COLLEGE OF
NATURAL SCIENCES
& MATHEMATICS

GRADUATE RECOGNITION
2020

CALIFORNIA STATE UNIVERSITY
LONG BEACH
California State University, Long Beach is a member of the 23-campus California State University (CSU) system. The initial college, known then as Los Angeles-Orange County State College, was established on January 29, 1949, and has since grown to become one of the state’s largest universities.

The first classes in 1949 were held in a converted apartment building on Anaheim Street and the cost to enroll was just $12.50. The 169 transfer students selected from the 25 courses offered in Teacher Education, Business Education, and Liberal Arts which were taught by 13 faculty members. Enrollment increased in 1953 when freshman and sophomore students were admitted.

Expansion, in acreage, degrees, courses, and enrollment, continued in the 1960s, when the educational mission was modified to provide instruction for undergraduate and graduate students through the addition of master’s degrees.

In 1972, the California Legislature changed the name to California State University, Long Beach. Today, more than 37,000 students are enrolled at Cal State Long Beach, and the campus annually receives high rankings in several national surveys.

What students find when they come here is an academic excellence achieved through a distinguished faculty, hard-working staff, and an effective and visionary administration. The faculty’s primary responsibility is to create, through effective teaching, research, and creative activities, a learning environment where students grow and develop to their fullest potential.

This year, we will celebrate the accomplishments of the more than 9,000 graduates and candidates. They are earning doctoral, master’s, and bachelor’s degrees as well as credentials and certificates. We are proud of our graduating students, who now go forward to serve society.
A Message from the President...

Dear Graduate,

Warmest congratulations from your Beach family!

The completion of a college degree is a significant milestone, one that brings a lifetime of intellectual, professional, and personal rewards.

That your graduation comes at such an extraordinary moment in time makes your achievement all the more remarkable. I want you to know that your focus, persistence, resolve, and engagement over the past few difficult months have been an inspiration to faculty, staff, and classmates — and to me personally.

I also want to emphasize that your Beach journey does not end here. You are joining a large and accomplished alumni community, now more than 350,000 members strong, and I encourage you to take advantage of every opportunity to network with and build on our great tradition of Beach Pride. The future may be unknowable, but your degree and your alma mater will always be mainstays in your life, as will so many of the connections and friendships you formed here. “The Beach is for Life!”

My thanks and congratulations also extend to your families and friends — to all of those who have supported, encouraged, and loved you as you pursued your academic dreams and adapted to this semester’s changed instructional environment. You are all heroes in my book.

Graduate, you are entering a world greatly in need of your talents and contributions. Wherever your path may lead, I urge you to be strong, take heart, and continue doing all of the things that brought you the academic success we celebrate today. This graduating class will always have a special place in my memory.

Go Beach!

Jane Close Conoley, Ph.D.
President

A Message from the Chancellor...

Dear Class of 2020,

Congratulations on achieving this consequential milestone on the journey of a lifetime.

I am sure that, when you look back upon your commencement in the years to come, it will be with mixed emotions. Most often, you’ll be filled with pride and a powerful – and well-earned – sense of accomplishment. Perhaps sometimes you’ll relive a sense of amazement at attaining a goal that, at times, felt more than a little daunting. At other times, you may feel disappointment because of the unique and disruptive challenges brought on by the COVID-19 pandemic. I understand.

The culmination of your college experience was not as you had expected – a virtual celebration following months of virtual learning, made necessary by this global public health crisis of historic proportions.

On this last point, it is my hope that you will also remember the ingenuity, adaptability, resilience and indomitable spirit you, your classmates, and your faculty and staff have demonstrated during these unprecedented and challenging times. I know I will. I will forever admire the class of 2020, and you will always hold a special place in my heart. And I have every confidence that the qualities that you have shown through these difficult days will continue to serve you well as you encounter life’s inevitable periods of hardship and uncertainty.

So today, we celebrate you – and all the hard work, perseverance and scholarship that brought you to this day.

