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Message from the President

December 17, 2021

Dear University of Houston Graduates,

Congratulations! The moment you’ve long dreamed of today becomes a reality. Today, you become a college graduate. The long hours, late nights and countless sacrifices have all been worth it. Your hard work has prepared you for a rewarding and successful career.

You are a class of graduates that didn’t allow a global pandemic to stop you from achieving your goals. Staying the course during these trying times is a testament to your resilience and tenacity. I have no doubt these same attributes will serve you well as you make your mark in the world. You leave here today educated, equipped and prepared to succeed.

The support of your parents, families and friends, and the encouragement of your UH faculty, advisers and staff have also played a significant part in your success. Remember to thank them for their contribution.

You’ve received a first-class education here at UH. This is the home of “genius grant” winners, nationally top-ranked academic programs, world-renowned faculty, an NCAA Final Four basketball team, Carnegie-designated Tier One research and so much more. Now, go forward as proud graduates and take the world by storm. I know in my heart that you are now ready and able to be the leaders that our society needs. You are the future we have been waiting for.

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

Warmest regards,

Renu Khator

Renu Khator
President
Message from the Provost

Congratulations, Cougars!

I would like to personally congratulate each of you on this momentous achievement. You have worked hard to be here today, and that effort shows.

Your family, friends, mentors and peers have supported you and helped you to arrive at this great time in your life. So, I thank them, as I am sure you also do, for all they have contributed.

I would like to remind each of you to be proud of your time at the University of Houston. You graduate today as future intellectual leaders, researchers, entrepreneurs, healers and artists. Do not forget that you are bound together by your alma mater, and that bond is a strong one. Many of your predecessors have gone on to achieve great success in their professional lives. I wish the same for you.

Whether you are receiving your bachelor’s, master’s, professional or doctoral degree, you have achieved a major milestone in your life. We are proud of you, and we are proud you are now Tier One University of Houston alumni.

On behalf of all the University faculty and college deans, I congratulate you on your achievements. You are our best and brightest, and we are honored to have been a part of your lives.

Warm regards,

Paula Myrick Short
Senior Vice President for Academic Affairs and Provost
University of Houston System

BOARD OF REGENTS
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Durga D. Agrawal, Secretary
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Alonzo Cantu
Steve I. Chazen
Derek M. Delgado
John A. McCall Jr.
Beth Madison
Ricky Raven

University of Houston

PRESIDENT
Renu Khator

PRESIDENT’S CABINET
Paula Myrick Short
Theresa M. Monaco Chair for the Provost
Senior Vice President for Academic Affairs and Provost
Raymond S. Bartlett
Senior Vice President for Administration and Finance
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Michael Pedé
Associate Vice President for Alumni Relations
Chris Pezman
Vice President for Intercollegiate Athletics and Athletics Director
Jason Smith
Vice President for Governmental Relations
Stephen J. Spann
Vice President for Medical Affairs and Founding Dean, College of Medicine
University of Houston Deans

Anthony P. Ambler
College of Technology

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
Dean
Hobby School of Public Affairs

Athena N. Jackson
Elizabeth D. Rockwell Endowed Dean’s Chair
University of Houston Libraries

Robert McPherson
Elizabeth D. Rockwell Endowed Dean’s Chair
College of Education

William Monroe
Nancy O’Connor Abendsee Endowed Professor
The Honors College

Daniel P. O’Connor
Interim Dean
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 Hotel and Restaurant Management

Stephen J. Spann
Founding Dean
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
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 47,000 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.
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.
University of Houston
Commencement Ceremony

UH LAW CENTER
- Master’s Degree: Hood: Purple, Tassel: Black
- Doctoral Degree: Hood: Purple, Tassel: Black

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

COLLEGE OF MEDICINE
- Doctor of Medicine Degree: Hood: Kelly Green, Tassel: Red

COLLEGE OF NATURAL SCIENCES AND MATHEMATICS
- Bachelor’s Degree: Tassel: Golden Yellow
- Master’s Degree: Hood: Golden Yellow, Tassel: Black
- Doctoral Degree: Hood: Dark Blue, Tassel: Red

