

Brigham Young University College of Physical and Mathematical Sciences Convocation

April 27, 2023

Wilkinson Student Center Ballroom

2:00 p.m.

Departments of Mathematics, Mathematics Education, Physics and Astronomy, and Statistics

Convocation Participants

Erika Breann Crystal is the daughter of Jeremy and Angela Crystal of Springville, Utah. She is receiving her bachelor's degree in mathematics education. Recipient of the Melvin R. Park Teaching Scholarship as well as the Terrel H. Bell Scholarship, Erika has been working on the Mathematical Opportunities in Student Thinking (MOST) research project. She and her partner presented findings from the MOST project and were the winners of their session. Erika just completed student teaching ninth grade at Mountain Ridge Junior High School. She enjoys volleyball, pickleball, boating, and card games and will pursue a master's degree in mathematics education at BYU.

Rylie Ann DelaCruz is the daughter of Kris and Becky Hinds of Mapleton, Utah, and is married to Joseph DelaCruz. She is graduating with a bachelor's degree in statistics with an emphasis in biostatistics and a second major in music. She has been the recipient of the Nestlé Scholarship as well as several merit scholarships through the School of Music. Rylie plays the piano and the bass at BYU and has been part of a string quintet. She has sung with the BYU Women's Chorus, played with the BYU Philharmonic Orchestra, and participated with several small musical groups. She has worked on the American Family Survey and has done research in the field of music cognition. Rylie will be attending graduate school at Goldsmiths, University of London, for music cognition studies.

Seneca Kate Heilesen is the daughter of Hank and Brooke Heilesen of Glen Allen, Virginia. She is graduating with university honors and is receiving a bachelor's degree in physics and astronomy with a minor in music. Recipient of a National Merit Scholarship as well as the Thomas S. Monson Scholarship, she has worked with Dr. Darin Ragozzine and is currently preparing a paper about her research. Seneca served in various leadership roles in the BYU Astronomical Society, sang in the BYU University Chorale, and has played the BYU carillon. She served in the Canada Vancouver Mission from 2019 to 2021. Seneca enjoys cooking, hiking, and reading and plans to attend graduate school in astronomy.

Quinlan Thomas Leishman is the son of Michael and Laurel Leishman of Bountiful, Utah. He is receiving his bachelor's degree in mathematics with an emphasis in applied and computational mathematics and with a concentration in chemistry. He has been the recipient of the Thomas S. Monson Scholarship and a Mathematics Department scholarship and has worked with Dr. Benjamin Webb doing research in machine learning. Quinlan has participated in many mathematics contests, most notably the Putnam contest, in which he placed in the top 200 nationally. He has sung with the BYU Men's Chorus and served in the Washington Seattle Mission from 2018 to 2019. He enjoys playing piano, reading about math, and playing video games. He plans to attend graduate school in mathematics.

Rachel Melissa Molen is the daughter of Melissa and Michael Young of Lehi, Utah, and is married to Cameron Molen. Rachel is receiving a bachelor's degree in mathematics with an emphasis in applied and computational mathematics, an emphasis in business management, and a minor in music. She is a recipient of the SAME Scholarship as well as of multiple academic scholarships from BYU. She worked at Maersk as a continuous improvement engineer intern and sang in the BYU Women's Chorus. Rachel loves to bake, sing, and hike with her husband. This summer she will be interning as a verification engineer for PassiveLogic and looks forward to becoming a mother in October.

Jace Emery Ritchie is the son of Scott and Robyn Ritchie of Rigby, Idaho, and is married to BaeLeigh Ritchie. He is receiving a bachelor's degree in statistics with an emphasis in data science and a minor in mathematics as well as a master's degree in statistics. He is the recipient of a National Merit Scholarship and has received a BYU full-tuition scholarship. He has been working with Dr. Richard Warr researching several statistical topics, including sports prediction, automobile crash hotspot identification, and assurance testing. Jace enjoys running, playing with his dog, and cooking. He plans to go on with his education and attend a statistics PhD program.

Departments of Mathematics, Mathematics Education, Physics and Astronomy, and Statistics 2:00 p.m.

Please remain seated during the processional.

University Representative

Welcome and Conducting

Invocation

Speaker

Speaker

"Because I Have Been Given Much" Music by Phillip Landgrave Text by Grace Noll Crowell Arranged by Rylie Ann DelaCruz

Remarks

Presentation of Doctoral, Master's, and Baccalaureate Degrees Carl Hernandez Vice President of Belonging

Grant J. Jensen Dean

Quinlan Thomas Leishman Mathematics

Seneca Kate Heilesen Physics and Astronomy

Erika Breann Crystal Mathematics Education

Rachel Melissa Molen, voice Mathematics Rylie Ann DelaCruz, piano Statistics

Grant J. Jensen Dean

Please hold applause until each department completes its awards.