Of course, you did not make this journey alone. We also recognize the faculty who deepened your knowledge and inspired you to see the world from new perspectives. We acknowledge the counselors, advisors, librarians, coaches and support staff who championed you at every turn. And indeed, we appreciate the family, friends and loved ones who encouraged you, uplifted you and supported you along the way. Please remember to thank these important people, and let them know how much their support means.

We call today’s celebration a “commencement” because it is not an end, but rather a new beginning. As you start the next chapter of your life, I urge you to continue to wholeheartedly pursue knowledge, truth and innovation, and to strive to elevate your community, state, nation and – indeed – the world, as you achieve your personal and professional goals.

And I encourage you to stay in contact with your campus and the larger California State University community. Connect with classmates, seek out faculty as mentors and join alumni chapters. Look for opportunities to inspire and support future generations who seek to follow in your footsteps.

As a proud CSU graduate myself, I welcome you to the world’s largest and most influential alumni community – more than 3.8 million strong.

On behalf of the entire California State University, again, congratulations to the truly remarkable class of 2020.

Sincerely,

Timothy P. White
Chancellor
COLLEGE OF NATURAL SCIENCE & MATHEMATICS

The College of Natural Sciences and Mathematics is a center of scientific learning in Long Beach offering excellent educational opportunities. Our student-centered instructional and research environment fosters equity, diversity, and access; mentors students for lifelong success by elevating character, skills, and mindset; creates scientific knowledge through research; and promotes science and mathematics in our community. The College's goal is to educate the next generation of scientists and mathematicians, as well as a science-literate citizenry, through integrating outstanding teaching and research programs within the departments of Biological Sciences, Chemistry and Biochemistry, Geological Sciences, Mathematics and Statistics, Physics and Astronomy, Science Education, and the program of Environmental Science and Policy.

College faculty conduct research projects that offer opportunities for both graduate and undergraduate students to solve problems and be involved in cutting-edge research addressing important issues of today in a wide variety of subjects including heart and neurological diseases, astrophysics, mathematical modeling, improving science teaching, machine learning/data science, designing and understanding new materials, cancer drug delivery methods, earthquakes, and environmental issues such as overfishing, pollution, and invasive species. Faculty mentored research encourages students to develop critical and analytical thinking in the classroom, the research lab, and the field setting. Graduates are prepared to fill critical roles in industry and they also form a substantial pipeline of K-12 science and math teachers for California.

The College ranks among the top master's-granting universities in the nation for producing graduates who go on to earn doctoral degrees in science and math research fields. The faculty, staff, and administrators of the College are proud of their graduates and wish them success and satisfaction in their careers.
HONORS AND AWARDS - continued...

GRADUATING PHI BETA KAPPA NOMINEES FROM MEMBERS IN CLASS 2018-2019
Xiwen (Eri) Xu, Biological Sciences
Claudia Camacho Garcia, Mathematics and Statistics

PHI BETA KAPPA NOMINEES FROM MEMBERS IN CLASS 2019-2020
Jesús Flores, Biological Sciences
Alondra Fernández, Environmental Science & Policy
Valeria Sanchez Sanchez, Mathematics and Statistics

DEPARTMENTAL HONORS

BIOLOGICAL SCIENCES
Anna Van-Anh Nguyen, B.S. Biology - Molecular Cell Biology and Physiology
Vi Ngoc Quynh Phan, B.S. Microbiology
Kevin Khoa Trinh, B.S. Biology
Grace Maeko Yomogida, B.S. Biology - Molecular Cell Biology and Physiology
Matan Grunfeld, B.S. Biology - Molecular Cell Biology and Physiology
Shahe Rafi Tchillingirian, B.S. Biology
Christine Angelica Uy, B.S. Biology - Organismal Biology
Tina Yuting Wang, B.S. Biology
Longthy Thanh Nguyen, B.S. Biology - Molecular Cell Biology and Physiology
Hannah Caroline Rattu Mandias, B.S. Biology
Amanda C. Haas, M.S. Biology
Nicholas James DaSilva, M.S. Biology
Angele De Silva, M.S. Microbiology
Alisha Nicole Monsibais, M.S. Microbiology
Mikayla Anne Van Bel, M.S. Microbiology