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
- Master’s Degree: Hood: Olive, 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: Tassel: Maroon
- Master’s Degree: 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*
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 2021

Ryan Chang
Bachelor of Science in Biology
College of Natural Sciences and Mathematics

Rabia Gadrab
Bachelor of Business Administration in Supply Chain Management
C.T. Bauer College of Business

Julia Nguyen
Bachelor of Business Administration in Supply Chain Management
C.T. Bauer College of Business

Kelly Nguyen
Bachelor of Business Administration in Finance
C.T. Bauer College of Business

Kimberly Nguyen
Bachelor of Business Administration in Supply Chain Management
C.T. Bauer College of Business

Jacob Olsen
Bachelor of Business Administration in Supply Chain Management
C.T. Bauer College of Business

Precious Amber Vargas
Bachelor of Business Administration in Supply Chain Management
C.T. Bauer College of Business

Istvan Wang
Bachelor of Science in Computer Science
College of Natural Sciences and Mathematics

Shehzad Yousaf
Bachelor of Science in Computer Science
College of Natural Sciences and Mathematics
Message from the Dean

Dear Engineering Graduates,

The receipt of an engineering degree is a challenging, but worthwhile endeavor. Each of you spent thousands of hours studying, conducting research, gaining professional experience, giving back to the community and so much more. All of this took immeasurable amounts of hard work and sacrifice, made even more daunting by the pandemic, but you persevered. You are among the best, brightest and most committed engineers the world has to offer.

As you leave our labs and classrooms to embark on your careers, I encourage you all to ask questions and challenge the status quo. By asking questions, we introduce the need for change. As engineers, we have the power to create lasting impacts and perhaps, if we are lucky, leave the world a better place than we found it.

Congratulations, Cougar Engineers! Although you represent a wide variety of backgrounds and disciplines, today you all have one thing in common – you are all part of the Cougar Engineering family, now and always. Remember to work hard and to support each other where you can. Everything else will fall into place.

I look forward to seeing the impact your bright futures and careers will have on our world. Please stay in touch and keep me updated on your successes: dean@egr.uh.edu.

All my best,

Joseph W. Tedesco
Dean and Professor
Elizabeth D. Rockwell Endowed Dean’s Chair
<table>
<thead>
<tr>
<th>Event</th>
<th>执行者</th>
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<tbody>
<tr>
<td>PLATFORM PARTY PROCESSIONAL</td>
<td>Moores School of Music</td>
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<tr>
<td>CALL TO ORDER</td>
<td>Jagannatha Rao</td>
</tr>
<tr>
<td></td>
<td>Associate Dean, Undergraduate Programs and Distance Learning</td>
</tr>
<tr>
<td>PRESENTATION OF COLORS</td>
<td>UH Army ROTC Color Guard</td>
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<tr>
<td>NATIONAL ANTHEM</td>
<td>Moores School of Music</td>
</tr>
<tr>
<td>WELCOME AND INTRODUCTION OF PLATFORM PARTY</td>
<td>Joseph W. Tedesco</td>
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<td>Elizabeth D. Rockwell Dean</td>
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<tr>
<td>GREETINGS</td>
<td>Renu Khator</td>
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<td></td>
<td>President</td>
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<td>GREETINGS FROM UH SYSTEM BOARD OF REGENTS</td>
<td>The Honorable Durga D. Agrawal</td>
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<tr>
<td></td>
<td>Secretary</td>
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<tr>
<td>PRESENTATION OF ACADEMIC AND SPECIAL HONORS</td>
<td>Associate Dean Rao</td>
</tr>
<tr>
<td>COMMENCEMENT ADDRESS</td>
<td>Ram Seetharam</td>
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<tr>
<td>DEGREE PRESENTATION</td>
<td>Dean Tedesco</td>
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<tr>
<td>CONFERRAL OF DEGREES</td>
<td>President Khator</td>
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<tr>
<td>CLOSING REMARKS</td>
<td>Dean Tedesco</td>
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<tr>
<td>ALMA MATER</td>
<td>Moores School of Music</td>
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<tr>
<td>PLATFORM PARTY RECESSIONAL</td>
<td>Moores School of Music</td>
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**Ram Seetharam**

Ram Seetharam is currently an Energy Center Officer (part time) at UH Energy, a multi-disciplinary energy research program at the University of Houston. He serves as a project manager for low-carbon energy projects such as hydrogen, wind, geothermal and methane abatement. Seetharam is also the Executive Vice President for Business Development & Technology at Cozairo, a company that offers scalable carbon emissions reduction solutions to industry.

