

## Commencement Speaker Biography

**Dr. Antonia Arnold-McFarland** is a multi-faceted community advocate who enjoys inspiring hope and positive change in others via her involvement in the community. She works full-time as a technical professional who manages and leads quality engineering projects, programs and process improvements. She also enjoys coaching others on career development, project management and problem-solving methods. In her spare time “Toni” or “Dr. Toni” as she is known, applies these same skills as she serves the community in various capacities. Her Christian faith is the foundation that enables her to have hope and vision to help and lead others.

Toni is originally from Spartanburg, SC where she was raised by educators, along with her two siblings. She received a Bachelor of Science in Mechanical Engineering and a minor in African American Studies (1996) from NC State University while working full time as a manufacturing engineer. As a mid-career professional, she earned an MBA in Global Management from the University of Phoenix Raleigh Campus (2007). Her engineering experience, project work and successful exam performance earned her the Six Sigma Black Belt Certification (American Society for Quality, 2008). This is a certification in quality that applies statistical problem-solving methods to minimize defects and achieve process control. She combined her passion and profession together when she received her Doctor of Ministry in Creative Arts from the Graduate Theological Foundation of Mishawaka, IN (2016). Her doctoral research concentrated on the African American Worship Experience. It leveraged quantitative and qualitative research methods for problem-solving and improvement in music and arts ministry in the Black Church.

Toni has worked full time for Deere and Company since 1998. She recently took on an exciting new assignment as an Analytics Lead in Quality Engineering. This team is a part of Factory Engineering at John Deere Turf Care located in Fuquay-Varina, NC. In addition, she is also a recent author, lecturer and scholar in music and arts of the African American Worship Experience. She leverages this research along with her academic studies, cultural undergirding in African American History and lived experiences to bring diverse and inclusive perspectives to her corporate and community involvement. Her belief is that diversity should matter to everyone. Society cannot afford to exclude any human potential that might bring life-changing solutions to the complex problems of today’s world.

## Undergraduate Speaker Biography

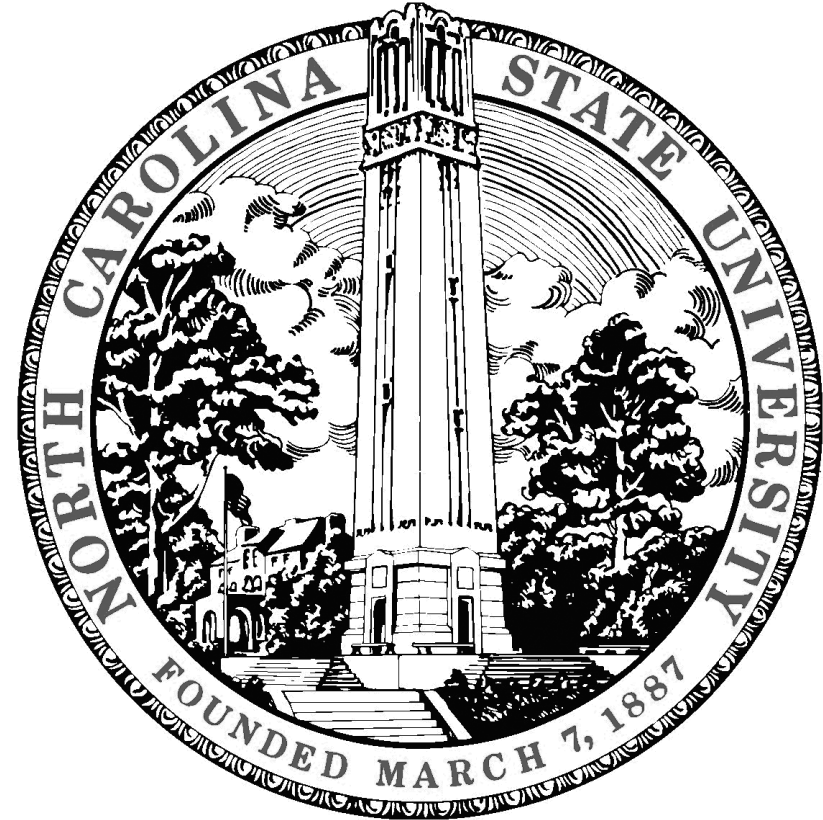
**Ms. Lila Crick** is a Spring 2020 graduate from the MAE department with a Bachelor of Science in Aerospace Engineering, a minor in Mathematics, and a minor in French. At North Carolina State University, Lila maintained a 4.0 GPA while working 3 jobs on-campus, working 1 job off-campus, and leading 2 organizations over the course of her 4 years. Serving as Fundraising Chair, Vice President, and President, she dedicated her free time and effort to the Society of Women Engineers and The Movement to End Interpersonal Violence. Through these groups, she raised over \$2,000 in scholarship money for women in STEM, organized gender equity service projects, facilitated educational workshops, and created a partnership between the Women’s Center and the University Scholars and Honors Program, where she worked as an ambassador.