CHEMISTRY AND BIOCHEMISTRY
Jude Bassam Khatib, B.S. Biochemistry
Darian Jordan Gamble, B.S. Biochemistry
William Henry Wellman, B.S. Chemistry
Jonathan Godinez, M.S. Biochemistry
Kristi Mari Ishihara, M.S. Chemistry
Bingli Wang, M.S. Chemistry

MATHEMATICS AND STATISTICS
Nathaniel Joseph Morrison, B.S. Mathematics - Applied Mathematics; Physics
Nicholas Roy, B.S. Mathematics - Applied Mathematics
Valeria Sanchez Sanchez, B.S. Mathematics - Mathematics Education
Kirsten Miller, M.S. Mathematics - Applied Statistics
Bao Vu, M.S. Mathematics - Applied Statistics
Selina Alyse Chaves, M.S. Mathematics - Mathematics Education for Secondary Teachers
Ricky Lee, M.S. Mathematics

PHYSICS AND ASTRONOMY
Edward James Garcia, B.S. Physics
Mary Marouf Usufzy, B.S. Physics
Roshell Lamug, B.S. Physics
Megan Louise Barry, M.S. Physics
Nicholas Alexander Werner, M.S. Physics

SCIENCE EDUCATION
Christine Maree Karlberg, M.S. Science Education - Elementary and Middle School Science Education

OUTSTANDING DEPARTMENT BACCALAUREATE GRADUATES

RICHARD D. GREEN DEAN’S AWARD

BIOLOGICAL SCIENCES
Natalie Winans, B.S. Microbiology

CHEMISTRY AND BIOCHEMISTRY
Stephanie Leal, B.S. Biochemistry

MATHEMATICS AND STATISTICS
Jennifer Gensler, B.S. Mathematics

PHYSICS AND ASTRONOMY
Nathaniel Joseph Morrison, B.S. Physics; Mathematics - Applied Mathematics

OUTSTANDING STUDENT TEACHER IN SCIENCE

RICHARD D. GREEN DEAN’S AWARD

Holly Carpenter, Single Subject Credential - Biology
B.A. Environmental Science & Policy, California State University, Long Beach
College of Natural Sciences & Mathematics
Candidates for the Master's Degree

▲ BIOLOGICAL SCIENCES

Master of Science - Biology

Nicholas James DaSilva
Thesis: Impact of Submerged Aquatic Vegetation (Zostera marina and Ruppia maritima) on Habitat Parameters and Macroinvertebrate Community Composition within an Urbanized Coastal Lagoon
Advisor: Christine Whitcraft

Aimee Dawn Ellison
Thesis: Determining the Relationship of Protein Metabolism and Phenotypic Plasticity in Larvae of the Sand Dollar, Dendraster excentricus
Advisor: Douglas Pace

Amanda C. Haas
Thesis: Effects of ocean acidification on predator-prey dynamics in the rocky intertidal zone
Advisor: Bengt Allen

Rebecca Joan Hernandez
Advisor: Jesse Dillon

Omar Kennan Kabbani
Thesis: Investigating the Regulatory Mechanisms of the WRKY75 Transcription Factor during Age-Associated Leaf Senescence in Arabidopsis thaliana
Advisor: Judy Brusslan

Jaclyn Allyse Mann
Meta-Analysis of the Change in Species Interactions With Increasing Environmental Stress in Marine Ecosystems
Advisor: Bengt Allen

Diana Lorena Silva Garay
Thesis: Effects of Temperature and Body-Mass on the Standard Metabolic Rates of the Round Stingray, Urobatis halleri (Cooper, 1863)
Advisor: Chris Lowe

Kevin Glenn Travis
Thesis: Comparative biomechanics of emerged and submerged walking in the epaulette shark (Hemiscyllium ocellatum)
Advisor: Chris Lowe

Chloe Anna Van Grootheest
Thesis: Habitat use and connectivity of a native and nonnative goby within a fragmented wetland habitat in southern California
Advisor: Christine Whitcraft

Kathy Uyen Vo
Thesis: Effects of mammalian aposematic pattern and color contrast variation on predator avoidance behavior
Advisor: Theodore Stankowich

