analysis I (MA387)	Stuart Core
Sabermetrics (MA388)	Brandon Lee
Mathematical Modeling (MA391)	Joseph Schlessinger Francis Whalen
Combinatorics (MA462)	Maxwell Bassett
Applied Algebra with Cryptology (MA464)	Joseph Schlessinger
Mathematical Statistics (MA476)	Stuart Core
Linear Optimization (MA481)	Kameron Grubaugh
Applied Complex Variables (MA485)	Ian Greer
Special Topics in Mathematics (MA488)	Jonathan Grinsell
Applied Problems for Math, Science, And Engineering (MA490)	Nicolette Jimenez John McCormick
Introduction to Topology (MA493D)	Bryce Wilkins
Topics in Analysis (MA493E)	Alexander Miller



**~Network Science Excellence Award~**

**CDT David Baker, Class of 2019**  
"Mapping the USMA Curriculum."

**CDT Don Stanley Dalisay, Class of 2017**  
"Modeling Household Vulnerability in Kampala, Uganda."

**CDT Gustavo Maldonado, Class of 2017**  
"Automating METL Crosswalks using Data Science"

**~Network Science Excellence Award Participants~**

David Baker	John McCormick	Brittany Redmond
Nicholis Ball	William Miller	Soumya Sreerama
Joseph Bosse	Jeremy Mortensen	Michael Sienko
Don Stanley Dalisay	Amy Owens	Nicholas Soos
Joshua Greenberg	James Palmer	Luis Vega
Sung Ju Ha	Brian Quinn	Bryce Wilkins
Gustavo Maldonado	Kenneth Rau	Ryan Wright



~ **Laura Helen Winkel Memorial Applied Math Award** ~

The Laura Helen Winkel Award is presented to the graduating cadet for outstanding performance in the applied mathematics courses in the Mathematics Major Program. This award is made possible through a donation from faculty member, Dr. Brian Winkel and his wife Phyllis who in 2000 established this award in memory of their daughter Laura. The recipient of this award receives a pen set engraved and is memorialized on a plaque prominently displayed in the Department of Mathematical Sciences.

**Cadet Taler Brazell, Class of 2017  
Mathematical Sciences with Honors and  
Applied Statistic Minor**



~ **Second Lieutenant Zachariah Miller Memorial Award** ~

This award is given to the graduating cadet who demonstrates the greatest potential to contribute his or her knowledge of the mathematical sciences in service to the nation, who thus exemplifies the attributes of the late 2LT Zachariah Miller, USMA Class of 2002. Established in 2003, this award is made possible by a donation from Brigadier General (Retired) Frank Giordano. The recipient receives a book determined by the selection committee. The cadet receiving this award is memorialized on a plaque that is prominently displayed in the Department of Mathematical Sciences.

**Cadet Alexandra Bell, Class of 2017  
Mathematical Sciences with Honors and  
Applied Statistic Minor**



~ Problem of the Week Award ~

“The Problem of the Week” Mathematics Problem Solving Competition Award is presented each semester to the cadet and faculty member with the highest point total accumulated in the Department of Mathematical Sciences weekly competition.

**CDT Mark Dosh, Class of 2017**  
**COL Tina Hartley, Academy Professor**



~ The 2017 Mathematical Contest in Modeling and Interdisciplinary Contest in Modeling Winners ~

The Mathematical Contest in Modeling (MCM) and Interdisciplinary Contest in Modeling (ICM) involve two to three-person teams modeling and presenting their written solution to a complex problem over the course of 96 hours. There are over ten thousand teams from around the world who competed in these competitions.

*Interdisciplinary Contest in Modeling Winners:*

**Outstanding Winner (ICM Problem F)**

CDTs John McCormick (2017), Matthew Yuan (2019), and  
Zachary Zimmerman (2018)  
(Faculty Advisor, Dr. Jong Chung)

**Meritorious Winner (ICM Problem D)**

CDTs Meaghan McGovern (2019), and Monica Sowinski (2019)  
Amy Owens (2019)  
(Faculty Advisor, MAJ Michael Seminelli)



~ **Military Applications Society Award** ~

The Military Applications Society Award is presented to the cadet who displays excellence in Operations Research. This award, established in 1970, is also presented at the Graduation Awards Convocation where the cadet will receive a set of book ends in the name of the Institute for Operations Research and Management Sciences for Excellence in Operations Research. The recipient of this award is memorialized on a plaque that is prominently displayed in Thayer Hall.

**Cadet Jessica Zhu, Class of 2017  
Operations Research with Honors and  
Chinese with Honors**



~ Hollis Award ~  
(Dr. Gene Lesinski, Advisor)

“The Hollis Award” was established by the United States Military Academy in 1995 to annually recognize an individual cadet or group of cadets that excel in their application of Operations Research/Systems Analysis methods in solving a real-world problem. This award is competitive among cadets and is presented in the name of Walter W. Hollis, former Deputy Undersecretary of the Army for Operations Research. Cadet recipients are formally recognized at the ceremony conducted in the Department of Systems Engineering.

**Cadet Pavel Delimarschi, Class of 2017**  
**Cadet Jonathan Griffith, Class of 2017**  
**Cadet Mitchell Howard, Class of 2017**  
**Cadet Sean McBryde, Class of 2017**



~**Annual Mathematics Student Award**~

This award is presented to cadets who are nominated by instructors for outstanding achievements in mathematics during the academic year. Cadets receiving this award are presented with a book to further their interest in mathematics as well as a certificate of accomplishment.

**Cadet Chris Aselton, Class of 2020**  
**Cadet Alexandre Basagoitia, Class of 2020**  
**Cadet Adam Hug, Class of 2020**  
**Cadet Murray Johnston, Class of 2020**  
**Cadet Michael Mctiernan, Class of 2020**  
**Cadet Wesley Swain, Class of 2020**

~**William Lowell Putnam Mathematical Competition**~

The William Lowell Putnam Mathematical Competition is an annual mathematics competition for undergraduate college students, widely considered to be the most prestigious university-level mathematics examination in the world. Its difficulty is such that the median score is often zero.

**Cadet Matthew Yuan, Class of 2019**  
**Top 10% (Score of 30)**