In her junior year, Lila interned at one of Northrop Grumman’s Satellite Manufacturing Facility in Dulles, Virginia and helped to integrate new software for processing radiofrequency test data. In her senior year, Lila led the Electronics Team of her Space Senior Design group in addition to taking on working as an AV technician for Engineering Online. Lila currently works as a Satellite Test Engineer for Northrop Grumman and looks forward to becoming a Payload Test Lead for the Galaxy 33 spacecraft in the coming year.

## Graduate Speaker Biography

**Dr. Stefan Atay** received his Bachelor of Science and Master of Science degrees in Mechanical Engineering from Washington University in St. Louis. He has worked as a control systems and robotics engineer at Lexmark Intl., TransEnterix Inc., and Garmin Ltd. He joined the Pack in 2018 as a Dean’s Doctoral Fellow in Mechanical and Aerospace Engineering, where he worked in the Intelligent Structures and Systems Research Lab and the Electromechanics Research Lab. His research focused on modeling, control system design, optimization, and state estimation for multi-domain robotic systems. He is currently a machine learning research engineer at Applied Research Associates in Raleigh, NC.

# NORTH CAROLINA STATE UNIVERSITY



FALL DIPLOMA AWARD CEREMONY

DEPARTMENT OF MECHANICAL AND  
AEROSPACE ENGINEERING

FRIDAY, DECEMBER 4, 2020  
10:00 AM

North Carolina State University  
Department of Mechanical and Aerospace Engineering  
Fall Diploma Award Ceremony Program  
December 4, 2020 - 10:00 am

Welcome to the diploma award ceremony for the Department of Mechanical and Aerospace Engineering at North Carolina State University. The entire department extends cordial greetings to parents, grandparents, partners, relatives, and friends gathered here today. Today's ceremony recognizes the academic achievement of our graduating bachelor, master, and doctoral students and marks a major accomplishment in their lives. Today is the day they join an elite group and carry on the tradition of excellence by becoming alumni of the Department of Mechanical and Aerospace Engineering at North Carolina State University.

Welcome Dr. Srinath V. Ekkad  
*RJ Reynolds Professor and Department Head*

Undergraduate Address Ms. Lilavati (Lila) Crick  
*BSE Spring 2020*

Graduate Address Dr. Stefan Atay  
*PhD ME Summer 2020*

Commencement Address Dr. Antonia Arnold-McFarland  
*BSME 1996*

Presentation of Doctoral and Master Diplomas Dr. Kara Peters  
*Professor, Associate Department Head, and  
Director of Graduate Programs*

Presentation of Undergraduate Diplomas Mrs. Cheryl Tran  
*Lecturer and Director of Undergraduate Programs*

Presentation of Graduating Class & Closing Remarks Dr. Srinath V. Ekkad

**The Doctor of Philosophy Degree**

The doctoral degree is the most advanced academic degree conferred by American institutions of higher education. The title Doctor, which is Latin for teacher, was used in the twelfth century to denote those of great learning.

Honors Qualifications:  
*Cum Laude* (with honor)  
GPA of 3.25 - 3.49

**The Master of Science Degree**

The master degree represents the successful completion of one or two years of study beyond the bachelor degree. This academic honor dates back to the establishment of the oldest universities in Europe.

*Magna Cum Laude*  
(with high honor)  
GPA of 3.50 - 3.74

**The Bachelor of Science Degree**

The bachelor degree is the oldest academic degree used by institutions of higher education in America. This degree, which represents completion of a four year course of study at the college level, was first awarded in America in 1642 to the graduating class of Harvard College.

