

University of Houston Fall 2022 Commencement

College of Natural Sciences and Mathematics

Saturday, December 17, 2022 • Fertitta Center





College of Natural Sciences and Mathematics

Commencement Ceremony

Saturday, December 17, 2022, 9 a.m. Fertitta Center

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Message from the President

December 16, 2022

Dear University of Houston Graduates,

Congratulations! Today you've reached a tremendous milestone that sets the stage for a bright, new beginning. Today, you become a college graduate.

This accomplishment represents your years of hard work and sacrifice and a steadfast commitment to achieve. I know that same drive and endurance will serve you well as you make your mark on the world. Moreover, I know your education will make a positive impact on our society as you contribute the knowledge and skills you gained here.

You've received a first-class education at the University of Houston, and I know you will reach your full potential. The support of your family and friends, and encouragement of your UH faculty, advisers and staff have also played a significant part in your success. Thank them for their contribution, as we thank you for choosing our university.

UH is the home of award-winning sports, nationally top-ranked academic programs, world-renowned faculty, ground-breaking research and so much more. It has transformed you into the best prepared, educated and equipped individuals of your generation because you were committed to doing the work. Now, go forward as proud graduates and take the world by storm.

With my best wishes for a bright and rewarding future, Go Coogs!

Warmest regards,

Renu khator

Renu Khator President, University of Houston







Message from the Provost

Dear Graduates,

Mission accomplished! You are graduating from the University of Houston and ready to apply the knowledge gained at our institution to bold new endeavors.

As someone who has spent a few decades in academia, I know it wasn't easy. Balancing classes, work and personal obligations tested you at times. Still, you persevered to reach this moment.

You didn't do it alone, however. Take a moment to acknowledge those who supported you on the road to today's commencement.

Also, stay in touch with your alma mater. Today's ceremonies should not serve as a "farewell" to the University. Instead, look upon these commencement exercises as an informal invitation to someday return to UH and share your stories with future generations of graduates.

After all, you are forever a member of the Cougar family! Following today's ceremonies, you will be official members of our growing alumni base. No matter where your journeys lead, you will remain an integral part of our University.

As you prepare to cross the stage today, please know that all of us are proud of you. Your very presence at today's ceremonies is an indication of the tenacity and talent that helped earn your degrees and will take you far in your respective careers.

On behalf of the faculty, college deans and the many staff members committed to your success, congratulations! We are honored that you selected the University of Houston for your academic pursuits and proud that you are representing our institution as graduates!

Onward,

Robert H. McPharson

Robert H. McPherson Interim Senior Vice President for Academic Affairs and Provost

Commencement Ceremony

University of Houston System

BOARD OF REGENTS

Tilman J. Fertitta, *Chairman* Jack B. Moore, *Vice Chairman* Durga D. Agrawal, *Secretary* Doug H. Brooks Alonzo Cantu Edward Carrizales John A. McCall, Jr. Beth Madison Ricky Raven

University of Houston

PRESIDENT

Renu Khator

PRESIDENT'S CABINET

Robert McPherson Interim Senior Vice President for Academic Affairs and Provost

Raymond S. Bartlett Senior Vice President for Administration and Finance

> Bettina Beech Chief Population Health Officer

Eloise Brice Vice President for University Advancement

Dona Hamilton Cornell Vice President for Legal Affairs and General Counsel

> Lisa Holdeman Vice President for Marketing and Communications

> > Michael Johnson Chief of Staff

Ramanan Krishnamoorti Vice President for Energy and Innovation Elwyn C. Lee Vice President for Neighborhood and Strategic Initiatives

> Daniel M. Maxwell Interim Vice President for Student Affairs

Claudia Neuhauser Interim Vice President for Research

Michael Pedé Associate Vice President for Alumni Relations

Chris Pezman Vice President for Intercollegiate Athletics and Athletics Director

> David Shattuck President, UH Faculty Senate

Jason Smith Vice President for Governmental Relations

Stephen J. Spann Vice President for Medical Affairs and Founding Dean, Tilman J. Fertitta Family College of Medicine

UNIVERSITY of HOUSTON

Commencement Ceremony

University of Houston Deans

Leonard M. Baynes UH LAW CENTER

Andrew Davis Founding Dean Cullen Foundation Endowed Dean's Chair KATHRINE G. McGOVERN COLLEGE OF THE ARTS

Alan J. Dettlaff Maconda Brown O'Connor Endowed Dean's Chair GRADUATE COLLEGE OF SOCIAL WORK

> Jim Granato Hobby School of Public Affairs

Catherine Horn Interim Dean and Moores Professor College of Education

Athena N. Jackson Elizabeth D. Rockwell Endowed Dean's Chair UNIVERSITY OF HOUSTON LIBRARIES

> Stuart Long Interim Dean The Honors College

Heidar Malki Interim Dean College of Technology

Daniel P. O'Connor College of Liberal Arts and Social Sciences

Patricia Belton Oliver ACSA Distinguished Professor Gerald D. Hines College of Architecture and Design Paul A. Pavlou Cullen Distinguished Chair C. T. BAUER COLLEGE OF BUSINESS

F. Lamar Pritchard Humana Endowed Dean's Chair in Pharmacy College of Pharmacy

> Dennis Reynolds Barron Hilton Distinguished Chair Conrad N. Hilton College of Global Hospitality Leadership

Stephen J. Spann Founding Dean TILMAN J. FERTITTA FAMILY COLLEGE OF MEDICINE

Kathryn M. Tart Founding Dean Humana Endowed Dean's Chair in Nursing College of Nursing

Joseph W. Tedesco Elizabeth D. Rockwell Endowed Dean's Chair Cullen College of Engineering

Michael Twa Humana Endowed Dean's Chair in Optometry College of Optometry

Dan E. Wells Distinguished Professor of Science College of Natural Sciences and Mathematics

Commencement Ceremony

University of Houston History



The University of Houston was established as the Houston Junior College in 1927. As the college grew, it prospered and officially became the four-year University of Houston in 1934. Two years later, the college attained land for a permanent campus, and in 1939 it constructed its first building, the Roy G. Cullen Building. The University became a state institution in 1963.