Alison Kimberly Yee
Thesis: The Distribution of the Non-Indigenous Marine Annelid Ficopomatus enigmaticus in California, and the Role of Larval Dispersal and Settlement in its Spread
Advisor: Bruno Pernet

Maria Rivera
Thesis: Regulated Inositol Synthesis Affects Obesity and Development in Drosophila melanogaster
Advisor: Lisa Klig

Master of Science - Microbiology

Angele Minoli De Silva
Thesis: Macrophage production and activity of innate immune proteins C1q, C1r, and C1s are modulated in response to molecular patterns
Advisor: Deborah Fraser

Alisha Nicole Monsibais
Thesis: Complement Protein C1q Modulation of Human Aortic Endothelial Cell Functions in Atherosclerosis
Advisor: Deborah Fraser

Katherine Ashley Yarbrough
Thesis: Diversity and Distribution of Sulfur Metabolism Across Prokaryotes
Co-Advisors: Renaud Berlemont and Jesse Dillon
CHEMISTRY & BIOCHEMISTRY
Master of Science - Biochemistry

Kelly Naomi Arajo Urey
Thesis: Effect of PI3K-Akt inhibition on the unfolded protein response
Advisor: Deepali Bhandari

Phelicita Nicale Bell
Thesis: Targeting GPR71 cell surface receptor with hybrid peptides as drug carriers
Advisor: Kasha Slowinska

John Porter Burdick
Thesis: The Role of C-terminal Iionic Residues in the Self-Association of Apolipoprotein A-1
Advisor: Paul Weers

Rosanna Calderon Garcia
Thesis: Investigating Role of the PI3K-Akt Pathway in Adaptation to Endoplasmic Reticulum Stress in MDA-MB231 cells
Advisor: Deepali Bhandari

Jonathan Godinez
Thesis: Incorporating Substrate Features in Frmco-Amino Acid Based Compounds to Generate Butyrylcholinesterase Inhibitors for the Potential Treatment of Alzheimer’s Disease
Advisor: Jason Schwans

George P. Lara
Thesis: Cellular Localization of Butyrylcholinesterase in Stem Cell Differentiation
Co-Advisors: Jason Schwans, Vasanthy Narayanaswami, and Paul Weers

Master of Science - Chemistry

Phillippe K. Ly
Co-Advisors: Ken Nakayama and Jason Schwans

Lee Jared Macklin
Thesis: Synthesis of 7-Alkyl-3-Benzylcoumarins and Organophosphate-Coumarin Hybrids: Potential Implications in Cancer and Alzheimer’s Disease
Advisor: Jason Schwans

Cristobal Morfin
Thesis: Peptide-supported Transformations in Aqueous Media
Advisor: Kasha Slowinska

Julie Heejin Park
Thesis: Evaluating the Catalytic Role of a Conserved Non-Active Site Residue in Triosephosphate Isomerase from Saccharomyces Cerevisiae
Advisor: Jason Schwans

Nairuti S. Patel
Advisor: Paul Weers

Christos Nixaridis
Thesis: Palladium Nanoparticles and Titanium Oxide-Supported Palladium Nanoparticles for Catalytic Alkenes Transformations in Water
Advisor: Young-Seok Shon

William Ryan Prescott Sueme
Thesis: Influence of Semiconducting Nanodiscs on Colloidal Catalysis of Palladium Nanoparticles in Water
Advisor: Young-Seok Shon

Vural Burc Cakir
Thesis: Identification of Crustal Fluid Sources by Integrated B, O, and H Isotope Studies of Tourmaline – A Test Study from the Sierra Nevada, California
Advisor: Gregory Hokl

Kelsey E. Dioron
Thesis: Paleoclimatic and Paleoenvironmental Changes Since the Last Glacial Maximum Recorded in Maar Lake Sediments from the Central Highlands of Vietnam
Advisor: Lora Stevens

John C. Farrell
Advisor: Richard Behl

Leo G. Giannetta
Thesis: Chemoselective and Lethal-Stratigraphic Framework of the Eocene Kreyenhagen Formation: Kettleman Area, Northern San Joaquin Basin, CA
Advisor: Richard Behl

