



# MAA Project NExT

NEW EXPERIENCES IN TEACHING



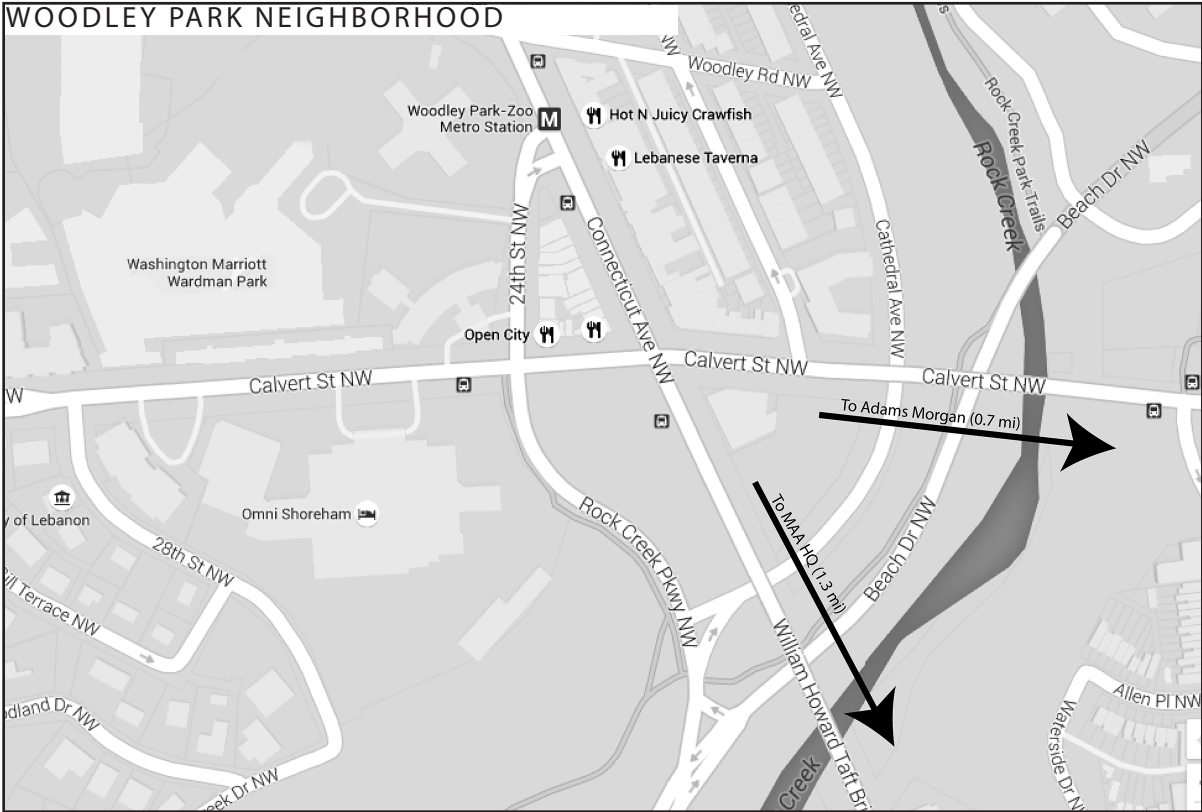
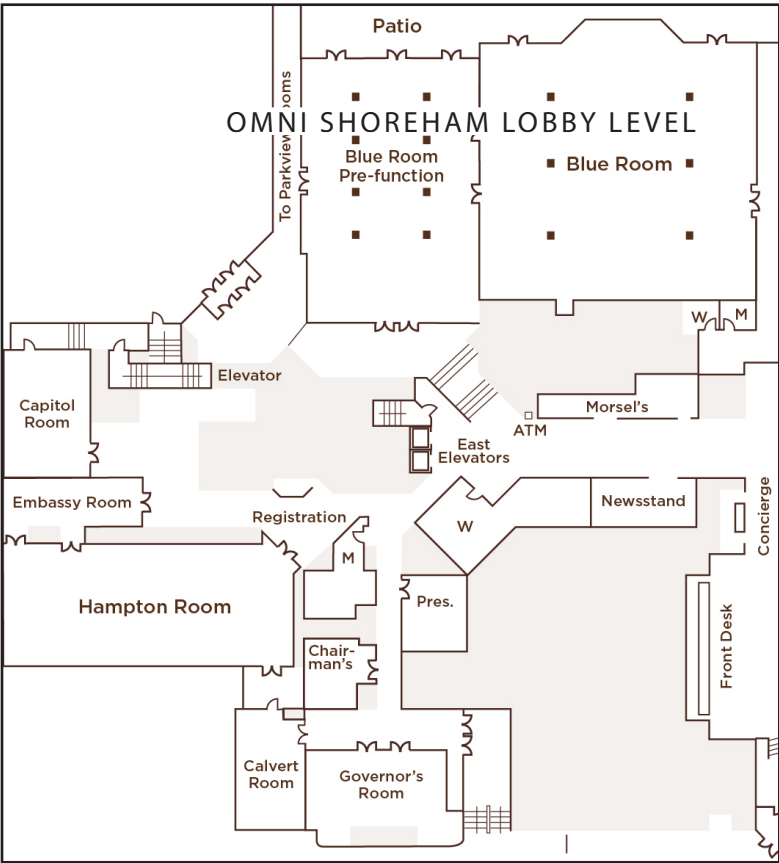
AUGUST 2-6, 2015