The University includes 15 academic colleges, one school and the multidisciplinary Honors College that teach a wide array of subjects – from math, arts and engineering to law, pharmacy and business. What started as a campus with a single building has grown into a world-class university, offering more than 270 undergraduate and graduate programs to more than 46,000 students annually. UH is a Carnegie-designated Tier One public research university, and its public service and community activities, such as cultural offerings, clinical services, policy studies and small business initiatives, serve a diverse metropolitan population. Likewise, the resources of the Gulf Coast Region complement and enrich the University's academic programs, providing students with professional expertise, practical experience and career opportunities.

In keeping with the University's commitment to excellence, UH raised the benchmark of academic achievement when Phi Beta Kappa, the nation's oldest and most prestigious academic honor society, awarded UH the approval to start a chapter in 2015. This designation welcomed UH to an elite group of the nation's most esteemed colleges and universities.

Commencement Traditions

Academic costumes of today have a history of nearly eight centuries. In medieval Europe, all townspeople wore long flowing robes and gowns. The materials and colors were governed by royal decree. Gradually, distinctive gowns were developed for the various professions, trades and guilds. Scholars wore robes and hoods to protect their shaved heads. Later, skullcaps were worn on the head, and the hoods became a cape that could be pulled over the head during unpleasant weather.

As additional universities were founded, distinctive forms of the gown and hood were adapted by their faculties for bachelor's (apprentices of the arts), master's (teachers) and doctoral (teachers who had completed postgraduate studies). When caps and hats came into fashion in the 15th century, the hoods became ornamental, draped over the shoulders and down the back.

The academic hat was first worn as a symbol of the master's degree and existed in various forms. The mortarboard style comes to us from Oxford University. When academic costumes came to America in 1754, styles were quite varied. In Europe, they still are; however, in our country, usage has been standardized by the Intercollegiate Code of Academic Costume.

GERALD D. HINES COLLEGE OF ARCHITECTURE AND DESIGN

Bachelor's Degree Master's Degree

Tassel: Violet Hood: Violet Tassel: Black

KATHRINE G. MCGOVERN COLLEGE OF THE ARTS

Bachelor's Degree Tassel: Brown Master's Degree Hood: Brown Hood (Music): Pink Tassel: Black **Doctoral Degree** Hood: Pink Tassel: Red

C. T. BAUER COLLEGE OF BUSINESS

Bachelor's Degree	Tassel: Dark Blue
Master's Degree	Hood: Drab
	Tassel: Black
Doctoral Degree	Hood: Dark Blue
	Tassel: Red

COLLEGE OF EDUCATION

Bachelor's Degree	Tassel: Light Blue
Master's Degree	<i>Hood:</i> Light Blue <i>Tassel:</i> Black
Doctoral Degree	Hood (Ed.D.): Ligh Hood (Ph.D.): Dark

d: Light Blue sel: Black od (Ed.D.): Light Blue od (Ph.D.): Dark Blue Tassel: Red

CULLEN COLLEGE OF ENGINEERING

Bachelor's Degree	Tassel: Orange
Master's Degree	Hood: Orange
	Tassel: Black
Doctoral Degree	Hood: Dark Blue
	Tassel: Red

CONRAD N. HILTON COLLEGE OF GLOBAL HOSPITALITY LEADERSHIP

Bachelor's Degree	Tassel: Navy
Master's Degree	<i>Hood:</i> Navy, Red and White <i>Tassel:</i> Black
Doctoral Degree	Hood: Dark Blue Tassel: Red

Commencement Ceremony

UH LAW CENTER

Master's Degree **Doctoral Degree** Hood: Purple Tassel: Black Hood: Purple Tassel: Red

COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES

Bachelor's Degree	Tassel: Citron
Master's Degree	Hood: Citron
	Tassel: Black
Doctoral Degree	Hood: Dark Blue
	Tassel: Red

TILMAN J. FERTITTA FAMILY COLLEGE OF MEDICINE

Doctor of Medicine Degree

Hood: Kelly Green Tassel: Red

COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

Bachelor's Degree
Master's Degree

Doctoral Degree

Tassel: Golden Yellow Hood: Golden Yellow Tassel: Black Hood: Dark Blue

Tassel: Red

Tassel: Apricot

COLLEGE OF NURSING

Bachelor's Degree	Tassel: Apricot
Master's Degree	Hood: Apricot
	Tassel: Black

COLLEGE OF OPTOMETRY

Master's Degree

Hood: Gold Tassel: Black

Doctor of Philosophy Degree Hood: Royal Blue Tassel: Red

Doctor of Optometry Degree Hood: Seafoam Green Tassel: Red

COLLEGE OF PHARMACY

Bachelor's Degree Tassel: Olive Hood: Olive Master's Degree Tassel: Black

Doctor of Philosophy Degree

Hood: Royal Blue Tassel: Red

Doctor of Pharmacy Degree Hood: Olive

Tassel: Red

GRADUATE COLLEGE OF SOCIAL WORK

Master's Degree Hood: Citron Tassel: Black Doctoral Degree Hood: Citron Tassel: Red

COLLEGE OF TECHNOLOGY

Bachelor's Degree Master's Degree

Tassel: Maroon Hood: Maroon Tassel: Black

HOBBY SCHOOL OF PUBLIC AFFAIRS

Master's Degree:

Hood: Peacock Blue Tassel: Peacock Blue

Ceremonial Symbols



THE SEAL

Throughout history, seals have been used to authenticate official documents. The University of Houston and UH System seals both bear the Official Seal of Arms of General Sam Houston, as handed down to him from his noble ancestors. It includes the escutcheon in the center of the seal — consisting of checkered chevrons denoting nobility — and three martlets, gentle lowland birds that symbolize peace and deliverance. A winged hourglass is placed above the shield. Surmounting this is the motto "In Tempore," meaning "In Time." The greyhounds indicate speed of giving aid. The UH seal was first adopted in 1938 as the present campus was established. Although the look of the seal has evolved over the years, the first version was etched into the floor of the Roy G. Cullen Building.