Seetharam recently retired from ExxonMobil as a senior executive after being with the company for 33 years and having accumulated nearly 40 years of experience in the upstream industry. His upstream experience includes subsurface, concept selection, project and oilfield economics, asset valuation and technical support of major capital projects. He has held multiple key managerial and technical leadership positions influencing major upstream projects in the industry across the globe, spanning Kazakhstan, Russia, the North Sea and the Middle East. He also has experience with unconventionals.

Seetharam serves on the Industry Advisory Board for the UH Petroleum Engineering Department, and was recently recognized with the Distinguished Engineering Alumni Award from the Cullen College of Engineering and UH Engineering Alumni Association.

Seetharam has a master’s and Ph.D. in chemical engineering from the University of Houston, and a bachelor’s in chemical engineering from the Indian Institute of Technology, Madras.
University of Houston
Cullen College of Engineering

Commencement Ceremony

Summer 2021 - Graduates

**Doctor of Philosophy in Biomedical Engineering**

Sadaf Ebrahimzadeh Pustchi  
Engineering a Novel 3D Tumor Microenvironment for Drug Testing  
**Advisor:** Dr. Metin Akay

Tina Kazemi  
Investigating the Influence of Maternal Nicotine and Alcohol Co-Exposure in Genetic Profiles of Dopamine Neurons in Newborns  
**Advisor:** Dr. Metin Akay

Dalia L. Lezzar  
Novel Microfluidic Devices for Diagnosis and Treatment of Blood Disorders in Vulnerable Pediatric Populations  
**Advisor:** Dr. Sergey S. Shevkoplyas

**Doctor of Philosophy in Chemical Engineering**

Do Young Kim  
Controlling Pathological Mineralization Using Molecular Modifiers  
**Advisor:** Dr. Jeffrey D. Rimer

Peng Lin  
Numerical Simulation of Plasma Flow in Atmospheric Pressure Plasma Jets  
**Advisors:** Dr. Demetre J. Economou and Dr. Vincent M. Donnelly

Bhaskar Sarkar  
Ignition-Extinction Analysis of Coupled Homogeneous-Heterogeneous Reactions in Monolith Reactors  
**Advisor:** Dr. Vemuri Balakotaiah

Minjie Shen  
Sustainable and Degradable Epoxy Resins Containing Multifunctional Biobased Components  
**Advisor:** Dr. Megan L. Robertson

Maxwell William Smith  
Understanding and Applying Anisotropic Virus Particle Transport in Complex Media  
**Advisor:** Dr. Metin C. Conrad and Dr. Richard C. Willson

Ricardo David Sosa  
Unraveling Barite Scale Crystallization Mechanisms in the Presence of Polyprotic Acids  
**Advisor:** Dr. Jeffrey D. Rimer

Mingjie Tu  
Reduced Order Models with Local Property Dependent Transfer Coefficients for Real Time Simulations of Single and Dual Layered Monolith Reactors  
**Advisor:** Dr. Vemuri Balakotaiah

**Doctor of Philosophy in Geosensing Systems Engineering and Sciences**

Chi Hung Chang  
Forecasting Flood Levels and Areal Inundation in Downstream Mekong Using Remotely Sensed Data and Modeling  
**Advisor:** Dr. Hyongki Lee

**Doctor of Philosophy in Industrial Engineering**

Saba Ebrahimi  
Analytical Models and Data-Driven Methods for Radiation Therapy Treatment Planning  
**Advisor:** Dr. Gino J. Lim

Zahed Shahmoradi  
Data-driven Inverse Linear Programming: Integrating Inverse Optimization and Machine Learning  
**Advisor:** Dr. Taewoo Lee