OMNI SHOREHAM HOTEL  
WASHINGTON, D.C.

# MAPS



FULL PROGRAM  
[WWW.MAA.ORG/PN-PROGRAM](http://WWW.MAA.ORG/PN-PROGRAM)





MAA Project NExT Gold'14 Fellows at MAA MathFest 2014

## SCHEDULE

### SUNDAY, AUGUST 2 (RED '15)

11:00–1:00 P.M.	REGISTRATION	BLUE PREFUNCTION
1:00–1:45 P.M.	WELCOME <b>David Kung, Director, Project NExT, Gold (2000)</b> <b>Francis Su, President, MAA, Blue (1996)</b>	BLUE ROOM
1:45–2:30 P.M.	SMALL GROUP SESSIONS 0 BLUE PREFUNCTION 1 CALVERT 2 CAPITOL 3 CHAIRMAN'S 4 EMBASSY 5 GOVERNOR'S 6 HAMPTON 7 PRESIDENTIAL	
2:30–2:45 P.M.	BREAK	
2:45–3:45 P.M.	PLENARY <b>How Now Shall We Teach Mathematics?</b> Matt Boelkins, Grand Valley State Univ., Brown (1999)	BLUE ROOM
3:45–4:15 P.M.	BREAK (WITH SNACKS)	BLUE PREFUNCTION
4:15–5:30 P.M.	DEMONSTRATION <b>Interactive Teaching Methods</b> Matt DeLong, Taylor Univ., Brown (1999) Alissa S. Crans, Loyola Marymount Univ., Orange (2004) Annalisa Crannell, Franklin & Marshall College	BLUE ROOM
5:30–6:00 P.M.	BREAK	
6:00–7:00 P.M.	DINNER	HAMPTON
7:00–8:15 P.M.	SMALL GROUPS <b>What Methods Might Work for You?</b>	HAMPTON

## MONDAY, AUGUST 3

7:30–8:30 A.M.	BREAKFAST	BLUE PREFUNCTION
8:30–9:15 A.M.	PLENARY <b>Establishing Your Professional Identity</b> Alissa S. Crans, Loyola Marymount Univ., Orange (2004)	BLUE ROOM
9:15–9:30 A.M.	GROUP PHOTO	TBD
9:45–10:45 A.M.	PLENARY <b>Time Management</b> Annalisa Crannell, Franklin & Marshall College	BLUE ROOM
10:45–11:00 A.M.	BREAK	
11:00–12:15 P.M.	BREAKOUT SESSIONS <b>A. Cooperative Learning in Mathematics</b> - James Epperson <b>B. Helping Students Learn to Write Proofs</b> - Chris Stevens <b>C. Show Me the Data</b> - Talithia Williams <b>D. Social Justice and Mathematics</b> - Dave Kung <b>E. Tactile Visualization Techniques for Teaching Calculus</b> - Julie Barnes	CAPITOL GOVERNOR'S CALVERT EMBASSY HAMPTON
12:15–1:15 P.M.	LUNCH - SEATED BY RESEARCH AREA	BLUE PREFUNCTION
1:15–1:30 P.M.	BREAK	
1:30–2:45 P.M.	BREAKOUT SESSIONS <b>F. Cooperative Learning in Mathematics</b> - James Epperson <b>G. Helping Students Learn to Write Proofs</b> - Chris Stevens <b>H. Show Me the Data</b> - Talithia Williams <b>I. Social Justice and Mathematics</b> - Dave Kung <b>J. Tactile Visualization Techniques for Teaching Calculus</b> - Julie Barnes	CAPITOL GOVERNOR'S CALVERT EMBASSY HAMPTON
2:45–3:00 P.M.	BREAK	
2:45–3:00 P.M.	SMALL GROUPS - PROFESSIONAL LIFE AT AN INSTITUTION LIKE YOURS i BLUE PREFUNCTION FRONT ii CALVERT iii CAPITOL iv CHAIRMAN'S v EMBASSY vi GOVERNOR'S vii HAMPTON (FRONT) viii PRESIDENTIAL ix BLUE PREFUNCTION BACK x HAMPTON (BACK)	
3:45–4:15 P.M.	BREAK (WITH SNACKS)	BLUE PREFUNCTION
4:15–5:15 P.M.	PLENARY <b>Successful Calculus Programs</b> David Bressoud, Macalester College	BLUE ROOM
5:15–6:00 P.M.	DISCUSSION <b>Challenging Scenarios for Professors</b>	BLUE ROOM
6:00–8:00 P.M.	DINNER (ON YOUR OWN)	
8:00–10:00 P.M.	ICE CREAM SOCIAL (WITH GOLD '14 FELLOWS)	BLUE PREFUNCTION