UNIVERSITY MACE

The University Mace, which is carried in academic processions, is a staff symbolizing the University's authority and unity. The tradition of the academic mace began in the late 14th century when two ancient instruments, the royal scepter and the battle mace, were combined to form a university president's symbol of authority.

THE ALMA MATER

All hail to thee, Our Houston University. Our hearts fill with gladness When we think of thee. We'll always adore thee Dear old varsity. And to thy memory cherished, True we'll ever be.

Words and music by Harmony Class of 1942

Commencement Ceremony

Academic Honors

Academic honors are based on the requirements of the catalog year students entered the University. The final designation for honors is determined by the Provost's Office upon final completion of all degree requirements.

Undergraduates who have graduated with the stated academic honors have achieved the following grade point averages earned in the last 54 hours completed at the University of Houston.

3.90 TO 4.0 Summa Cum Laude (with Highest Honors)3.70 TO 3.89 Magna Cum Laude (with High Honors)3.50 TO 3.69 Cum Laude (with Honors)

This roster does not include the names of degree holders who chose to withhold information under the Federal Education Rights and Privacy Act.

Summa Cum Laude – 4.0 GPA Graduates

The following graduates are recognized for achieving Summa Cum Laude with a 4.0 cumulative grade point average while also completing their degree within four years of starting their first semester in college at the University of Houston.

FALL 2022

Diana Allemakovna Bucumi Bachelor of Business Administration in Finance C. T. BAUER COLLEGE OF BUSINESS

Sarah Bunjaku Bachelor of Business Administration in Finance C. T. BAUER COLLEGE OF BUSINESS

Midhat Zehra Jafry Bachelor of Science in Biology College of Natural Sciences and Mathematics Bachelor of Science in Liberal Studies College of Liberal Arts and Social Sciences

> Charles M. Loh Bachelor of Business Administration in Management Information Systems C. T. BAUER COLLEGE OF BUSINESS

Elizabeth A. Lopez-Aguilar Bachelor of Arts in Strategic Communication College of Liberal Arts and Social Sciences

Reagan L. Mccawley Bachelor of Science in Psychology College of Liberal Arts and Social Sciences Natalia X. Perez Navarro Bachelor of Arts in History College of Liberal Arts and Social Sciences

Nhi K. Nguyen Bachelor of Business Administration in Management Information Systems C. T. BAUER COLLEGE OF BUSINESS

Rebecca M. Ramos Bachelor of Business Administration in Management Information Systems C. T. BAUER COLLEGE OF BUSINESS

Kimberly Shen Bachelor of Science in Global Hospitality Leadership CONRAD N. HILTON COLLEGE OF GLOBAL HOSPITALITY LEADERSHIP

> Yvana Suarez Bachelor of Business Administration in Finance C. T. BAUER COLLEGE OF BUSINESS

Commencement Ceremony

The President's Medallion

CULLEN FOUNDATION A true pillar of the community, The Cullen Foundation is dedicated to improving the quality of life of all people in Houston through sustained investments in highperforming education, health care, public service and cultural arts. Since its inception in 1947, the Foundation has distributed over \$500 million in grants supporting

numerous Houston institutions, including the Museum of Fine Arts Houston, YES Prep Public Schools, Memorial Park Conservancy, New Hope Housing and The Houston Food Bank, among others. In its 75 years of existence, The Cullen Foundation has given more than \$82 million to the University of Houston System.

The Foundation was established by Hugh Roy and Lillie Cranz Cullen and, today, Cullen family members carry on their legacy of philanthropy through active roles as directors of the Foundation. The Cullen family and The Cullen Foundation have been generous and longtime supporters of the University of Houston, with Hugh Roy Cullen's support dating back to the University of Houston's first decade. A devoted champion of the University, during his lifetime he gave millions to various UH projects, served as chairman of the then University of Houston Board of Regents and had the College of Engineering named after him in honor of his unyielding philanthropy.

In 2013, the Foundation pledged \$10 million to UH's historic "Here, We Go" campaign, funding two new endowed chairs, support of the dean's chair in the Kathrine G. McGovern College of the Arts, the Hewlett Packard Enterprise Data Science Institute and multiple buildings. In 2020, \$600,000 was given to the Roy Cullen Building Renovation Fund. To address learning loss during the pandemic, in 2021, the Cougar Tutors Instructional Recovery Partnership received \$500,000 from The Foundation. The generous gift enabled instructional recovery for students at six Houston-area charter schools.

The President's Medallion is awarded at the sole discretion of the President to organizations that have distinguished themselves by their support of the University of Houston.







Message from the Dean

Dear College of Natural Sciences and Mathematics Graduate,

Congratulations! Today, we celebrate a significant milestone in your educational career.

A few years ago, you came to the University of Houston with a personal goal. Now, you have attained it. Your degree is more than a testament

to your hard work; it is the foundation upon which you will build as you continue to learn throughout your lifetime.

Though part of your time at UH occurred during the unusual and trying times of a global pandemic, you adjusted to new ways of taking courses and changes to how you worked with others to get projects done. You learned to persevere. It wasn't always easy, but you succeeded!

As a graduate of NSM, you have proven that you are driven by inquiry, exploration, and innovation. You and your classmates will be the force behind discoveries that will revolutionize our lives and impact our state, nation, and the entire world.

As you leave UH and NSM, you hold the knowledge your professors shared with you, the wisdom you gained as you matured, and the benefit of personal experiences, professional connections, and friendships that will last a lifetime.

The faculty and staff of NSM are proud of your achievements. You have my best wishes for much success and happiness. Go Coogs!