Audience members are welcome to use the front row to take pictures of graduates. Please wait until your graduate is within 10 students of arriving onstage before entering the front row.

Closing

Benediction

Grant J. Jensen Dean

Jace Emery Ritchie Statistics

Please remain seated during the recessional and meet your graduate in the Garden Court after all graduates have exited the ballroom.

Graduates

DOCTORAL DEGREES

Mathematics

MATHEMATICS

DOCTOR OF PHILOSOPHY **APRIL 2023** Xueming Hui Devin Burnell McGhie

JUNE 2023 Joy Song

Physics and Astronomy

PHYSICS

DOCTOR OF PHILOSOPHY

DECEMBER 2022 Raju Baral Adam David Kingsley Brian D. Patchett

APRIL 2023 Christian N Anderson

JUNE 2023 Mylan Ray Cook

MASTER'S DEGREES

Mathematics

MATHEMATICS

MASTER OF SCIENCE

DECEMBER 2022 Marja Belinda Crawford Joseph Paul Drapeau Abigail Jenkins Andrew David Johnston Alexander Daniel Lee

APRIL 2023

Brigham Stone Carson Seong Eun Cho Mats Christian Haneberg Andrew Joseph Haviland Daniel Miller Jensen Eric Benson Manner Dahlia Lynne Maxwell Martha Grace Morrise Chelsey Elaine Noorda Matthew James Steffen James Spencer Tyler Michael David Walton Zachary Richard Yauney

JUNE 2023 Kolton Rich Baldwin Jacob Paul Callahan Granton Michael White Raelynn Wonnacott

Mathematics Education

MATHEMATICS EDUCATION

MASTER OF SCIENCE

DECEMBER 2022 Navy B Dixon Leilani Camille Heaton Fonbuena Dana Esther Steinhorst

APRIL 2023 Jennifer Rose Canizales

JUNE 2023 Sini Nicole White Graff

AUGUST 2023 Michelle R Bagley Ashlynn Marie Holley Rachel Hansen Jorgenson

Physics and Astronomy

PHYSICS

MASTER OF SCIENCE

DECEMBER 2022 Daniel Steven Hodge Colby Singint Walker

APRIL 2023 Kolten Lex Barfuss Parker Kip Hamilton Chanhyun Pak Lydia Sue Serafin Savanah Kay Turner

JUNE 2023 Jared R Davidson

AUGUST 2023 Joshua David Forsyth James Gordon Harkness Braedon Craig Jones Logan Coleman Page

Statistics

STATISTICS

MASTER OF SCIENCE

APRIL 2023 Bethany Day Bassett Joshua Robert Christensen Caleb William Dayley Garrett B. Duncan Abe Callis Durrant Ryan Matthew Hanson Nathan Darren Hawkins Samuel Bryson Johnson Noah Jackson Leavitt Emily Iut-Hin Liu Amber Jensen Mickelson Jacob Mark Miller Matthew Ryan Morgan Jace Emery Ritchie Max Hixson Smith

BACHELOR'S DEGREES

Mathematics

MATHEMATICS

BACHELOR OF SCIENCE

DECEMBER 2022 Kaleb Stanley Adams Emma Elizabeth Burgess Nathaniel Brett Carlson Cingzi Kiyoshi Chau Daniel Richard Christensen Corinne Grace Deschamps Iris Cisneros Duran Jared Blake Garlick Spencer Halverson Cody Stenberg Hansen Nathan Eugene Haskell I Tanner Howell Iaden Matthew Johnson Isabelle Renee Moats Tiffani Rose Pritchard Benjamin Gardner Summers

APRIL 2023 Spencer Eli Arnesen Talia Elizabeth Bird Cayden Karl Blake Gordon Brent Bridge Max Joseph Brown Tyler Andrew Child Max James Christopherson Broderik Spencer Craig Nathaniel Taylor Driggs Riley Scott Dunnaway John Christoph Ebeling Tyler Andrew Evans Gary Chason Ford Nicholas John Freeman David Elijah Friedbaum Sean Matthew Gallacher Sophie Grace Gee Cole Merrill Hanson Bryce Charles Hepner Cameron Joseph Hogan Joseph James Housley Tyler Benjamin Humpherys Almary Lynn Illum Nolan Jonathan Ison Christopher Wallace Johnson Abigail Ruth Jones Timothy Jay Keith James Berkeley Larsen Quinlan Thomas Leishman Zane Alexander Madison Bryant Leland McArthur