## TUESDAY, AUGUST 4

7:30–8:30 A.M.	BREAKFAST	BLUE PREFUNCTION
8:30–9:30 A.M.	PLENARY <b>Learning and the Brain</b> Ulcca Hansen, Educating Potential	BLUE ROOM
9:30–9:45 A.M.	BREAK	
9:45–10:45 A.M.	PLENARY <b>Stereotype Threat</b> Catherine Good, Baruch College	BLUE ROOM
10:45–11:00 A.M.	BREAK	
11:00–12:15 P.M.	BREAKOUT SESSIONS <b>K. Teaching Real Analysis</b> - Carol Schumacher <b>L. Teaching Abstract Algebra</b> - Steve Schlicker <b>M. College Students Taking More Math</b> - Bill Velez <b>N. Teaching with Projects</b> - Anthony Tongen <b>O. Teaching Problem Solving</b> - Matt DeLong	CHAIRMAN'S CALVERT EMBASSY GOVERNOR'S CAPITOL
12:15–1:30 P.M.	NETWORKING LUNCH <b>Connecting with the Mathematics Community</b>	BLUE PREFUNCTION
1:45–3:00 P.M.	BREAKOUT SESSIONS <b>P. Teaching Real Analysis</b> - Carol Schumacher <b>Q. Teaching Abstract Algebra</b> - Steve Schlicker <b>R. College Students Taking More Math</b> - Bill Velez <b>S. Teaching with Projects</b> - Anthony Tongen <b>T. Teaching Problem Solving</b> - Matt DeLong	CHAIRMAN'S CALVERT EMBASSY GOVERNOR'S CAPITOL
3:00–3:45 P.M.	SMALL GROUPS BY GEOGRAPHICAL SECTION <b>PACNW</b> BLUE (FRONT LEFT) <b>WI/N.Central</b> CALVERT <b>CA/NV</b> HAMPTON (BACK) <b>Alleg./PA/Del</b> PRESIDENTIAL <b>KS/NE/Rockies</b> BLUE (BACK LEFT) <b>IL/IN/IA</b> EMBASSY <b>TX/OK/AK</b> BLUE (BACK RIGHT) <b>OH/MI</b> CHAIRMAN'S <b>NORTHEAST</b> CAPITOL <b>NY/NJ/Seaway</b> HAMPTON (FRONT) <b>MD/VA/DC</b> BLUE (FRONT RIGHT) <b>SOUTHEAST</b> GOVERNOR'S	
3:45–4:15 P.M.	BREAK (WITH SNACKS)	BLUE PREFUNCTION
4:15–5:15 P.M.	DECIDE ON JMM SESSIONS / GOAL SETTING SESSION	BLUE ROOM
5:15–5:30 P.M.	BREAK	
5:30–7:00 P.M.	CLOSING CEREMONY <b>Something for Everyone: Start Strong, Stay Positive, Be Strategic</b> Sarah Spence Adams, Franklin W. Olin College of Engineering, Forest (2002)	BLUE ROOM

## MONDAY, AUGUST 3

8:00–10:00 P.M. ICE CREAM SOCIAL (WITH RED '15 FELLOWS) BLUE PREFUNCTION

## TUESDAY, AUGUST 4

7:30–8:30 A.M. BREAKFAST BLUE PREFUNCTION

8:30–9:30 A.M. PLENARY BLUE ROOM

### Learning and the Brain

Ulcca Hansen, Educating Potential

9:30–9:45 A.M. BREAK

9:45–10:45 A.M. PLENARY BLUE ROOM

### Stereotype Threat

Catherine Good, Baruch College

10:45–11:00 A.M. BREAK

11:00–12:00 P.M. GOLD '14 SESSIONS (CHOOSE ONE)