Sincerely,

SWOZ

Dan E. Wells, Ph.D. Dean and Distinguished Professor of Science

College of Natural Sciences and Mathematics

Commencement Ceremony

Saturday, December 17, 2022, 9 a.m. Fertitta Center

PROCESSIONAL	Moores School of Music
PRESENTATION OF THE COLORS	Houston Battalion ROTC Color Guard
NATIONAL ANTHEM	Moores School of Music
WELCOME AND INTRODUCTORY REMARKS	Dan E. Wells Dean Distinguished Professor of Science
STUDENT ADDRESS	Christian Montemayor
PRESENTATION OF THE DAN E. WELLS OUTSTANDING DISSERTATION AWARD	Jeremy May Associate Dean, Graduate Affairs
PRESENTATION OF ACADEMIC HONORS	Donna Stokes Associate Dean, Undergraduate Affairs and Student Success
RECOGNITION OF 4.0 STUDENTS	Associate Dean Stokes
PRESENTATION OF DEGREE CANDIDATES	Dean Wells
	Associate Dean May
	Associate Dean Stokes
CONFERRAL OF DEGREES	Dean Wells
CLOSING REMARKS	Dean Wells
ALMA MATER	Moores School of Music
RECESSIONAL	Moores School of Music

College of Natural Sciences and Mathematics

Commencement Ceremony

Summer 2022 – Graduates

DOCTOR OF PHILOSOPHY

Atmospheric Sciences Elizabeth Renee Klovenski ADVISOR: Yuxuan Wang, Ph.D.

Arman Pouyaei Advisor: Yunsoo Choi, Ph.D.

Biology Saul Ernesto Acevedo Advisor: Ricardo Azevedo, Ph.D.

Chemistry Hatice Elmas Basbug Alhan **ADVISOR:** Eva Harth, Ph.D.

Yunsoo Choi Advisor: T. Randall Lee, Ph.D.

Dillon Michael Kopecky ADVISOR: Steven Baldelli, Ph.D.

Enkhjargal Tsogtgerel ADVISOR: Eva Harth, Ph.D.

Ziyan Zhang ADVISOR: Jakoah Brgoch, Ph.D.

Wenping Zou ADVISOR: Melissa Zastrow, Ph.D.

Computer Science Stuart M. Baxley ADVISOR: Deniz Gurkan, Ph.D.

Poonam Beniwal ADVISOR: Shishir Shah, Ph.D.

Geology Muhammad Nawaz Bugti Advisor: Paul Mann, Ph.D.

Aydin Gunduz Shahtakhtinskiy Advisor: Shuhab Khan, Ph.D.

Geophysics Zhongmin Tao Advisor: Aibing Li, Ph.D.

Mathematics Thuyen Trien Dang ADVISOR: Loic Cappanera, Ph.D. Akshat Tarun Das Advisor: Alan Haynes, Ph.D.

Megan E. Stickler Advisor: Krešimir Josić, Ph.D.

Physics Abhijit Chakraborty ADVISOR: Carlos Ordonez, Ph.D.

Arya Datta Advisor: Andre Cardoso Barato, Ph.D.

William Henry Harrison ADVISOR: Zhifeng Ren, Ph.D.

Yang He ADVISOR: Vassiliy Lubchenko, Ph.D.

MASTER OF SCIENCE

Biochemistry Hengameh Rezaei

Biology Kevin Paul Arguelles Dominguez

Chemistry Yanxin Chen Haowen Zhao

Computer Science

Afiya Ayman Sai Lakshmi Spandana Bulusu Satya Shodhana Gaddam Aditi Dilip Joshi Md Rafiqul Islam Rabin Firdous Samreen Sachin Shubham Amutheezan Sivagnanam Mudaseer Ul Haq Syed Thanoojha Venkumahanthi

Geology Hannah R. Anderson Angela Shirley Jacobs Bryan L. Moore Alyssa A. Tello Alvarado **Geophysics** Sharmila Appini

Applied Mathematics Shuyue Wang

Statistics and Data Science

Vanessa Loren Aguirre Henna Ali Grace Chen Chia-Hung Chien Haoxiang Du Sani Joseph Enchackal Rangwen Fan Carolina Garza Jessie Hoang Lyndon D. Kelley Brian Huynh Le Thuy Thi Thu Le Cuicui Lu Basel S. Najjar Angie D. Ortega Romo Tola Ouk Dikshya Poudyal Mengzhi Jay Song Tyler Christopher Stinson Ali Hussain Syed Ray Abraham Thomas Keely Wilson Xuan Zhang

Physics

Ken William Ssennyimb

BACHELOR OF SCIENCE

Biochemical and Biophysical Sciences Vy P. Le Sydni Anne Marsh

Biology

Andre Castaneda Luis Francisco Cavazos Marilyn Gil Barrera Sai Meghana Goolla

College of Natural Sciences and Mathematics

Commencement Ceremony

Illeana Kathryn Maria Levy Afshin Mousavi Mirkolaei ² Estela M. Nieto Ashley Puentes Hajar Rahioui Chakraphat Saengsasi Emily K. Song ³ Bineta Sonko Vincent N. Tangavelou Kim Thien-Van Vu ³ Arshan Waheed

Chemistry

Minh Hien Huynh

Computer Science

Nauman Uddin Ahmad ³ Yousef Osman Ahmed Sajah Al Zamili Muhammad Mustafa Aslam ³ Pierce Anthony Bondurant ³ Alexander Wesley Brewer ³ Hiep Hoang Duong Adeoluwa David Falade Henry O. Hite² Parker A. Lightsey Gilbert Lopez Elias Medelci² Chi Tran Phuong Ngo² Sevilay Ozturk Tudor Stefan Popescu² Adrian Alexander Rodriguez-Martinez 3 Jeremy Caleb Rouse Nathan R. Schaper Ankur Sharma² Khalyl Y. Smith Kyle J. Stulen Cecilia Tamayo Garza Muhammad Usman² Phuc Vo Mio Waller

Environmental Sciences Iris Chia Yi Hsu Nohely C. Vargas Quiroz

Geology

Caroline Emilia Mandujano Jonathan Neil Osborne Daniel Peter Ragusa ³ Karla Fernanda Reynoso Sujo ² Kevin Wu

Mathematics

Ruby Alvarado Jennifer A. Csicsery-Ronay Josh Blake Flynn II ³ Luis Martinez Guillermo Fabrizio Pacheco III Jerome J. Roy Ali Hamza Abidi Syed ² Kendall Truong

Physics

Kepler Huy Vu

College of Natural Sciences and Mathematics

Commencement Ceremony

Fall 2022 – Candidates for Graduation

DOCTOR OF PHILOSOPHY

Atmospheric Sciences Ellen Catherine Creecy ADVISOR: Xun Jiang, Ph.D.