**Doctor of Philosophy in Materials Science and Engineering**

Tzu-Han Li  
Control Strategies for Minimizing the DC-link Capacitance used in Power Electronics Converters for Aircraft Electrical Power Systems  
**Advisor:** Dr. Kaushik Rajashekar

Hyunseok Sim  
Soft Stretchable Synaptic Electronics and Integrated Systems  
**Advisor:** Dr. Cunjiang Yu

Ye Zhang  
Charge Storage Mechanism of Redox Polymers For Energy Storage  
**Advisor:** Dr. Yan Yao

**Doctor of Philosophy in Mechanical Engineering**

Alicia Li Jen Keow  
Modeling and Control of Hydrogen Systems  
**Advisor:** Dr. Zheng Chen

Nidhin Thomas  
Molecular Insights into the Electromechanical Coupling in Membranes and Membrane-Protein Systems  
**Advisor:** Dr. Ashutosh Agrawal
DOCTOR OF PHILOSOPHY IN PETROLEUM ENGINEERING
Naveen Krishnaraj
Title: Joint Inversion and Unsupervised Learning Applied to NMR Data Processing that Eliminates the Need for Regularization
ADVISOR: Dr. Michael T. Myers

Kaiyi Zhang
Mechanistic and Kinetic Study of Gas Storage and Transport in Unconventional Reservoirs Using Molecular Simulation
ADVISOR: Dr. Guan Qin

MASTER OF SCIENCE IN BIOMEDICAL ENGINEERING
Jean Banks
Kolade Oreoluwa Olowookere
William Joseph Riley

MASTER OF CHEMICAL ENGINEERING
Khang D. Nguyen

MASTER OF SCIENCE IN CHEMICAL ENGINEERING
Sangmin Chae

MASTER OF SCIENCE IN CIVIL ENGINEERING
Shuvam Nandi
Dolunay Oniz
Niraj Shrestha
Sumnima Singh

MASTER OF SCIENCE IN COMPUTER AND SYSTEMS ENGINEERING
Depka Sathu

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING
Muhammad Rafay Akhter
Luciano Rezende Fiuza Branco

MASTER OF ENGINEERING MANAGEMENT
Leslie Frank Rodriguez

MASTER OF SCIENCE IN ENVIRONMENTAL ENGINEERING
Tchemongo Barakissa Berte

MASTER OF SCIENCE IN MECHANICAL ENGINEERING
Kalyan Boyina Satish
Shaobin Du

MASTER OF PETROLEUM ENGINEERING
Robel Sintayehu

MASTER OF SCIENCE IN SUBSEA ENGINEERING
Ben Robert Krier

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING
Thy Phuong Nguyen

BACHELOR OF SCIENCE IN CIVIL ENGINEERING
Eyad Tanbouz
Imad M. Tanbouz

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
Linh Hoang

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING
Ahmad Mohamad Al Abdallah
Mohammad Neem Alkhayyat
Harrison J. Azbell
Blake Ryan Bolster
Sharla May Cimbak
Matthew Doan
Gerardo Garza
Nofil Haque
Tanvi P. Parikh
Woolford Price
Akintunde O. Sowunmi
Tyler Addison Vance

BACHELOR OF SCIENCE IN PETROLEUM ENGINEERING
Cristian J. Anguiano
Nhung Thi Hoang Nguyen

1 Summa Cum Laude - 2 Magna Cum Laude - 3 Cum Laude - 4 Banner Bearer (highest GPA)
University of Houston  
Cullen College of Engineering  
Commencement Ceremony  

Fall 2021 - Candidates for Graduation

Doctor of Philosophy in Biomedical Engineering

Hongqiu Zhang  
Noninvasive Optical Imaging for Assessment of Tissue Properties  
**Advisor:** Dr. Kirill V. Larin

Yuechuan Xu  
Microscopic Dynamics of Amyloid β Fibrillation  
**Advisor:** Dr. Peter G. Vekilov