### Explorations into Preparing a Successful Tenure Portfolio

BLUE ROOM

Organizers: Sarah Hamilton, Chester Ismay, Justin Marks, Uma Ravat  
 Panelists: Bill Barker (Bowdoin College), Jim Lewis (Univ. of Nebraska-Lincoln), Therese Shelton (Southwestern Univ.), Ron Taylor (Berry Univ.)

### Sending Off Students: Advising Students for Post-Graduation

HAMPTON

Organizers: Barry Minemyer, Kate Montovan, Lee Raney, Haley Yapple  
 Panelists: Greg Coxson (U.S. Naval Research Lab), Michael Dorff (Brigham Young Univ.), Kathleen R. Fowler (Clarkson Univ.)

12:00–1:30 P.M. NETWORKING LUNCH BLUE PREFUNCTION

### Connecting with the Mathematics Community

1:30–1:45 P.M. BREAK

1:45–2:45 P.M. GOLD '14 SESSIONS

### Creating Student Research Groups

BLUE ROOM

Panelists: Michael Dorff (Brigham Young University), Estela Gavosto (Univ. of Kansas), Chad Topaz (Macalester College)  
 Organizers: Nathaniel Burch, Jarod Hart, Liz Lane-Harvard, Mandi Schaeffer-Fry

### Teaching Groups of Students with Mixed Abilities

HAMPTON

Panelists: Barbara Franklin (James Madison Univ.), Angie Hodge (Univ. of Nebraska, Omaha), Suzanne Sumner (Univ. of Mary Washington)  
 Organizers: David Failing, Aaron Montgomery, Martha Shott, and Carolyn Yarnall

2:45–3:00 P.M. BREAK

3:00–3:45 P.M. SMALL GROUPS BY GEOGRAPHICAL SECTION

**PACNW** BLUE (FRONT LEFT)

**CA/NV** HAMPTON (BACK)

**KS/NE/Rockies** BLUE (BACK LEFT)

**TX/OK/AK** BLUE (BACK RIGHT)

**NORTHEAST** CAPITOL

**MD/VA/DC** BLUE (FRONT RIGHT)

**WI/N.Central** CALVERT

**Alleg./PA/Del** PRESIDENTIAL

**IL/IN/IA** EMBASSY

**OH/MI** CHAIRMAN'S

**NY/NJ/Seaway** HAMPTON (FRONT)

**SOUTHEAST** GOVERNOR'S

## TUESDAY, AUGUST 4 (CONT)

3:45–4:15 p.m.	break (with snacks)	BLUE PREFUNCTION
4:15–5:15 P.M.	<p>GOLD '14 SESSIONS (CHOOSE ONE)</p> <p><b>Recruitment and Retention of Math Majors</b>            Panelists: Erica Flapan (Pomona College), William Velez (Univ. of Arizona), Paul Zorn (St. Olaf College)            Organizers: Amanda Croll, Jessie Hamm, Mike Janssen, Derek Thompson</p> <p><b>Teaching an Introductory Proofs Course</b>            Panelists: Connie Campbell (Millsaps College), Gizem Karaali (Pomona College), Cody Patterson (Univ. of Arizona)            Organizers: Holley Friedlander, Tyler Kloefkorn, Kristen Mazur, Corey Shanbrom</p>	<p>BLUE ROOM</p> <p>HAMPTON</p>
5:15–5:30 P.M.	BREAK	
5:30–7:00 P.M.	<p>CLOSING CEREMONY</p> <p><b>Something for Everyone: Start Strong, Stay Positive, Be Strategic</b>            Sarah Spence Adams, Franklin W. Olin College of Engineering, Forest (2002)            Thanks to Jeb Collins and Kate Kearney for coordinating the Gold'14 sessions.</p>	BLUE ROOM