Matthew James Graves
Thesis: Repetitive Microgravity Survey of Long Valley Caldera, Mammoth Lakes, California
Advisor: Roswitha B. Grannell

Michael R. Hodges
Thesis: Simulation of Percolation Beneath Mini-Anahiem Recharge Basin, Orange County, CA
Advisor: Matthew Becker

Thomas Clay Kelty
Thesis: Onset and Cessation of Deformation along a Blind Thrust in the Past 100 ka: the Santa Ynez River Fault in the Western Transverse Ranges of California
Advisor: Nate Onderdonk

Drake Dennis Kerr
Thesis: Geomorphic evidence for Late Quaternary slip on the northernmost San Jacinto fault zone and implications for slip transfer to the San Andreas fault
Advisor: Nate Onderdonk

Cesar R. Mejia
Megan Ruth Mortimer-Lamb
Thesis: Quantification of the Biogenic Silica in the Oligo-Miocene Lark Formation, Danish North Sea and Norwegian Margin
Advisor: Richard Behl

Ashley Anita Newman
Patrick James O’Connell
Thesis: Differentiating Clogging and Mounding with Distributed Temperature Sensing

Ani M. Pylewlski
Thesis: Geomorphic evidence for Late Quaternary slip on the northernmost San Jacinto fault zone and implications for slip transfer to the San Andreas fault
Advisor: Nate Onderdonk

Jeremiah Thomas Rose
Alexander Paul Woodward Sedlak
Thesis: Geochemistry of the Monterey Formation in the San Joaquin Basin, California
Advisor: Richard Behl

Mitsuyo Tsuda
Amber Jewel Tucker
James Shayle Uroff
Thesis: The Fluid Evolution of the Pelona Schist, as Evidenced by Stable Isotopes
Advisor: Gregory Hokl

GEODETICAL SCIENCES
Master of Science - Geology

Ayodeji Israel Aina
Thesis: Chemoselective Characterization of the Lower to Middle Miocene Monterey Formation-Equivalent Strata of Long Beach Oil Field: Los Angeles Basin, California
Advisor: Richard Behl

Daniel M. Boyd
Thesis: Characterizing the Geometry, Kinematics and Potential Connectivity at the Site: Terr-Formation of the Palos Verdes Fault
Advisor: Jayne Bormann

Drake Dennis Kerr
Thesis: Geomorphic evidence for Late Quaternary slip on the northernmost San Jacinto fault zone and implications for slip transfer to the San Andreas fault
Advisor: Nate Onderdonk

Mathematics & Statistics
Master of Science - Applied Statistics

Alvin Minh La
Vi The Ly
Kirsten Louise Miller
Thesis: Analysis of General Education Mathematics and Quantitative Reasoning Courses at California State University, Long Beach
Advisor: Kasha Slowinska

Luis Antonio Cervantes
Thesis: Exploring Premium Policy Behaviors
Advisor: Sung Kim

Justin Chu
Frances Jeanne Gingco Chua
Monica Awny Ghaly
SzuHan Jen
Harpreet Kaur
Sean Krikln
Thesis: Contegration Analysis of Pollutants on Respiratory Disease Presence in Southern California
Advisor: Sung Kim

Tyler Eiichi Serrano Nakamura
Alex Tung Nguyen
Thesis: Prediction of the Likelihood of Benefit from Adjutant Chemotherapy for Early Stage Lung Cancer Patients Utilizing Predictive Gene Signatures
Advisor: Hojin Moon

Jairo Xavier Nunez
Nicholas Susan Osife
Abigail Park

 Courses at California State University, Long Beach
Mathematics and Quantitative Reasoning
Advisor: Kasha Slowinska

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### Master of Science - Applied Statistics, continued...