Biochemistry Stewart Fannin ADVISOR: Mehmet Sen. Ph.D.

Patricia Celise Robertson ADVISOR: William Widger, Ph.D.

Biology Tianjiao Adams Advisor: Steven Pennings, Ph.D.

Joseph Lyle Reeve Advisor: Brigitte Dauwalder, Ph.D.

Sydnee Lea Spruiell Eldridge ADVISOR: Amy Sater, Ph.D.

Grimaldo Elias Urena Matos ADVISOR: Ricardo Azevedo, Ph.D.

Scott Joseph Widmann ADVISOR: Chin-Yo Lin, Ph.D.

Chemistry Abdullah Al Mamun

Advisor: Arnold Guloy, Ph.D. Sumitra Karki

ADVISOR: Ognjen Miljanić, Ph.D.

Rufeng Li ADVISOR: Chengzhi Cai, Ph.D.

Yu Liang Advisor: Allan Jacobson, Ph.D.

Manhua Pan Advisor: Tai-Yen Chen, Ph.D.

Computer Science Daniel Edward Biediger ADVISOR: Jaspal Subhlok, Ph.D.

Shuguang Chen ADVISOR: Thamar Solorio, Ph.D. Karima Elgarroussi ADVISOR: Christoph Eick, Ph.D.

Ruchi Kalpesh Shah Advisor: Panruo Wu, Ph.D.

Shaila Zaman ADVISOR: Ioannis Pavlidis, Ph.D.

Geology Rachel Warren Clark ADVISOR: Julia Wellner, Ph.D.

Md Nahidul Hasan Advisor: Paul Mann, Ph.D.

Linhan Li Advisor: John Casey, Ph.D.

Xiang Ling ADVISOR: Qi Fu, Ph.D.

Xiao Yu Advisor: Guoquan Wang, Ph.D.

Geophysics Xinyan Li Advisor: Jiajia Sun, Ph.D.

Yuhao Liu Advisor: Guoquan Wang, Ph.D.

Xiaolong Wei Advisor: Jiajia Sun, Ph.D.

Mathematics Michael Batista

Advisor: Mikhail Perepelitsa, Ph.D.

Seyyed Mahmood Ghasemi ADVISOR: Robert Azencott, Ph.D.

Manoj Subedi ADVISOR: Krešimir Josić, Ph.D.

Physics James W. Blair ADVISOR: Lisa Whitehead Koerner, Ph.D.

Bigyan Kandel ADVISOR: Oomman Varghese, Ph.D.

Casandra H. Morris Advisor: Lisa Whitehead Koerner, Ph.D. Jayahansa Sujith Malmini Napagoda Advisor: Oomman Varghese, Ph.D.

Dhan Bahadur Rana Advisor: Oomman Varghese, Ph.D.

MASTER OF ARTS

Mathematics Susana Duran

MASTER OF SCIENCE

Applied Mathematics

Joe Volney Jennings

Chemistry Milos Deric Muxin Qiao Jill Reroma Quitayen

Computer Science Vamshi Krishna Reddy Alluri Venkatasai Avilneni Nabeel Yusuf Bacchus Sai Krishna Bhopathi Vimarsha C. Ramesh Vijayalakshmi Chidambaram Nikhitha Gudi Isaiah Robert Hernandez Jaya Lakshmi Nandini Mangipudi Donald R. Mathews Tarun Matta Parisa Mehdi Gholampour Harashavardhan Reddy Munnangi Younus Mustafa Nithin Nerella Isrrael Aroldo Perez Viswanath Puppala Mohan Reddy Putluru Abhi Sneha Samanthula Kunal Sehta Sammy Tawakkol Sohamsinh Arjunsinh Thakor Khang Quang Tran Shaila Zaman

1 Summa Cum Laude – 2 Magna Cum Laude – 3 Cum Laude – 4 Banner Bearer

College of Natural Sciences and Mathematics

Commencement Ceremony

Geology

Michael Daniel Kelsey Taylor Gangi Maria Camila Lugo Gomez Devin Renee McQuaig Rachel Elaine Ronquille

Geophysics

Keenan Thomas Barker Brendan Stover Cornelison Owen Draper Amr Fahmy Elsabaa Matthew Franklyn Law Macdennis Ifeanyi Nwaeze

Statistics and Data Science

Nanda Praneeth Kuchipudi Oscar E. Recinos Sri Harsha Sadum Michael Saenz Krishna Rishi Vijay Saladi Martha Valdes Padron

Physics

Andres Ignacio Covarrubias

BACHELOR OF ARTS

Earth Science Emily Arredondo

Mathematics

Andrea Garcia Anguiano Sloan R. Kopelman

BACHELOR OF SCIENCE

Biochemical and Biophysical Sciences

Rose Mohammed Alhajri Sahar Mehboob Ali Arian U. Aziz Jonathan V. Bui Austin T. Hahn² Huong Thien Huynh³ Umar Nabeel Khan² Raul I. Lara

Quinn M. Leaumont John A. Mansour¹ Taylor McPherson Ayush H. Mehta Ammie Nguyen Anthony Tran Nguyen 1,4 Kimberly Thanh Nguyen Ngoc Bao Nguyen Nha D. Nguyen Thy Q. Nguyen Veronica Pearl Obrien² Sarah Otekunrin Arianna Elyse Selph Zinab Abubakr Ahmed Wagdi Shaheen³ Sammy Taybi John C. Tran Sandy Yaa Foah Turkson²