## PROJECT NEXT COURSES (GOLD'14 & RED'15)

GOLD '14 FELLOWS: SEE YOUR EMAIL FOR COURSE ASSIGNMENTS

## WEDNESDAY, AUGUST 4 & THURSDAY, AUGUST 5

1:00–3:00 P.M.	PROJECT NEXT COURSE U	EMBASSY
	<p><b>Teaching Introductory Statistics</b>            Alan Rossman, Cal Poly San Luis Obispo</p>	
1:00–3:00 P.M.	PROJECT NEXT COURSE V	CAPITOL
	<p><b>Your Research off to a Good Start</b>            Joe Gallian, University of Minnesota - Duluth</p> <p><b>NSF Basics: Overview, Funding Opportunities, &amp; Grant-Writing Tips</b>            Jennifer Pearl &amp; Tasha Iniss, National Science Foundation</p>	
1:00–3:00 P.M.	PROJECT NEXT COURSE W	GOVERNOR'S
	<p><b>Learn to 3D Print Mathematical Objects</b>            Laura Taalman, MakerBot</p>	
3:15–5:15 P.M.	PROJECT NEXT COURSE X	EMBASSY
	<p><b>Teaching Math Courses for Future K-8 Teachers</b>            Judith Covington, Louisiana State University - Shreveport</p>	
3:15–5:15 P.M.	PROJECT NEXT COURSE Y	GOVERNOR'S
	<p><b>Undergraduate Research - How to Make it Work</b>            Aparna Higgins, University of Dayton</p>	
3:15–5:15 P.M.	PROJECT NEXT COURSE Z	CAPITOL
	<p><b>Mathematics and Effective Thinking</b>            Michael Starbird, University of Texas - Austin</p>	