- Yale Benjamin Quan  
  Thesis: An Analysis of Major Change Patterns and their Effect on Graduation Rates  
  Advisor: Sung Kim
- Ryan Michael Raasch  
  Thesis: Christian Santizo  
  Faezehsadat Seyedmofidi
- Hanbyeol Song  
  Andres Y. Sotelo  
  Bradley J. Thakham  
  Valeria Torres  
  Angel Mayra Villa  
  Bao G. Vu  
  Sikai Wang

### Master of Science - Mathematics

- Trizzie Dang Huynh  
  Ricky Lee  
  Holly Victoria Lewis  
  Alexander Louis Japsay Sabater  
  Neera Saxena  
  Hammad Ahmed Sheikh  
  Kevin Tyler Smith  
  Hyunji Yang

### Master of Science - Applied Mathematics

- Farnoosh Bahrami  
  Arthur Israilovich Baronov  
  Pablo Gomez  
  Melissa Marie Hernandez  
  Alejandra Lopez Calderon  
  Alexa Grace McQuiston  
  Anh My Nguyen  
  Tien M. Nguyen  
  Rebecca Ann Rathfelder  
  Michael William Roberts

### Master of Science - Mathematics - Mathematics Education for Secondary Teachers

- Anakaren Castillo  
  Selina Alyse Chavez  
  Michael Dees  
  Jessica Jiyoung Kim  
  George Edward Knight  
  Jennifer M. Shinn  
  Viet Q. To  
  Richard Thomas Weber  
  Kiera L. Willis

### PHYSICS & ASTRONOMY

#### Master of Science - Physics

- Michael Anguiano  
  Thesis: Approximate Phase Diagram for an Extended Shafirty-Sutherland Antiferromagnet  
  Advisor: Michael Peterson
- Megan Louise Barry  
  Thesis: g-mode Oscillations in Neutron Stars  
  Advisor: Prashanth Jaikumar
- Christopher Burgess  
  Thesis: The Coulomb interaction in graphene multilayers  
  Advisor: Andreas Bill
- Chase Canas  
  Thesis: Exoplanet Transmission Spectral Coverage and Retrieval of Atmospheric Molecular Abundances  
  Advisor: Prashanth Jaikumar
- Benjamin Perea Deutsch  
  Thesis: Solution of the Relativistic Feshbach-Villars Equation for Spin-1/2 Particles  
  Advisor: Zoltan Papp  
  Oscar Nicolas Osorio  
  Thesis: Monte Carlo studies of magnetic systems  
  Advisor: Michael Peterson
- Eduardo Palacios  
  Thesis: Particle-hole Symmetry of Fractional Quantum Hall States in the Lowest Landau Level  
  Advisor: Michael Peterson
- Shaina Rajendra Rawal  
  Thesis: Klein Paradox in Feshbach-Villars Formalism  
  Advisor: Zoltan Papp
- Marc Allen Salinas  
  Thesis: Neutron Stars and the Quark Matter Equation of State  
  Advisor: Thomas Klaehn
- Dylan Theo Nicholas  
  Thesis: The Electroproduction of the Cascade Hyperon on the Proton  
  Advisor: Zoltan Papp
- Oscar Nicolas Osorio  
  Thesis: Monte Carlo studies of magnetic systems  
  Advisor: Michael Peterson
- Eduardo Palacios  
  Thesis: Particle-hole Symmetry of Fractional Quantum Hall States in the Lowest Landau Level  
  Advisor: Michael Peterson
- Shaina Rajendra Rawal  
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  Advisor: Zoltan Papp
- Marc Allen Salinas  
  Thesis: Neutron Stars and the Quark Matter Equation of State  
  Advisor: Thomas Klaehn
- Dylan Theo Nicholas  
  Thesis: The Electroproduction of the Cascade Hyperon on the Proton  
  Advisor: Zoltan Papp
- Oscar Nicolas Osorio  
  Thesis: Monte Carlo studies of magnetic systems  
  Advisor: Michael Peterson
- Eduardo Palacios  
  Thesis: Particle-hole Symmetry of Fractional Quantum Hall States in the Lowest Landau Level  
  Advisor: Michael Peterson
- Shaina Rajendra Rawal  
  Thesis: Klein Paradox in Feshbach-Villars Formalism  
  Advisor: Zoltan Papp
- Marc Allen Salinas  
  Thesis: Neutron Stars and the Quark Matter Equation of State  
  Advisor: Thomas Klaehn
- Aaron Schwartz  
  Thesis: A Mixed Methods Approach to Understand Student Viewpoints Regarding Introductory Calculus-Based Physics Experiments When Conducting Traditional and Inquiry-Based Laboratories  
  Advisor: Laura Henriques
- Ryan James Taylor Vara  
  Thesis: Corrections to the thermopower as a non-abelian quasiparticle detector in the fractional quantum Hall effect  
  Advisor: Michael Peterson
- Nicholas Alexander Werner  
  Thesis: The plasmon spectrum of twisted bilayer graphene  
  Advisor: Andreas Bill