*Summa Cum Laude*  
(with highest honor)  
GPA of 3.75 and above

***Fall/Summer 2020 Graduates***

**Doctor of Philosophy  
Aerospace Engineering**  
Daniel Long\*\*

**Doctor of Philosophy  
Mechanical Engineering**  
Sultan Saad Alqahtani\*\*  
Stefan Atay\*\*  
Md Atiqur Rahman Chowdhury  
Mitchell Cobb\*\*  
Christian Earnhardt  
Egbe Eni\*\*  
Benjamin Groelke\*\*  
Tyler Jenkins  
Yasamin Karbalaieisadegh  
Jacob Marx  
Samuel Miller  
Hao Pang  
Fujun Wang  
Elizabeth Kirkpatrick Worsham\*\*  
Ming Yao

**Master of Science  
Aerospace Engineering**  
Benjamin Adamcik  
Saurabh Agrawal  
Wonbeom Cho\*\*  
Jananee Dhanasekaran  
Jesse Heidrich  
Rounak Mukhopadhyay  
John Parsons IV\*\*  
Edward Pickens  
Christopher Popiela  
Timothy Song  
Aaron Michael Turpin  
Hanwen Wang\*\*

**Master of Science  
Mechanical Engineering**  
Sarath Babu\*\*  
John Robert Booker\*\*  
Ronald Erik Booth  
Joseph Brannon  
Cameron Carson  
Kytel Collins-Jackson  
Jackson Stone Davis  
Caitlyn Marie De Angelus  
Rebecca Diederich  
Aditya Baban Ghawre\*\*  
Nicholas Guelda

Britta Huibers  
Paul Hutson  
Christopher Jadelis  
Michael Jenkins  
Helen Johnson  
Noah Landon Johnson  
Anvay Joshi  
Tanmay Mohan Khare\*\*  
Christopher Magnotti  
Shashvat Tejaskumar Mehta\*\*  
Bryan Owens  
Dinesh Raj Pant  
Alexander Price\*\*  
James Reed  
Thomas Johnson Ray Safon  
Shyamsundar Shanmugasundaram\*\*  
John Slugg  
Mark Stepnowski  
John Tillery  
Jordan Tsolis  
Sameer Amarnath Upadhye  
Manan Ketan Vasavada  
Rohit Kameshwara Sampath Sai Vupala\*\*  
Nicolas Yasserd Yabrudy Perez  
Yuchen Yan\*\*

***Spring 2020 Graduates***

**Doctor of Philosophy  
Aerospace Engineering**  
Eric Jacuzzi  
Kevin Ley

**Doctor of Philosophy  
Mechanical Engineering**  
Nadish Anand  
Howuk Kim  
Kyunghoon Kim

**Master of Science  
Aerospace Engineering**  
Kevin Barker  
Jamie Hood  
Harvey Hoopes  
Kevin Judd  
Ryan Odessa  
Joseph Talbot

**Master of Science  
Mechanical Engineering**  
Cody Allen  
Aparaajith Balaram  
Yash Bhagat  
Rutvij Rajiv Bhagwat  
Jim Biglin  
Erin Brennan  
Michael Canaday  
Mitesh Chahar  
Milind Chauhan  
Qiuyi Chen  
Karan Chhajer  
Ramaswamy Devakottai Sundaram  
Moatasim Farooque  
Andrew Franks  
Omkar Yashwant Ghodekar  
Ariel Hall  
Emily Happ  
Bhagat Kewlani  
Evan Kilpatrick  
Samir Kothari  
Sipan Liu  
Kristopher Maxey  
Austin McInnis  
Japen Karmesh Mehta  
Austin Motes  
Siddarth Nagaraj  
Dhruv Manoj Patel  
Alexander Price  
Varun Prasanna Rajamuthu  
Chinmaya Attur Venugopal Rajath  
Harish Rajkumar  
Eshwar Ravishankar  
Robert Raymond  
Vivek Subramaniam Sambamurthy  
Daniel Santiago Rodrigues  
Jay Amit Shah  
Hun Ki Sim  
Bharatharajan Subramaniaraman  
Jesse Tart III  
Madhusudan Thirumalai  
Joshua Stevedhas Vijayan  
Jaquelyn Williamson

\*\* Summer 2020 graduate

## ***Fall 2020 Graduates***

### **Bachelor of Science**

#### **Aerospace Engineering**

Erik Benson *magna cum laude*  
Sean Clark *summa cum laude*  
Abdullah Elkodsi *magna cum laude*  
Fernando Gorrin-Rivas *cum laude*  
Caleb Hash *summa cum laude*  
David Kwan *cum laude*  
Tanya Mittal *magna cum laude*  
Ian Swart  
Tony Tran *magna cum laude*  
Tyler Young *magna cum laude*