# 2015-2016 PROJECT NEXT FELLOWS RED'15 COHORT

**Justin Allman**  
Duke University  
[ 1, B, I, II, K, Q, Y ]

**Sarah Anderson**  
University of St. Thomas  
[ 2, B, J, VIII, M, Q, Y ]

**John Asplund**  
Dalton State College  
[ 3, B, H, IV, K, Q, V ]

**Spencer Bagley**  
University of Northern Colorado  
[ 4, D, J, II, N, P, W ]

**Selenne Banuelos**  
California State University,  
Channel Islands  
[ 5, E, G, IV, K, S, V ]

**Brandon Bate**  
Houghton College  
[ 6, B, H, X, O, P, Y ]

**Thomas Bellsky**  
University of Maine  
[ 7, E, G, V, K, S, V ]

**Vindya Bhat**  
New York University  
[ 0, E, H, V, O, R, Z ]

**Jason Bintz**  
Houghton College  
[ 1, C, F, VI, N, R, U ]

**Abigail Bishop**  
Iona College  
[ 2, D, F, VIII, M, Q, V ]

**Jonathan Bloom**  
Lafayette College  
[ 3, D, G, IX, O, Q, Y ]

**Henry Boateng**  
Bates College  
[ 4, C, J, VII, N, T, V ]

**Sarah Bockting-Conrad**  
DePaul University  
[ 5, D, F, V, O, Q, X ]

**Lake Bookman**  
Yale University  
[ 6, A, G, III, O, P, X ]

**Rachel Chaphalkar**  
University of Wisconsin - Whitewater  
[ 7, E, H, II, O, R, U ]

**Elizabeth Chisholm**  
Chapman University  
[ 0, E, F, III, N, T, Z ]

**Thomas Clark**  
Dordt College  
[ 1, B, J, VI, O, P, Y ]

**Deidra Coleman**  
Philander Smith College  
[ 2, A, I, X, M, Q, V ]

**Michelle Cordier**  
Wheeling Jesuit University  
[ 3, E, F, VI, M, T, Y ]

**Jamye Curry**  
Georgia Gwinnett College  
[ 4, C, J, II, N, T, U ]

**Colin Dawson**  
Oberlin College  
[ 5, C, F, IX, N, T, V ]

**Philip DeOrsey**  
Emory and Henry College  
[ 6, C, J, X, K, Q, W ]

**Jennifer Diemunsch**  
Saint Vincent College  
[ 7, E, F, VI, M, P, Y ]

**Houssein El Turkey**  
University of New Haven  
[ 0, B, I, III, L, T, U ]

**Catherin Erbes**  
Hiram College  
[ 1, A, I, X, M, S, U ]

**Shurong Fang**  
Fairfield University  
[ 2, C, F, IX, M, S, U ]

**Cynthia Flores**  
California State University,  
Channel Islands  
[ 3, D, H, IV, M, P, V ]

**John Foster**  
Walla Walla University  
[ 4, C, G, VI, L, R, Y ]

**Norman Fox**  
Austin Peay State University  
[ 5, A, G, II, L, S, Y ]

**Adam Giambone**  
University of Connecticut  
[ 6, A, I, I, N, R, Z ]

**Erica Graham**  
Bryn Mawr College  
[ 7, C, F, V, M, P, Y ]

**Alexander Halperin**  
Salisbury University  
[ 0, D, G, II, N, T, Y ]

**Annette Honken**  
University of Wisconsin-Platteville  
[ 0, D, G, II, N, T, Y ]

**Alana Hoyer-Leitzel**  
Mount Holyoke University  
[ 2, D, J, IX, N, R, V ]

**Marie Jameson**  
University of Tennessee  
[ 3, A, I, V, L, R, V ]

**Sara Jensen**  
Carthage College  
[ 4, B, I, VIII, L, S, V ]

**Silas Johnson**  
Northwestern University  
[ 5, A, G, VI, L, T, Y ]

**Franklin Kenter**  
Rice University  
[ 6, B, H, V, O, P, Y ]

**Lauren Keough**  
Davidson College  
[ 7, D, G, VII, N, P, Y ]

**Steven Kim**  
California State University, Monterey Bay  
[ 0, C, F, V, N, T, U ]

**Raena King**  
Christian Brothers University  
[ 1, D, G, VI, K, T, Y ]

**Katherine Kinnaird**  
Macalester College  
[ 2, D, H, VI, O, R, U ]

**Lucas Kramer**  
Bethel College  
[ 3, A, G, X, O, Q, Y ]

**Alison Lynch**  
California State University, Monterey Bay  
[ 4, E, F, IV, O, Q, V ]

**Christian Millichap**  
Linfield College  
[ 5, B, J, VII, K, S, Y ]



# 2015-2016 PROJECT NEXT FELLOWS RED'15 COHORT

**Matthew Morena**  
Young Harris College  
[6, E, F, VII, O, S, U]

**Stacy Musgrave**  
California Polytechnic University,  
Pomona  
[7, D, G, IV, L, P, X]

**Van Nguyen**  
Northeastern University  
[0, A, J, I, L, R, V]

**Anisha Nu'Man**  
Trinity College  
[1, A, I, VII, N, T, U]

**Victor Ocasio**  
University of Puerto Rico  
[2, B, H, II, L, T, W]

**Seungly Oh**  
Western New England University  
[3, A, H, III, N, P, U]

**Frank Patane**  
Samford University  
[4, B, J, VIII, L, R, Y]

**Andrew Penland**  
Western Carolina University  
[5, A, I, II, L, R, V]

**Caitlin Phifer**  
Merrimack College  
[6, E, F, VIII, O, R, X]

**Vincent Pigno**  
California State University, Sacramento  
[7, D, G, I, K, Q, W]

**Leonardo Pinheiro**  
Rhode Island College  
[0, B, I, IV, K, S, V]

**Dylan Poulsen**  
Washington College  
[1, A, H, VII, K, S, U]

**Julie Rana**  
University of Minnesota  
[2, A, J, I, O, S, Y]

**Jolie Roat**  
SUNY Cortland  
[3, B, H, IV, L, R, Y]

**James Rohal**  
West Liberty University  
[4, B, H, IX, N, P, Y]

**John Ross**  
Southwestern University  
[5, C, F, VII, N, P, U]

**Amber Russell**  
Butler University  
[6, A, G, III, N, Q, Y]

**Bradford Schleben**  
Belmont University  
[7, D, F, III, L, T, Y]

**Peri Shereen**  
Carleton College  
[0, A, J, VII, L, S, V]

**Katharine Shultz**  
Gonzaga University  
[1, E, G, VIII, N, R, Z]

**Brett Smith**  
Yale University  
[2, C, F, VII, N, T, X]

**Lucy Spardy**  
Skidmore College  
[3, E, F, IX, N, T, V]

**Amanda Sutherland**  
Shenandoah University  
[4, C, J, IX, M, Q, X]

**Anil Venkatesh**  
Ferris State University  
[5, C, G, II, K, S, Y]

**Daniel Visscher**  
University of Michigan  
[6, A, I, I, M, P, Y]

**Jared Warner**  
City University New York Guttman  
Community College  
[7, C, I, X, M, S, U]

**Tracy Weyand**  
Baylor University  
[0, E, F, I, O, S, V]

**David White**  
Denison University  
[1, C, J, IX, O, S, V]

**Jessica Williams**  
Converse College  
[2, E, F, VII, M, S, Y]

**Shelby Wilson**  
Morehouse College  
[3, A, H, VIII, K, S, Y]

**Sarah Wolff**  
Denison University  
[4, B, J, IX, O, S, V]

**Celestine Woodruff**  
James Madison University  
[5, A, G, II, O, S, Y]

**Karamatou Yacoubou Djima**  
Swarthmore College  
[6, B, H, VII, K, T, Y]

**Kamuela Yong**  
University of Hawaii, West Oahu  
[7, B, J, IX, M, T, Y]

**Alexander Zupan**  
University of Nebraska-Lincoln  
[0, A, I, V, K, T, Z]

Small Group,  
Breakout, and Course  
Assignments are listed  
in chronological order.  
See the schedule for  
locations.