Kimberly Amanda McKeen Jonathan L. Merrill Caleb David Meyer Graydon Kimball Millard Gabriel N Miller Rachel Melissa Molen Ian Douglas Monk Sibi Pranav Muthuprakash Maxwell Phillip Nielsen Amber Elizabeth Oldroyd Jeremy Richard Parry Hunter Grant Pitt Jeremy Logan Read Isaac Kent Rowberry Jordan Gregory Sheppard Abigail A Olson Shipley Bethany Kate Smith Paul Andrew Smith ZiRui Su Jared Thomas Suchomel Jonah Britton Sundrud Neil Victor Thompson Jordan Alexander Wadsack-Stewart Noah Lamar Walker Braden Keith Webb Dylan Christopher Webb Amy Elizabeth Woodall Spencer Michael Young

JUNE 2023

Mary Ann Climer Shilong Cui Michaela Page Davis Samuel Alvin Goldrup Sheridan Guy Harding Christian Alexander Howell Sukyoung Kwak Momoka Matsushita Joshua John Moak Nicholas Marc Savoie Adam Fielding Skousen Jane Emeline Slagle Jessica Lyn Smith Joshua Joseph Shumway Smith Carter William Syrie

AUGUST 2023 Matthew Thomas McGrath Harry James White

Mathematics Education

MATHEMATICS EDUCATION

BACHELOR OF SCIENCE

DECEMBER 2022 Paul Louis Brede Gentry Tess Childs Katherine Lynne Kristine Keenan Allyssa Sonnefeld Leavitt Caleb Michael Litster Kendall Caroline Ortiz Malissia M. Perkins Sariah Rahman Alexander Ashby Swindler Shanae Taylor

APRIL 2023

Anna Marie Christensen Erika Breann Crystal Makyla Jane Duncan John Nelson Graff Madison Riley Grundvig Madeline Johnson Si Yan Grace Lam Alison Nicole Mettmann Katelyn Marie Peterson Ashlyn Renee Rounds Heather Nicole Santos Nikayla Judy Brimhall Solomon Sariah Stevenson Marissa Emma Teerlink Jade Morgan Tye

AUGUST 2023 Elissa Betselot Reynolds

Physics and Astronomy

APPLIED PHYSICS

BACHELOR OF SCIENCE DECEMBER 2022 Edward Thales Krzymowski

APRIL 2023 Russel Aaron Anderson Joseph Elijah Avila Joshua Frantz Belot Collin P Bradford Michael Joseph Greenburg Christian Lewis Leigh Jared Samuel Logan Caitlin Angelotti Mastroianni Grant Scott Miller Kendall Jay Mitchell Megan Rachel Waiohinukahawai Robertson Blake Paul Romrell Landon Flake Schnebly Donovan Kirby Smith Lincoln Spencer Stewart Douglas Michael Webb

JUNE 2023 Adam Eugene Dunford Alexandra Michelle Hopps Christopher Daniel McInnes Karolyn Aure Mocellin

AUGUST 2023 Carson F Cunningham Mara Kate Dille Jeffrey Taggart Durrant Naomi Michelle Jensen Brenden Michael Stark

PHYSICAL SCIENCE EDUCATION

BACHELOR OF SCIENCE

DECEMBER 2022 Kylee Renae Rigby Brooke Ann Roper

APRIL 2023 Rebecca Jane Frodsham Bailey Nicole Lowe

PHYSICS

BACHELOR OF SCIENCE DECEMBER 2022

Michael Melino Vaka

APRIL 2023 Virginia Billings Michael Jesse DeFord

Jacob Michael Feltman Carson David Gardner Corey James Hawkins Samuel Thomas Jeppson Kristina Michelle Nuttall Aaron Chad Peatross

JUNE 2023

Andrew Thomas Basham Scott Peterson Hollingsworth Christian Dennis McCombs Levi Thomas Moats Jacob Reed Nuttall Matthew Trevin Ricks

AUGUST 2023 Isaiah Clawson Galland Joshua David Hancock Daniel John King Devin Matthew Lewis Chapman Kyle Lindsay Alexandra Kathryn Kanani Gallion Stapley

PHYSICS AND ASTRONOMY

BACHELOR OF SCIENCE

DECEMBER 2022 Jacob Samuel Jensen

APRIL 2023 Elisabeth Elanor Banks Burke Blaine Boyer Edison Paul Carlisle Kristi Ann Epps Seneca Kate Heilesen Joshua Stephen Jones Conner Blake Scoresby Daniel Christian Yankura Emma Marilyn Alexander Zappala