### **Bachelor of Science**

#### **Mechanical Engineering**

Tariq Al Balushi *cum laude*  
Khalid Alhamandi  
Noah Allen  
Ryan Barnes *magna cum laude*  
Aaron Barrow *cum laude*  
Cameron Beard  
Christopher Beard  
Noah Bissell *magna cum laude*  
Clayton Bjerkeset *cum laude*  
Kilian Bouedo *cum laude*  
Brennan Brodt *magna cum laude*  
Carlos Cerna-Jeronimo  
Julianne Cinoman *cum laude*  
Nathan Comer *summa cum laude*  
Nilesh Contractor *magna cum laude*  
Alyssa Cox *summa cum laude*  
Brandon Culig *summa cum laude*  
David Delgado *summa cum laude*  
Jacob Democko *summa cum laude*  
Nicholas Fisher *cum laude*  
Jared Fishkin *cum laude*  
Nicholas Griffin *cum laude*  
Chuan He *magna cum laude*  
Jacob Hofer *cum laude*  
Seth Hollandsworth *summa cum laude*  
Matthew Houston  
Kenneth Hubbard  
Evan Huseboe *magna cum laude*  
Trey Hutchens *summa cum laude*  
Evan Imlay *magna cum laude*  
Thomas James *summa cum laude*  
Caleb Jimenez  
Zachary Jones *cum laude*  
Harrison Kaufmann *magna cum laude*  
Tanner King *summa cum laude*  
Travis Kiser  
Joshua Lebar *summa cum laude*  
Natania Lee *cum laude*  
Adam Leidich *summa cum laude*  
Joseph Leptich III  
Xinyu Molly Li *cum laude*

Mason Longo *cum laude*

Ryan Lynch *summa cum laude*

Collin McClure

Scott McDaniel *cum laude*

Patrick McIlhinney *magna cum laude*

Jake Meier *magna cum laude*

Joshua Mitchell

Elton Padua

Jacob Palko *cum laude*

Marelis Perez-Hernandez

Brett Rayfield *summa cum laude*

Brenden Resnick *summa cum laude*

Jack Sagraves

Nicholas Sanford *summa cum laude*

Jordan Schuh *magna cum laude*

Cameryn Sharkey *cum laude*

Emily Solis

Joshua Spann

Ethan Stoddard *summa cum laude*

Erika Struble

Shengkai Su *summa cum laude*

Joseph Swier *cum laude*

Gaelen Thomasian

Jacob Twiford

Miguel Vasquez *cum laude*

David Vaughan *magna cum laude*

Austin Waddell

Garrett Ware

Conrad Weiden *summa cum laude*

Sam Weybright

Laura Williams *magna cum laude*

Jiacheng Wu *cum laude*

Nicholas Zelasky *cum laude*

Jiading Zhou *cum laude*

## ***Summer 2020 Graduates***

### **Bachelor of Science**

#### **Aerospace Engineering**

Rixing Chen *cum laude*  
Wesley DiNardo *magna cum laude*

### **Bachelor of Science**

#### **Mechanical Engineering**

Jacob Briley  
Frederick Crowell  
Corey Hopper *magna cum laude*  
Jack Kiker  
Joshua Kimbrough *magna cum laude*  
Tavisay Klar  
Guoxiong Ma *cum laude*  
Danielle Pereira  
David Smith *magna cum laude*  
Hackney Tulloss  
Jared Wells  
Nitin Yalamanchali

