

CONTACT
INFORMATION*Email:* ddyoung@iastate.edu

EDUCATION

Iowa State University, Ames, IowaDoctor of Philosophy in Mathematics, Department of Mathematics,
expected in May 2019*Advisor:* Dr. Leslie Hogben**Iowa State University**, Ames, Iowa

Bachelor of Science, Department of Mathematics, May 2013

Advisor: Dr. Clifford Bergman*Advisor:* Dr. Leslie Hogben*Advisor:* Dr. Sung Yell Song**Florida State College at Jacksonville**, Jacksonville, Florida

Associate of Arts, May, 2010

Advisor: Gregory DietrichRESEARCH
INTERESTS

Linear Algebra, Graph Theory, Combinatorics

RESEARCH
EXPERIENCE**Graduate:****Iowa State University**

Fall 2015, Department of Mathematics

*Lower Bounds for the Exponential Domination Number of $C_m \times C_n$:*Chassidy Bozeman, Joshua Carlson, Michael Dairyko, Derek Young,
Michael Young.**Undergraduate:****Iowa State University**

August 2011 - May 2013, Department of Mathematics

Flows in Networks: Dr. Sung Yell Sung (Iowa State University)**Cornell University**

June 2013 - July 2013, Department of Mathematics

Finite Approximations of Ammann-Beenker Tiling : Dr. May Mei
(Denison University)**University of Louisiana at Lafayette**

May 2012 - July 2012, Department of Mathematics

Division Algorithm Decoding of Reed-Solomon Codes: Eduardo Reynoso
(California State University of Channel Islands), Brandy Thibodeaux
(University of Louisiana at Lafayette), Amanda Urquiza(Arizona

State University), Ashley Wheatley(Tennessee State University),
 Matthew Jake Lennon(University of Louisiana at Lafayette), Dr.
 Christina Eubanks-Turner(University of Louisiana at Lafayette)

North Carolina State University

May 2012 - July 2012, Department of Mathematics

Randomize Matrix Multiplication: Dr. Ilse Ipsen (North Carolina State University)

RESEARCH PAPERS

Published

Families of graphs with maximum nullity equal to the zero forcing number: Joesph Alameda, Emelie Curl, Armando Grez, Leslie Hogben, O'Neill Kingston, Alex Schulte, Derek Young, Michael Young.

Division Algorithm Decoding of Reed-Solomon Codes: Christina Eubanks-Turner, Matthew Jake Lennon, Eduardo Reynoso, Brandy Thibodeaux, Amanda Urquiza, Ashley Wheatley, Derek Young.

arXiv

Lower Bounds for the Exponential Domination Number of $C_m \times C_n$: Chasidy Bozeman, Joshua Carlson, Michael Dairyko, Derek Young, Michael Young.

CONFERENCES, WORKSHOPS AND TALKS

Contributed Talks:

- *Lower Bounds for the Exponential Domination Number of $C_m \times C_n$* : 47th Southeastern International Conference on Combinatorics, Graph Theory and Computing Boca Raton, Fl, March 7-11, 2016
- *Flows in Networks* : 7th Annual GMAP Research Symposium, Ames, IA, May 19, 2013.
- *Division Algorithm Decoding of Reed Solomon Codes:* 2012 Young Mathematicians Conference, Columbus, OH, July 27-29, 2012.

Contributed Posters:

- *Determining the maximum nullity and minimum rank field independence for some graphs:* Conference for African-American Researchers in the Mathematical Sciences, Princeton, NJ, July 11-14, 2018.
- *Families of graphs with maximum nullity equal to zero forcing number:* International Linear Algebra Society, Ames, IA, July 24 - 28 2017.
- *Families of graphs with maximum nullity equal to zero forcing number:* Conference for African-American Researchers in the Mathematical Sciences, Ann Arbor, MI, June 21 - 24, 2017.
- *Lower Bounds for the Exponential Domination Number of $C_m \times C_n$:*

Conference for African-American Researchers in the Mathematical Sciences, Princeton, NJ, June 15 - 18, 2016.

- *Finite Approximations of Ammann-Beenker Tiling*: Conference for African-American Researchers in the Mathematical Sciences, Princeton, NJ, June 11 - 14, 2014.
- *Randomize Matrix Multiplication*: Society for Advancement of Chicanos and Native Americans in Science, San Jose, CA, October 27-30, 2011.

Workshops and Conferences Attended

- Field of Dreams, St. Louis, MO 2016
- Conference for African-American Researchers in the Mathematical Sciences, Princeton, NJ, 2016
- 47th Southeastern International Conference on Combinatorics, Graph Theory and Computing Boca Raton, FL, 2016
- Conference for African-American Researchers in the Mathematical Sciences, Princeton, NJ, 2014
- Field of Dreams, Phoenix, AZ, 2013
- Young Mathematicians Conference, Columbus, OH, 2012
- Field of Dreams, Phoenix, AZ, 2012
- Society for Advancement of Chicanos and Native Americans in Science, Seattle, WA, 2012
- Midwestern Graph Theory Conference, Ames, IA, 2012
- Field of Dreams, Phoenix, AZ, 2011
- Society for Advancement of Chicanos and Native Americans in Science, San Jose, CA, 2011
- Conference for African-American Researchers in the Mathematical Sciences, Rice University, Houston, TX, 2009

TEACHING EXPERIENCE

Iowa State University - Stand-alone

- Summer 2018 - *College Algebra*
- Spring 2017 - *Calculus I*

Iowa State University - Recitation

- Spring 2018 - *Calculus II*
- Fall 2017 - *Business Calculus (Lab)*
- Fall 2016 - *Calculus II*
- Spring 2016 - *Calculus II*
- Fall 2015 - *Preparation for Calculus (Project Pathways)*
- Spring 2015 - *Preparation for Calculus (Project Pathways)*
- Fall 2014 - *Preparation for Calculus (Project Pathways)*
- Spring 2014 - *Calculus I*
- Fall 2013 - *Business Calculus (Lab)*

TUTORING EXPERIENCE	Iowa State University August 2010 - May 2013, Department of Mathematics <i>Tutor: Calculus I-III and higher level courses</i>
	Iowa State University August 2010 - May 2013, Academic Success Center <i>Tutor: Algebra, Trigonometry, Calculus I, Linear Algebra</i>
	Florida State College August 2009 - July 2010, Department of Mathematics <i>Tutor: Algebra and Calculus I-III</i>
HONORS AND AWARDS	Summer 2018 - Poster Award for "Best Theory", Conference for African-American Researchers in the Mathematical Sciences(CAARMS)
	Spring 2016 - Solve-a-Thon Grant, Iowa State University
	Spring 2016 - Pathways Scholar for Transforming Undergraduate Mathematics Education Certificate, Arizona State University
	Spring 2012 - College of Liberal Arts and Sciences Deans List
	Spring 2009 - Ronald E. McNair Scholar, Iowa State University
MEMBERSHIPS	American Mathematical Society - <i>Member</i>
	International Linear Algebra Society - <i>Member</i>
	Mathematician of Color Association, Iowa State University - <i>Website Manager</i>
	Conference for African-American Researchers in the Mathematical Sciences(CAARMS) - <i>Member</i>
	Undergraduate Math Alliance Member - <i>Member</i>
	Society for the Advancement of Chicanos and Native Americans in Science(SACNAS) - <i>Member</i>
LANGUAGE SKILLS	English: native speaker
	Computer: Sage, Shell Scripting, LaTeX, HTML
VOLUNTEERING EXPERIENCE	Ronald E. McNair Mentor, Fall 2013 - 2014