Biology

Huzafa Adnan³ Shaikh Fatima Afaq Wasia Ahmed Rabia Akbar² Shahad Al-Gharrawi³ Hamza R. Alhasan² Saja Hava Alsahli Gayathri Anirudhan Loav Talal Asadi Zaineb Ashraf³ Alyssa Carmela Salomon Balaba Rami Mohd Bani Hani³ Isaac T. Benedict Maria Jose Blyth Sammy A. Bourji² Rodrigo Cabrera-Moreno Karen Farn Jung Cheng² Emilie Kate Cooper Christian John Cornillaud Jose Alejandro Cortes Sang X. Dang³ Andrea Del Villar² Vi Diep Christopher An Do Rachael M. Donckels Eric D. Dong

Jonathan D. Dullen² Shereen Y. Enan¹ Omar D. Fernandez Karen Nathaly Flores Mia L. Franchville² Pamela Pablo Galaang Shivi Garg¹ Sebastian Andres Gomez Maria J. Gonzalez Valeria B. Gonzalez Asma'A Husam Hamdoun³ Leandro Herrera Alvarez Valeria D. Hohl Amber Marie Hoskins³ Sai Savan Hunsucker Pollock Bassel Mohamed Ibrahim² Adaobi Ike Midhat Zehra Jafry^{1,4} Marissa Oyinkansola Jetawo Mekdes Jima Meagan Danielle Jones Muhammad Asad Kamal Kiarash Kamelan Richa Kiran² Joseph Aaron Koch Paul C. Kreit Aurelia G. Ksiez² Dao Hong Le Danielle N. Leger 3 Jing Ming Lim¹ Ruben Lopez Caroline M. Lugo² Shams Maallah ³ Faizan Jamal Malik Shafaq Basit Mandvia³ Angela Beatriz Marroquin² Lauren Mcdonald Stephanie Medina Melissa R. Mendoza Sally Adil Mikhaiel Rania Moin² Nancy Morfin Nabeeha Naeem³ Yusra Naeem Ali Nassiri²

1 Summa Cum Laude – 2 Magna Cum Laude – 3 Cum Laude – 4 Banner Bearer

College of Natural Sciences and Mathematics

Commencement Ceremony

Joseph Nhan Huu Nguyen² Minh Hoang Nhat Nguyen Paul M. Nguyen Paul T. Nguyen ³ Tiffany Nguyen Vinh Khanh Nguyen Dinara Nizamaddinova Chukwuedo Kendrix Okeibunor³ Adaeze M. Oparaochaekwe Madison A. Parker Utkarsh Patel¹ Jonathan Mauricio Paz Villatoro Brianna Jordan Perez Mary Potestas Janki Yagnesh Prajapati Zoie Ann Prochnow³ Sarika Grace Pulimootil³ Jocelyn Quach Thomas J. Randle David Mathew Reyes Jennifer Vanessa Reves Maria Fernanda Rodriguez Vinay Sagar¹ Cynthia M. Salinas³ Feliziano San Luis Robert J. Schnur³ Ryan Seto Joseph L. Shuchart Taylor Elizabeth Snyder¹ Kaela Nicole D. Solis Cameron L. Stovall Sean Patrick Sullivan² Moosa Raza Syed Sobia Syed Nassim Teymouri Alexis J. Tran³ Kate Thy Tran Nina Tran Steven Tran³ Tammy Truong³ Ethan Russell Tullos Jennifer K. Umanzor Payam Vakili Andy Van² Kilah S. Vanevenhoven²

Jennifer Vasquez Manushi Vatani ³ Jorge Rafael Vazquez Kyia Walker Qi Wan ³ Vriana Charity Washington Nadil Watagoda Samantha Weist Zackary Hunter Wilke Parker Ryan Worm Jennifer Bisilola Yesufu Khanssa Zahid Leen Zeitouneh Steven John Ziegler Mejia

Chemistry

Phillip David Busch Matthew Dadivas Mason C. Eymard Ana Lilian Fernandez Alfaro Jenny Claire Johnson Kevin Vinh Le Elizabeth A. Magelky Ali H. Medjaouri Hanh T. Ngo Tram Hoang Ngoc Nguyen Michael J. Sacra ⁴ Aina Sebastian Gabriel Yeung

Computer Science

Oluwaseun T. Adeniji Iyanuoluwa Victor Adeyeri Diogo Filipe Borges Aires Leena Alafifi Rafay Alam Saineef Saiyad Ali Chiemela Ezinne Amaefule ³ Daniel Elan Amran Victor M. Artiles Seonjae Baek Benjamin Matthew Bates ² Celide Rosalinda Bazan Corros Casey Silvina Bernal Daniel Alejandro Berreles Mendoza Syeda Zuha Beyabani

Daniel Jacob Bonilla² Mohammed Muaz Bourhani Makayla Allison Brady² Dylan K. Buras Aristoteles Rosario Dange Cajiza Cesar Orlando Campos Rolando Castaneda En-Yu Chu² Sara T. Ciesielski Gabrielle Juliano Co² Travis L. Cook Jeremy Crain³ Gabriel Arquiza Cruz Joaquin E. De Leon Loudy Adamian Effendi² Dean Ferreira **Kevin Flores** Sri Ganesh Ganta³ Joseph K. Gomes Yuanjie Guan Erik Herbert-Hernandez² Jacob McCandless Hestand Jacob Daniel Higdon³ Hugh H. Hoang³ Ngan Kim Hoang³ Nicholas H. Hoang Cheng Chun Hsieh Huan Huynh ¹ Adil Sheikh Iqbal John Dreaper Jackson Jeff John Tariq Kharsa ³ Lingwei Kong¹ Angelita Marie Krepel³ Aitmyrza Kubanychbekov³ Paul R. Kuruvila² Ngan Kim Le Jeffrey A. Levan² Romaine A. Lewis Khai Ngoc Cat Luong Thanh Ban Ly² Chengxin Lyu Shamee Shafeen Mahmud ³ Muhammad Waleed Malik² Ruben Malvaez