#### Master of Science - Physics – Applied

- Victor DeLa Cruz  
  Thesis: Fabrication of close-packed nanospheres and microspheres by multi-step spin-coating to investigate the magnetic switching behavior of Py and SmCo nanostructures  
  Advisor: Jyeong Gu
- Sara Elizabeth Limon  
  Thesis: Surface oxidation effect on magnetic stability in iron phthalocyanine thin films  
  Advisor: Chuhee Kwon
- Sara Qubbaj  
  Thesis: Graphene as a tool to investigate topological defects and strongly correlated materials  
  Advisor: Claudia Ojeda Aristizabal
- Adriana Rincon  
  Thesis: Magnetic Domain Analysis from Magnetic Force Microscope Images  
  Advisor: Michael Peterson

#### Master of Science - Physics – Professional Physics

- Elliot Brandon Stiglic  
  Thesis: An Overview of Space-Based Remote-Sensing Passive Microwave Radiometers with an emphasis on the Advanced Technology Microwave Sounder (ATMS) Instrument  
  Advisor: Prashanth Jaikumar

- Bita Mehr Motamedi  
  Thesis: Relativistic has spin-0 feshbach villars equation for polynomial potential  
  Advisor: Zoltan Papp
Kathryn Marie Evans  
Thesis: Student Questioning: An Exploration of Student Questioning in Diverse Learning Situations  
Advisor: Alan Colburn

Michael Ho  
Thesis: Student-Centered and Small-Group Discussion Approach to Supporting Claims, Evidence and Reasoning (CER) Explanations  
Advisor: Susan Gomez Zwiep

Christine Maree Karlberg  
Thesis: Investigating the Implications of Using Drawing to Learn Strategies in a High School Anatomy Class  
Co-Advisors: Alan Colburn and Laura Henriques

Carina Perez  
Thesis: The Effect of Collaborative Writing of Scientific Arguments on Content Learning and Student Attitudes in Science  
Advisor: Alan Colburn

Chelsea Amber Poma  
Thesis: Creating a Toolkit for the Teaching of Analog and Digital Signals in Middle School  
Advisor: Laura Henriques

Emily Tiare-Mahia Sanders  
Thesis: Development of an Integrated 7th Grade NGSS Based Unit on Plastics in our Ocean  
Advisor: Lisa Martin

Kristine Marie Turner  
Advisor: Susan Gomez Zwiep

Joanne Jungeun Park  
Thesis: Motivations for Working at an Informal Learning Institution  
Advisor: James Kisiel

Amelia Anne Strickland  
Thesis: Increasing the Effectiveness of Environmental Field Trips: A Two Trip Project  
Advisor: Susan Gomez Zwiep
College of Natural Sciences & Mathematics
Candidates for the Bachelor’s Degree