## WORKSHOP LEADER BIOS

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**Sarah Spence Adams** is an Associate Dean of Faculty Affairs and Development and a Professor of Mathematics and Electrical & Computer Engineering at Olin College of Engineering. She works in Algebraic Coding Theory and credits Project NExT with igniting a fire within her for seeking grants, engaging undergraduates in research, and undertaking rewarding local and national service.

**Julie Barnes** (Associate Director) is a Professor of Mathematics at Western Carolina University. A Blue (1996) Fellow, she spent a year as a Distinguished Visiting Professor at the United States Air Force Academy. Julie typically teaches a wide range of undergraduate courses and enjoys bringing in a variety of hands-on activities into all of her classes, including calculus.

**Matt Boelkins** is Professor of Mathematics at Grand Valley State University, author of the free and open-source Active Calculus, co-editor-in-chief of the journal PRIMUS, and a member of the MAA's board of governors. He plays ice hockey at 6 am two mornings a week, and fly-fishes Michigan rivers as often as possible.

**David Bressoud** spent 17 years at Penn State before moving to Macalester College in 1994. He was President of the MAA from 2009 to 2011 and has served as chair of the AP Calculus Development Committee. He has published in number theory, combinatorics, analysis, and mathematics education, and has written several textbooks that draw on the history of mathematics to motivate it.

**Judith Covington** is a Professor of Mathematics at Louisiana State University Shreveport. She teaches a variety of courses for future teachers and is the director of the North Louisiana Math Teachers' Circle. Her numerous teaching awards include the 2015 Haimo Award. Judith was an original Red (1994) Dot and served on the Project NExT leadership team for nearly two decades.

**Annalisa Crannell** is a Professor of Mathematics at Franklin and Marshall College who does those usual time-consuming things (rearing six kids, serving on college and MAA committees, teaching, research, and running). Even though she is exquisitely organized, she's delighted when people mix her up with her idol, Alissa. In addition to research in dynamical systems and math & art, Annalisa maintains the MiserMom blog, organizes musicals, and cans fruits and vegetables.

**Alissa S. Crans** (Associate Director) is an Associate Professor of Mathematics at Loyola Marymount University. Her professional interests include higher-dimensional and quantum algebra, relationships between math and music, and encouraging and supporting diversity and inclusivity in mathematics. She enjoys playing the clarinet, running, and being mistaken for her idol, Annalisa Crannell.

**Matt DeLong** (Associate Director) is a Professor of Mathematics and Fellow of the Bedi Center for Teaching and Learning Excellence at Taylor University. He won the 2005 Alder Award and the 2012 Haimo Award for distinguished teaching from the MAA. He enjoys singing, choral conducting, performing in musical theater, and coaching little league sports, and being with his wife and three kids.

**James A. Mendoza Epperson** is an associate professor of Mathematics and Distinguished Teaching Professor at The University of Texas at Arlington. He was a post-doctoral fellow at the Charles A. Dana Center under Dr. Uri Treisman and currently serves on the Board of Governors of the Mathematical Association of America.

**Catherine Good** is an associate professor of psychology at Baruch College and The Graduate Center of the City University of New York. She received a master's degree in mathematics from the University of Kansas in 1994 and an Ad Hoc Interdisciplinary Ph.D. in mathematics education and social psychology from The University of Texas at Austin in 2001. Dr. Good's research focuses on the social-psychological factors that impact students' academic achievement, learning, and motivation in STEM fields.

**Joe Gallian's** research interests include graphs, combinatorics, and groups. His summer undergraduate research students have published more than 200 papers in mainstream professional journals. He has written one very popular Algebra book, published more than 100 articles and given over 500 invited lectures at colleges, universities and conferences.

**Ulcca Hansen** is Founder of Educating Potential, an organization dedicated to ensuring that all students are provided learning experiences that help them to meet their academic and personal potential. A former classroom teacher, she currently works on projects that span education policy, program design and evaluation, and professional development for educators. She is writing a book exploring interdisciplinary research that should inform how learning environments and experiences should be structured, and is also a Lecturer at the University of Colorado.