1 Summa Cum Laude – 2 Magna Cum Laude – 3 Cum Laude – 4 Banner Bearer

College of Natural Sciences and Mathematics

Commencement Ceremony

Rodrigo L. Mariaca³ Maryum Mateen Abibou Mbodji Brianna Jonelle McDermott Sammy C. Melendez Sergio Mendez Lizandro Jesus Meza Jordan F. Miles 1,4 Christian Montemayor 1 Nicholas Moreno Christian Nguyen Manh Nguyen Nathan Nguyen Phong Thai Nguyen² Phu Nguyen Vuong Dang Nguyen Andy Nguyencuu² Boris Banyee Ofon Daniel Rudy Olvera Emmanuel Chinyerem Onuoha² Jeff Onvemachi **Christopher Perez** Nguyen Khang Pham Tan Pham¹ Thien M. Pham³ Matthew J. Philip 1 Leo Quezada ³ Joseph Patrick Raogninirina Syed Rizvi² Zachary C. Robinson² Cristian A. Sanchez Gabriel Sanchez³ Julio A. Santos Sergio Sanz³ Dhruv Manish Shah² Jinangkumar Yakinkumar Shah² Yusra Shaikh Kavtlin Lauren Simmer Joshua Thomas Smith '

Sevban Sonmez Iliyan K. Sunasara Jana T. Tahan³ Raymundo Rafael Torres Olague Xena Lola Chloe Toumajian³ Scott Tran Haris Tukdi² Muhammad Mamoon Uddin Antonio Urias-Cordero Lizthebett Valdivia Nathaniel Valtierra² Thien An Van 3 Brian A. Vasquez Hannah J. Wolken³ Aaron M. Wright Evan Wu² Lujia Wu Xiaoyuan Xu² Ammara Yamin Michael Carl Yannuzzi Tyonne Dwayne Zachery Murtaza S. Zaidi² Tahmeed Zaman Vanessa L. Zambrano³ Hernan Zuniga

Environmental Sciences

Iris Chavez Hannah Brooke Haas Lance L. Nguyen Muzammil I. Usmani

Geology

Samantha Clair Baker ³ Thach Hong Bui Zafiro Martinez Karla Ortega ^{3.4} Alain Tort

Mathematical Biology Nidhi Gongati³

Michelle Quynhan Tran² Megan T. Wallace

Mathematics

Kevin Juan Aguilar Cano³ Mayra Renee Aguilera Colindres² Sana G. Ali Jobin Biju³ Joshua Steven Burell En-Yu Chu² Liliana T. Cruz² Khoa Doan Katherine Lizzette Fuentes Ricardo Garcia Megan E. Glass Linh Dung Ho Sumin Kim Elissa Kuon¹ Francesca Laezza Labate Emily Le Jesse A. Martinez ³ Sarah Jadyn Jia McReynolds Sammy C. Melendez Christian Montemayor¹ Clark Lewis Nelson Quoc Anh Nguyen² Olisa Onyebuchi Nwora Jasmine D. Sanchez² Slater James Smith Antony Tharappel Azalia Liz Trujillo 1,4 Hernan Zuniga

Physics

Chikara Nicholas Abe-Stowe Britney Nicole Cid Eric Alan Johnson Michael Samuel Trujillo Innara Vellani ⁴









Message from the Dean

Congratulations, Class of 2022!

Today, we gather to celebrate you and your successful journey through the University of Houston and the Honors College.

Know that each of you has made history -- by persevering through a world pandemic, never losing sight of the goal! But the pandemic did not deter you despite unprecedented difficulties.

I've been affiliated with the Honors College for more than 45 years of my 48-year career as a faculty member at the University of Houston. My association began before it was even a college as you know it today – it began as the Honors Program in the 1950s. Since those initial beginnings, I have seen unprecedented growth, both in numbers of students and programs, and in overall quality. I believe that the Honors College provides exceptional opportunities to our students and has become increasingly important to the University.

With the guidance of outstanding faculty and staff, you have thrived and grown as you navigated your way through the Honors College's exceptional academic experiences, unparalleled opportunities in research, and real-world service to the community.

Independent of the path you have taken, you are not in the same place you were when you began this journey, and neither is the College. During your time in Honors, you have been a part of its dynamic growth and development with the addition of new minors, a record-breaking number of awardees of scholarships and major awards, and new opportunities for both research and co-curricular engagement.

As you begin your careers or continue your studies through graduate or professional programs, we know that you'll be well prepared to lead in your chosen field and continue contributing solutions to the grand challenges of tomorrow.

Although you're graduating, the Honors College will always be a part of your life. Stay connected with the College as an alum and I hope you will support the College's programs and scholarships for future generations.

Go Coogs!

Fuart A. Long

Stuart Long Interim Dean and Associate Dean, Undergraduate Research



The Honors College Honors

The Honors College at the University of Houston offers students special opportunities to develop their academic abilities. Below are the Honors College designations.

University Honors and University Honors with Honors in Major

Students who complete the Honors College curriculum (36 hours) graduate with University Honors. If students also complete a senior honors thesis, they graduate with University Honors with Honors in Major.

Collegiate Honors and Collegiate Honors with Honors in Major

Students who fulfill the requirements for the honors program in the college of their major, including 21 hours of honors courses; who complete an Honors College minor, or who complete 21 hours of approved honors courses. If students also complete a senior honors thesis, they graduate with Collegiate Honors with Honors in Major.

Membership in The Honors College and Membership in The Honors College with Honors in Major

Students who affiliate with the Honors College during their undergraduate years and complete fewer than 21 hours of honors courses. If students also complete a senior honors thesis and fulfill the requirements of their major with distinction, they graduate with Membership in The Honors College with Honors in Major.