**BIOLOGICAL SCIENCES**

*Bachelor of Science - Biology*

Aliyyat O A Afolabi
Kaylee Alisha Aguayo
Joshua Allen Gorospe Angeles
Genesis Suzette Atay
Mitzi Samanta Barroso
Lizeth Blancas
Ruby Ray Blaser
Phyllicia L.R. Borden
Melissa Marie Breau
Samantha Briones
Jessica Erin Brooms
Lindsay Huynh Brown
Stephanie Campos
Daniel Cazares del Castillo
Brisa Cepeda
Alexander Christian Chavez
Gabriel Fernando Chavez
Nydia Chavez-Flores
Charie Jae Cho
Creston Kelly Cole
Cameron Marie Conzelman
Vanessa Corona
Cooper Henry Pike Collins
Emily Valero Curtis
Tam Vu Minh Dao
Shilpa Datta
Sebastian Andrew Davis
Karla De Haro
Estefany De La Cruz
Anh Vu Trung Do
Cindy Vi Quynh Do
Andrew Fouad Eidek
Daniel Estrada
Merna M. Fakhory
Jia Chen Fan
Mariangel Melissa Fernandez Silva
Jhanzel Rei Talana Fernando
Deborah Lucille Flores
Esmeralda Guadalupe Flores
Ingrid Karen Gago Baras
Karina Gisselle Gallegos
Jennifer Garcia
Hannah Sydney Gasparac
Pawel Arkadiusz Gertych
Karie Beatriz Gomez
John Robert Guerrero
Anuradha Gupta
Museok Han
Samara Harrington
Miguel Oswaldo Hinojosa
Michelle Ho
Tan Thinh Ho
John Hoang
Joseph Q. Huynh
Jose Giovanni Ibarra
Miguel Jimenez
Leslie Kang
Sandeep Kaur
Marina Ayad Khilla
Chris T. Kim
Daniel Won Jun Ko
Sarah Jean Koenig
Alexander Lam
Lily Chen Lau
Cypress Renee Ledesma
Christine Yue-Wah Leung
Megan Dubouzet Lim
Olivia Thida Lim
Anna Quinn Mai
Reuben Paul Matias Mandapat
Carlos Antonio Martinez
Stephany Martinez
Beatriz Medina
Rimsha Memon
Kegann Kaiowa Isao Metrovich-Gibo
Carol Moghnieh
Carlos Molina
Frida Jatziry Monterola
Victoria Alise Mueller
Gregory Martin Murrieta, Jr.
Peter Keon Namgoong
Ivy Georgia Neff
Taylor Debra Nelson
Anh Thu Hoang Nguyen
Crystal H. Nguyen
Diana Cao Nguyen
Bachelor of Science - Biology, continued...

Donald Nhut-Tan Nguyen
Helen Nguyen
Jennifer Tram Nguyen
Kha Alex Nguyen
Lynn Nguyen
Matthew Hoai-Nam Nguyen
Micayla Nha An Nguyen
Sierra Caitlin Noguera
Julia Ohara
Diana Ouk
Jane Rose Owens
Andres Nathaniel Padilla
Brian Chai Pak
Sarah J. Park
Shreya Sanjaykumar Patel
Vinita Patel
Daxton Thomas Penn
Michael Anthony Percaccio
Jocelyn Kaye Perry
Brittany Jean Pettey
Daniel Quang-Vinh Pham
Thinh Pham
Thu Quynh Anh Pham
Kristen Nicole Phillips
Steven Paul Plummer
Vivian Quach
Natalia Isabel Quinones
Ana Margarita Ramirez
Erik J. Ramirez
Max Ryan Rassavong
Hannah Caroline Rattu Mandias
Sufiyan Saleem Rauf
Francisco Renteria
Edwyn Rafael Reyes Benitez
Marina Nikki-Ly Rice
Nina Marie Rivas
Krystle Leilani Ronquillo

Bachelor of Science - Biology - Biology Education

Hannah Alice Mae Adams
Robert Emile Andrews
Je Wax Chada
Rogelio Chavez-Lara, Jr.

Bachelor of Science - Biology - Molecular Cell Biology and Physiology

Lyle Patrick Adonis
Alysson Janelle Alfaro
Ana Mae Ursolino Apego
Mae Ann Ursolino Apego

Edgar Curiel I
Stephanie Noelle Lent
Christopher Scott Maldonado
Dianne Simental

Farah Emilia Azmi
Sammy Barajas
Rafik Kheir Barsoum
Charankanwaljit Singh Bath

Evelyn A. Rosales
Jesu Ivan Rottier
Nikita Sama
Sebastian Santiago, Jr.
Steven Daniel Sloane
Jenny Jiseoun Song
Monica Renee Stevens
Diane Sun
Matthew Tabuena de Leon
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