## ***Spring 2020 Graduates***

### **Bachelor of Science**

#### **Aerospace Engineering**

Kevin Alexander *magna cum laude*  
Jake Archer  
Chase Ballentine *magna cum laude*  
Michael Barton *summa cum laude*  
Jacob Belser *summa cum laude*  
Elizabeth Blenk *magna cum laude*  
Gabriel Buss *magna cum laude*  
Joshua Cannon *cum laude*  
Hayden Carll *magna cum laude*  
Richard Carpenter  
Lila Crick *summa cum laude*  
Jacob Daye *magna cum laude*  
Michael Eovine  
Derek Esterly *magna cum laude*  
Anna Freundt *magna cum laude*  
Zane Garris *cum laude*  
William Gothard *summa cum laude*  
Auston Gray *summa cum laude*  
Conner Grey *cum laude*  
Abhinav Gundala *magna cum laude*  
Nathaniel Holmes *cum laude*  
Kirby Hullender  
John Inness *magna cum laude*  
Anna Jackson *magna cum laude*  
Morgan Jarman *magna cum laude*  
Emalla Jeffries *cum laude*  
Ethan Johnson  
William Jordan *summa cum laude*  
Philip Kraemer  
Won Lee  
Sydney Lyda  
Carlos Mayorga Gattas *summa cum laude*  
Thomas Meyers *cum laude*  
Darren Miller *summa cum laude*  
Joshua Miller *magna cum laude*  
Jason Mills *magna cum laude*  
Andrew Navratil *summa cum laude*  
Paul Neil *summa cum laude*  
Lorna Nguyen *magna cum laude*  
Sreevishnu Oruganti *summa cum laude*  
Jacob Pilsbury  
Andrew Pointer  
Noah Prezant *summa cum laude*  
Alec Pursell *magna cum laude*  
Nicholas Reid *cum laude*  
Nathaniel Rhoades  
Samuel Richardson *summa cum laude*  
Kyle Rivers  
Michael Robertson *magna cum laude*  
Anton Scholten *magna cum laude*  
Ashby Scruggs *magna cum laude*  
David Torres *magna cum laude*  
Travis Tucker

Justin Van Housen  
Dakota Vandawalker  
Mikhael Vasquez-Kool *cum laude*  
Max Weintraub *magna cum laude*  
Ryan Welker *magna cum laude*  
Matthew White *magna cum laude*  
Matthew Wyland *magna cum laude*  
Evan Youngberg *summa cum laude*

### **Bachelor of Science**

#### **Mechanical Engineering**

Gianni Absillis *magna cum laude*  
Zafar Ahsan *cum laude*  
Ahmed Al-Hilali *summa cum laude*  
Ahmed Alkharusi *cum laude*  
Mohammed Ibraheem Alslami *magna cum laude*  
Shreyas Ashok *summa cum laude*  
Bradley Baker *cum laude*  
Luke Baker  
Julian Balsamo *magna cum laude*  
Katie Barbrey *summa cum laude*  
Mario Battigelli *cum laude*  
Andrew Baucom  
Elizabeth Bellott  
Camden Bergey *summa cum laude*  
David Berrian *summa cum laude*  
Bassam Bikdash *summa cum laude*  
Daniel Bissette *magna cum laude*  
Austin Bogue *summa cum laude*  
Austin Bordeaux  
Andrea Bowdon *summa cum laude*  
Michael Boykin  
John Braun  
Cory Burns *cum laude*  
Hayden Carlson *summa cum laude*  
Chase Carpenter *magna cum laude*  
Andrew Carroll *cum laude*  
Jacob Chambers *magna cum laude*  
Tanner Compton *summa cum laude*  
Zachary Coppola *cum laude*  
Marshall Courtney  
Anthony Courville  
Casey D'Amato *magna cum laude*  
Ford Danielsen *cum laude*  
Andrew Davis  
Tyler Davis *magna cum laude*  
Thomas Dean *summa cum laude*  
Adam Delgado  
Blake Deuser *magna cum laude*  
Adam DeVries *cum laude*  
Nicolas Donato *cum laude*  
Tyler Dorsey  
Julia Doyle *magna cum laude*  
Eduard Drachuk  
Blake Draves  
Katherine Dubrouillet *magna cum laude*  
Parker Eaton *magna cum laude*