## WORKSHOP LEADER BIOS

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**Aparna Higgins** has taught at the University of Dayton since 1984. Although she enjoys all her teaching experiences and was honored by the MAA with the Haimo Award, her most fulfilling professional experiences were in directing undergraduates in mathematical research. She has served the MAA in many capacities, including as a member of the Project NExT leadership team, and as the Director of Project NExT from 2009 until 2014.

**Tasha R. Inniss** is a tenured Associate Professor of Mathematics at Spelman College. She is currently on “loan” to the National Science Foundation (NSF), serving as a rotator in the Directorate for Education and Human Resources (EHR). As an applied mathematician, her research interests include datamining and operations research.

**Dave Kung** (Director) is a Professor of Mathematics at St. Mary’s College of Maryland and a Gold dot (2000). He has published on topics from pure math to mathematics education, and just released his second lecture series with The Great Courses. His teaching awards including the MAA’s MD/VA/DC sectional award. When he’s not injured he enjoys running, biking and playing violin.

**Jennifer Slimowitz Pearl** is a Program Director in the Division of Mathematical Sciences at the National Science Foundation. She manages the DMS Infrastructure program and is active in NSF’s efforts to support the training of students and postdoctoral researchers in the mathematical sciences. Her research is in symplectic geometry and she is a Gold dot (2000).

**Allan Rossman** is Professor and Chair of Statistics at Cal Poly – San Luis Obispo. He has served as Chief Reader for the Advanced Placement program in Statistics and as Program Chair for the U.S. Conference on Teaching Statistics. He is a Fellow of the American Statistical Association and a recipient of the MAA’s Haimo Award for Distinguished Teaching.

**Steve Schlicker** has held positions at Roosevelt University (in Chicago), Luther College (in Decorah, IA), and is currently Professor of Mathematics at Grand Valley State University. He has co-authored several IBL-style texts and has served in numerous MAA positions in Michigan and nationally, including on the Project NExT Leadership Team from 2012 to 2014.

**Carol Schumacher** is Professor of Mathematics at Kenyon College. She earned in Mathematics Ph.D. in Mathematics from The University of Texas at Austin in 1989. A devotee of Inquiry-Based Learning, her popular textbooks Chapter Zero---Fundamental Notions of Abstract Mathematics and Closer and Closer---Introducing Real Analysis. both emphasize interactive pedagogies.

**Michael Starbird**, a University of Texas at Austin professor, has received many teaching awards including the MAA Haimo Award. He has produced DVD courses in the Great Courses Series on calculus, statistics, probability, geometry, and the joy of thinking. His books include Inquiry Based Learning textbooks and, with co-author Edward Burger, The Heart of Mathematics: An invitation to effective thinking and The 5 Elements of Effective Thinking.

**Christine Stevens** is an Associate Executive Director of the American Mathematical Society. Prior to that, she served as Professor of Mathematics and Computer Science at Saint Louis University. In 1994, together with the late Jim Leitzel, she founded Project NExT, which she led until 2009. Her long list of accolades includes the MAA’s Haimo Award and the Gung and Hu Award for Distinguished Service to Mathematics.

**Laura Taalman** is a Professor of Mathematics at James Madison University, author of nine books on topics ranging from Calculus to Sudoku, and currently serves as the Senior Product Manager for Education at MakerBot. Also known as “mathgrll”, she is the founder of JMU 3-SPACE, the first general-education 3D-printing classroom in the country, and blogs about 3D printing at MakerHome and Hacktastic.

**Anthony Tongen** (Assistant Director) is an Associate Professor at James Madison University. During his ten years at JMU, he has advised more than 65 undergraduate research projects and written Keeping it R.E.A.L.: Research Experiences for All Learners, a collection of undergraduate classroom research projects. He enjoys spending time with his family and playing lots of sports.

**Bill Velez** is a Distinguished Professor of Mathematics at the University of Arizona. In addition to his work in number theory, many of his numerous grants and awards pertain to increasing the number and diversity of mathematics majors. He has held leadership positions in the MAA, AMS, SACNAS, and AAAS. He is an occasional electrician and a reluctant plumber.

**Talithia Williams** is Associate Professor and Associate Chair of Mathematics at Harvey Mudd College. She has a passion for integrating and motivating the educational process with real world statistical applications and gave a TED talk (currently over 970,000 views) which explores how each of us can begin to collect data about ourselves that can provide insight into our personal health.

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