Honors in Major

Students who complete a senior honors thesis but are not members of the Honors College.

University Honors with Honors in Major

C. T. BAUER COLLEGE OF BUSINESS

Anna Mayzenberg Ethan Paquet

University Honors

C. T. BAUER COLLEGE OF BUSINESS

Mahin Ahsan Sheheryar Ali Jack Alexander Barsotti Abigail Bryant Colin Campbell Blake Brvan Deckard Derick Adrian Del Rio Cody Wayne Doyle Zarius Kersi Engineer Victoria Escobar Josh Flynn Clarissa Juliet Garcia Vividha Gupta Megan Tien Harris Aaron Edward Hart Trent Cade Holub Jeline Jabbour Aamirah Jamal Amy Quynh Lai Lindee Le Sana Nguyen **Emily Nham** Amritha Poozhikunnath Manojkumar Fernanda Olvera liten Oza Rebecca Ramos Mahmood Rameen Rastegari Alexandra Marie Romero Emma Francisca Saenz Chandler Adam Scott Christianna Simon Ana Paola Torres Lopez

College of Liberal Arts and Social Sciences

Ashley Dianne Acuna Marco Antonio Garcia Hana Osama Mohamad

College of Liberal Arts and Social Sciences

Chinonso Nnenna Agodu Elnora Awatt Syeda Maryam Beyabani Kaleb M. Clark Blake Bryan Deckard Isabella Frazier Cira-Marie Frias Jhoana Marie Icay Fulgencio Claire E. Fuller Connor Adrian Garcia Maya Annika Garza Summer Rose Gebrail **Jaelvs** Gonzales Michelle Marie Guerra Iosue Guerrero Daniela M Herrera Almaguer Amina Aslam Khan Kush Kinariwala Marley Knittle Amina Malik Suzanne Marie Mastren Villa Gasper Matovu Reagan Mccawley Sondos Moursy Duc Gia Bach Nguyen Tag Fouad Osama Sydney Michelle Perkins Anna Marie Rowbatham Amna Zehra Saleem Hassan A. Sved Minahil Zaki

KATHRINE G. MCGOVERN College of the Arts

Mia L. Garcia

COLLEGE OF EDUCATION

Gabriela Christine McAndrew

CULLEN COLLEGE OF ENGINEERING

Shiv Chopra Yusef Haikal John Mcnamara Marcos Elian Ibarra Montoya Joseph C. Palacios Jocelyn Ramos Dorthy Alynna D. Tapic Tyler D. Todd

CONRAD N. HILTON COLLEGE OF GLOBAL HOSPITALITY LEADERSHIP

Megan Aimee Schultz

College of Natural Sciences and Mathematics

Shaikh Fatima Afaq Isaac Thomas Benedict Sammy A. Bourji Gabrielle Juliano Co Emilie Kate Cooper Shereen Yasser Enan

University of Houston The Honors College

Mia Franchville Jacob Daniel Higdon Amber Marie Hoskins Jenny Claire Johnson Richa Kiran Jesse Andres Martinez Christian Montemayor Nha Nguyen

Collegiate Honors

College of Liberal Arts and Social Sciences

Camille R. Blanchard Gabriela Katherine Davila Victoria Elizabeth Davila Marenna Elizabeth Emerson Alex Ferrer Walter Figueroa Jeremiah Kilbane Imani Elaine Lewis Helen Louise Long Amelia A. Mcdill Jane Ijeoma Onuoha Enrique Salinas Kennedy Temple Nicole Thude Jaclyn Vaughn Chukwuedo Kendrix Okeibunor Gabrielle Olinger Matthew Philip Kaela Nicole De Leon Solis Sammy Taybi John Tran Michelle Tran Daniel Wadhawan Nadia Ariana Zamany Vanessa Zambrano

COLLEGE OF TECHNOLOGY

Saamiya Syed Angela Lumei Young

KATHRINE G. MCGOVERN COLLEGE OF THE ARTS

Paulina A. Khotskaia Phillip Velarde

COLLEGE OF EDUCATION

Mariam Haider

CULLEN COLLEGE OF ENGINEERING

Daniel Dorali Mark Escudero Mekiah D. Hickman Tom Jacob Joseph Gantabya Kadel Alexandru Ioan Neagu Robert Peter Sipowicz Dobri Nikolaev Stalev

College of Natural Sciences and Mathematics

Shahad Algharrawi Syeda Zuha Beyabani Jonathan Dullen Jing Ming Lim Angela Beatriz Marroquin Rania Moin Syed Mushfiqur Rahman Karla Fernanda Reynoso Sujo Zachary Robinson Robert James Schnur Slater James Smith Hannah Wolken

COLLEGE OF TECHNOLOGY

Jade Thanh Nguyen

Membership in The Honors College

College of Liberal Arts and Social Sciences

Michael Isaac Gutierrez Jose P. Samperio COLLEGE OF NATURAL SCIENCES AND MATHEMATICS Syed Abidi Rose Alhajri Sana Gulzar Ali Nicholas Hoang Veronica Pearl Obrien Emily Song

Honors in Major

COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES Joshua Cornelius





Message from the UH Alumni Foundation Board President

Congratulations 2022 Graduates!

Let me be the first to welcome you to the UH Alumni Association. You are joining a global network of over 305,000 Cougars. With your participation, we can only grow stronger. As you embark on this next chapter, know that your Alumni Association is here to help you stay connected with your beloved alma mater. From volunteering, using your UH Go app to login as an alumnus, joining a group, coming to

events, to becoming a Life Member, the opportunities to engage are endless.

To start your journey as an alumnus, please click the QR code below so you can enjoy all the activities that soon await you. In the meantime, enjoy this moment and continue to soar.

True we'll ever be and Go Coogs!

Wayne Luckett ('74) UH Alumni Association Foundation Board President



Have You Completed Your Graduation Checklist?





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The University of Houston is an EEO/AA Institution.