Stephanie Eberly *summa cum laude*

Ethan Eldridge *cum laude*

Ryan Etheridge *summa cum laude*

Royce Ferguson *summa cum laude*

Nathaniel Figueroa

Anthony Fiorentino *cum laude*

Victor Flucus *cum laude*

Tyler Foland *summa cum laude*

Duncan Forster *cum laude*

Robert Foster *magna cum laude*

Mart Fowler

Joardan Garcia *summa cum laude*

Matthew Gibson

Lily Goff *magna cum laude*

Bruno Gomes *magna cum laude*

Archer Gordon

Evan Grant *summa cum laude*

Evan Greer *cum laude*

Arsh Grewal *magna cum laude*

Grayson Haines *magna cum laude*

Alex Hamrick

Christopher Handy *cum laude*

Ryan Harradine *summa cum laude*

Jonathan Henk *magna cum laude*

Boyden Henley *cum laude*

Dillon Herbert *magna cum laude*

Rachel Hernandez *cum laude*

Kirkman Hice *magna cum laude*

Matthew Hicks

Christian Hill *magna cum laude*

Ty Holcomb *cum laude*

Blair Hollar

Andrew Houston *magna cum laude*

Tucker Howard

Matthew Hrycyna *magna cum laude*

Jiale Hu *summa cum laude*

David Huemme *summa cum laude*

Millie Huggins

Luis Jimenez *magna cum laude*

Kellie Johnson *cum laude*

Samuel Johnson

Tyler Johnson *summa cum laude*

Brandon Jones

Zachary Jones *cum laude*

Rahul Kadari

Adam Kane

Zain Kazi *magna cum laude*

Sang Kim

Ryan Kinney *cum laude*

Benjamin Kirby

Cassie Kirkconnell *cum laude*

Caroline Kirkland *cum laude*

Mikael Koeneke *summa cum laude*

Ryan Kulp *cum laude*

Maitrey Kumar *summa cum laude*

David Lambeth *cum laude*

Esther Lee *summa cum laude*

Tanner Leonard

David Lambeth *cum laude*  
Esther Lee *summa cum laude*  
Tanner Leonard *magna cum laude*  
Gaius Li *magna cum laude*  
Adam Lineberger  
Ryan Linn  
Ruguan Liu  
Shiliang Long  
Nicholas Loverde  
Marcus Lowry *cum laude*  
Karan Malhotra *magna cum laude*  
Anthony Martino *magna cum laude*  
Joshua Mathew *magna cum laude*  
Halen Mattison *summa cum laude*  
Bryce Mauldin *cum laude*  
Adam Mayhue *magna cum laude*  
Darren McCaughan  
Belk McDill  
Foil McLaughlin III *magna cum laude*  
Nathan McLawhorn  
Justin McPherson *cum laude*  
Lucas Corbo Romalho de Mello *summa cum laude*  
Jason Meyer  
William Midgett  
Steven Monahan *magna cum laude*  
Danny Murillo-Perez *summa cum laude*  
Rawan Musa *cum laude*  
Khyber Nasser  
Jacob Naughton *magna cum laude*  
Jordan Nichols *cum laude*  
Kade Nottingham  
Garrett O’Bryant  
Yuhan Pan *summa cum laude*  
Kushal Patel  
Avery Patton *cum laude*  
Tyler Perry *cum laude*  
Bailey Peters *magna cum laude*  
Michael Petruny *magna cum laude*  
Brandon Pitts *summa cum laude*  
Vicente Poloni *cum laude*  
Justin Powers *cum laude*  
William Pratt *cum laude*  
Joseph Rathbone *summa cum laude*  
John Reeves *cum laude*  
Wilson Richards *cum laude*  
Jeremy Ricks *cum laude*  
Ben Roberts  
Hunter Rollins *summa cum laude*  
Nicholas Rosato *magna cum laude*  
Alexander Ruby *magna cum laude*  
Dakota Rufino *summa cum laude*  
Shubhro Saha *summa cum laude*  
Kyle Sammarco  
Bertram Scott *cum laude*  
Jared Shingledecker *cum laude*  
Giovani Silva  
Andrew Siverling *summa cum laude*

Jonathan Jack Skifano *summa cum laude*  
Brianna Sklar  
Tucker Smith  
Derek Sollom *cum laude*  
Nicole Spell *cum laude*  
Marie Spokas *summa cum laude*  
Ryan Stein *cum laude*  
Rebecca Stewart *summa cum laude*  
Colin Storm  
Joshua Strother *magna cum laude*  
Cadman Styers *cum laude*  
Lishan Sun *magna cum laude*  
Zachary Taft  
Daria Talaski *magna cum laude*  
Lawrence Thomas *summa cum laude*  
Abby Thomas *summa cum laude*  
Marcus Tisdale *magna cum laude*  
Timothy Valentin  
Luke Van Voorhis *summa cum laude*  
Leena Vo  
Paul von Hardenberg *summa cum laude*  
Trevor Vook *summa cum laude*  
Devin Warren *cum laude*  
Connor Wheatley  
Kemp Wickizer  
Jennifer Woods *magna cum laude*  
Benjamin Wooten *magna cum laude*  
Brian Wu *summa cum laude*  
Austin Wyrick  
Kai Xin *cum laude*  
Sydney Yount *summa cum laude*  
Haozhi Zhang *summa cum laude*