JUNE 2023 Colton Kyle Carter Olivia Rae Fenn William George Giforos AUGUST 2023 Justin Carl Tackett Elliot Jeffrey Tidd Denzil Eugene Watts IV

PHYSICS EDUCATION

BACHELOR OF SCIENCE

APRIL 2023 Rylie Shareen Speirs Tolman

JUNE 2023 Carson Karl Chandler Madelinn Alisa Wieda

Statistics

ACTUARIAL SCIENCE

BACHELOR OF SCIENCE

DECEMBER 2022 Andrew David Ellingson

APRIL 2023 Trent Jeffrey Bosen Jackson Crowther Sarah Jean Didericksen Fullmer Zachary Kazuya Hauck Ryan Vance Larson Amber Jensen Mickelson Benjamin Michael Mills Gretl Celeste Schopp Zachary Todd Thomas

AUGUST 2023 Mason Dale Alldredge

STATISTICS

BACHELOR OF SCIENCE

DECEMBER 2022 Emily Watabe Ballard Heidi Folsom Bradshaw Collin Stuart Campbell Austin Roger Carter Yong Nan Chang Parker Adam Cherrington Zackary Aaron Driscoll Carter Troy Erickson Christian Giovanni Fabiano Isaac Scott Hales Hannah Elizabeth Harmon Nicholas Richard Hass Matthew Grant Jewell Zayne Keith Freedom Kirkham Dallin B Larsen Stephen T Laufiso Jeya Lee Che Wei Liu Luke Joseph McDowell Jacob Daniel Neff Theodore Scot Nielson Kelly Dianne Pratt

Max Stevens Price Christian Lloyd Rasmussen Anthony Norris Rueckert Camden Noah Smith Rosie Stewart Nathan Jay Swihart Tanner James Thygerson Yun Chieh Tsai Alison Anne Tubilla Courtney Michelle Webb Rani Floyd Westenskow Scott David Zambrano

APRIL 2023

Caitlyn Anderson Seth Hyrum Argyle Joseph Thomas Arnesen Norynelsi Arroyo Cruz Alek McLaren Bacon Baylee Bidstrup Bryce Jared Bingham Rebekah Blake Shandon Blake Bringhurst Bradley Roger Brown Maxim Bucanov Bryson John Burr Cameron Scott Butler Hannah Corinne Capper Nathaniel R Carter Claudia Darlene Caten Ethan Ka Wai Chan Nicholas Wayne Chan Joshua Robert Christensen Landon Taylor Collins Aubree Lynne Curtis Caleb William Dayley Joseph Thomas DelaCruz Rylie Ann DelaCruz Kaylee Dial Garrett B. Duncan Joseph Daniel Eads Kallie Lehanna Farra Mary Katherine Fisher Mason Todd Flannery Grant Foulger Brendan Darin Giles Havley Gill Taylor Clare Halvorson Nicholas Steven Hamson Ryan Matthew Hanson Dallas Brady Hartmann Nathan Darren Hawkins Robert Howard Hazen Jr. Shannon Marie Ireland Matthew Marshall Jackson Isaac Scott Johnson Samuel Bryson Johnson Henry Richard Jones Abby Claire Kennedy Michella Kopti Abigail Noel Lambert Noah Benjamin Lawrence Alexis Adriana Layton Aidan Nathaniel Lee-Wen Emily Iut-Hin Liu

Tanner David Markham Maren Irene Maxfield Ethan James Mayfield Corinne Elise McClelland Howard Hunter Mckeon Rachel Christine Miles Andrew Michael Millane Meysa Sierra Mulford Katelyn Mei Nelson Nathan Russell Norton Brannon Thomas Olive Isaac William Orton Samuel Roberts Parry Brigham Steele Perry Cameron Miles Pitcher Andrew Theodore Pope **Benjamin Thomas Porter** Jace Emery Ritchie Emily Elizabeth Sainsbury Gabriel Whitlock Smith Zachary Lind Strickland Rollin Stanley Sutherin Jackson Charles Switzer Matthew Joseph

Van Leeuwen Isaac Todd van Uitert Abby Adelaide Wadsworth Nathan McKay Walls Jillian Maw Warburton Adam Stephen Weber Jack Herman Fletcher Wooley Jacob Daniel Wright Spencer Bramall Yeates Matthew Burton Zollinger Naomi Ann Zubeldia

JUNE 2023

Matthew H Allen Shirley Yan Li Ang Jillian Shay Bair Garrett Marshall Brand Matthew Brent Carlson Mary Katherine Ebbert Lauren Brooke Fuller Olivia Deniece Hanks John Matthew Linford Nathan R Nelson Rachel Leigh Robison Robert Howard Sainsbury Christopher Rand Stubbs Jr. Jonathan Robert Thornton Jonathon William Waddell Alana Michelle Warren Ellen M Wight Joseph David Wilson

AUGUST 2023

Oscar Briones Ramirez Joseph Stewart Cieslewicz Alden Nathaniel Makana Flores Cameron Quayle Jensen Mira Beatrice Larsen Katsuhiko Maeda Eric Tanner Reid Lucy J Storts

Scholastic Recognition

University Honors

Students graduating with University Honors have completed several interdisciplinary general education courses, leadership development experiences, an interdisciplinary essay, and a thesis and have also defended their thesis in their major discipline.

DECEMBER 2022 Paden Drew Allsup

APRIL 2023 Seneca Kate Heilesen

JUNE 2023 Sheridan Guy Harding Grace Marie Whitehead Ellen M Wight

AUGUST 2023 Daniel Pearson Taylor

Summa Cum Laude

DECEMBER 2022 Jaeyoung Park

APRIL 2023 Talia Elizabeth Bird Cayden Karl Blake Anna Marie Christensen Jacob William Christensen Joshua Robert Christensen Megan LaVon Dahl Nicholas John Freeman Sophie Grace Gee Justin Dean Hales Caleb John Hunt Adam Cardwell Johnson Trent Edward Johnson Si Yan Grace Lam Koby Joshua Lewis Jonathan Brent Nelson Steven Thomas Nelson Maxwell Phillip Nielsen Amber Elizabeth Oldroyd Samuel Roberts Parry Jace Emery Ritchie Matthew Joseph Van Leeuwen

Isaac Todd van Uitert Amy Elizabeth Woodall Spencer Michael Young

Magna Cum Laude

DECEMBER 2022 Spencer Ward Ashworth Emily Watabe Ballard Yong Nan Chang Ethan Randall Davis Spencer Halverson Malissia M. Perkins Joshua Spencer Richardson Benjamin Gardner Summers Nathan Jay Swihart Yun Chieh Tsai

APRIL 2023

Alexis Jeanne Alvarez Gordon Brent Bridge Alexander Douglas Daum Riley Jack Eastmond Sarah Jean Didericksen Fullmer Sean Matthew Gallacher Abigail Megan Hales Jacob Ednan Hamzawi Abigail Ruth Jones Joshua Stephen Jones James Berkeley Larsen Quinlan Thomas Leishman Trevor Scott McClellan Cameron Taylor Molen Parker Ryan Nasman Tustin James Neilson Clay Kent Poffenberger Megan Rachel Waiohinukahawai Robertson Landon Flake Schnebly Heather Noel Schone

Donovan Kirby Smith Rebekah Anne Sowards Ella Catherine Spigarelli Jackson Charles Switzer Dylan Christopher Webb Christopher John West Daniel Christian Yankura

Cum Laude

DECEMBER 2022 David Seek Hawley Justin Richards Hill Bryan Nishan Sheranian

APRIL 2023

Brigham Brad Andersen Nathaniel Ray Benham Bryson John Burr Jerome Masashi Campbell Edison Paul Carlisle Carolynn Luella Chang Nathan Michael Clark Theodore No-Fear Dawson Kyle Joseph Ellingson Jared Daniel Householder Nolan Ionathan Ison Madeline Johnson Samuel Bryson Johnson Truman Scott Kautzman Savannah Ruth Knight Nathan David Larsen Joshua Calvin Mann Amber Jensen Mickelson Rachel Melissa Molen Inoh Pak Jeremy Richard Parry Brigham Steele Perry Gabriel John Reed Matthew James Russon Gretl Celeste Schopp Marissa Emma Teerlink Neil Victor Thompson

Phi Kappa Phi

DECEMBER 2022 Andrew David Johnston Neal D Munson

APRIL 2023 Kolten Lex Barfuss Cayden Karl Blake Theodore No-Fear Dawson Nicholas John Freeman Andrew Joseph Haviland Stephanie Lynn Latour George Hobbs Major

Tustin James Neilson Maxwell Phillip Nielsen Ethan M. Pedersen Matthew Joseph Van Leeuwen Amy Elizabeth Woodall

AUGUST 2023 Logan Coleman Page Benjamin Jeffrey Shafer

Students who received or will receive the scholastic honors summa cum laude, magna cum laude, and cum laude will have this designation indicated on their individual diplomas and transcripts after final grades are posted. These honors for June and August candidates have not yet been determined and therefore are not listed in the program.