Doctor of Philosophy in Chemical Engineering

Ankur Agarwal  
Molecular Modelling of Interfacial Processes and Mass Transport in Zeolites  
**Advisor:** Dr. Jeremy C. Palmer

Heng Dai  
Exploiting Nonclassical Crystallization to Tailor Molecular Diffusion in Zeolite Catalysts  
**Advisor:** Dr. Jeffrey D. Rimer

Rishabh Jain  
Developing Organic Free Crystallization Pathways for the Optimization of Zeolite Catalysts  
**Advisor:** Dr. Jeffrey D. Rimer

Kyle Andrew Karinshak  
Enhanced Methane Oxidation Catalysis through Feed Modulation and Oxygen Storage  
**Advisor:** Dr. Michael P. Harold

Deepak Mangal  
Simulation of Finite-sized Nanoparticles Transport Through Porous Media  
**Advisors:** Dr. Jacinta C. Conrad and Dr. Jeremy C. Palmer

Qianyu Ning  
A First-Principle Investigation of C-H bond Activation on Nickel Oxide: Electrochemical Activation of Methane and Oxidative Dehydrogenation of Ethane  
**Advisor:** Dr. Lars C. Grabow

Doctor of Philosophy in Civil Engineering

Cynthia Vail Castro  
Nature-based Solutions at the Interface of Hydro-environmental Science, Social Justice, and Complex Decision-making  
**Advisor:** Dr. Keh-Han Wang

Tejasree Mohan Phatak  
Optimal Material Design for Transport and Multi-criteria problems using Topology Optimization  
**Advisor:** Dr. Kalyana B. Nakshatrala

Doctor of Philosophy in Electrical Engineering

Md Rafiul Amin  
Scalable and Robust Inference of Hidden Impulsive Physiological Variables via Sparse Optimization  
**Advisor:** Dr. Rose T. Faghih

Hamid FKeri Azgomi  
Closed-Loop Regulation of Internal States in Wearable Brain Machine Interfaces  
**Advisor:** Dr. Rose T. Faghih

Dawei Chen  
Machine Learning for Multi-access Edge Computing and Autonomous Driving  
**Advisor:** Dr. Zhu Han

Yulang Feng  
Design and Calibration of High-Speed and Power-Efficient Flash ADC in FDSOI CMOS  
**Advisor:** Dr. Jinghong Chen

Han Lu  
Efficient Inversion Methods for Large-Scale Geophysical Inverse Problems  
**Advisors:** Dr. Xin Fu and Dr. Jiefu Chen

Sasidharan Prakasan  
Hybrid Supercapacitor Electrodes Based on Transition Metal Oxide/Graphene/3D-Porous Nickel Architecture  
**Advisor:** Dr. Shin-Shem Steven Pei

Goutham Selvaraj  
Control Strategies for Minimizing the DC-link Capacitance used in Power Electronics Converters for Aircraft Electrical Power Systems  
**Advisor:** Dr. Kaushik Rajashekara

Akshay Sujatha Ravindran  
Developing Robust Explainable Deep Learning Models using Electroencephalography for Brain-Machine Interface Systems  
**Advisor:** Dr. Jose Contreras-Vidal

Yuxuan Tang  
High-Performance CMOS Front-End ASICs for SiPM Detectors and High-Frequency Ultrasound and Photoacoustic Imaging  
**Advisor:** Dr. Jinghong Chen

Vani Murthy Vellanki  
Radar Cross Section Reduction of an Arbitrary Object using Active Antenna Elements  
**Advisor:** Dr. David R. Jackson

Li Yan  
2D Pixel-Based Inversion for Electromagnetic Logging Data  
**Advisor:** Dr. Jiefu Chen

Xu Yang  
Developing Label-free Imaging Techniques to Study Biological and Energy Conversion Processes  
**Advisor:** Xiaonan Shan

Yu Yao  
Fast Response DC/DC Converters for Pulsed Load Applications  
**Advisor:** Dr. Harish Sarma Krishnamoorthy
Doctor of Philosophy in Environmental Engineering
Adithya Govindarajan
Sediment Dynamics and Associations with Polychlorinated Biphenyls and Dioxins in an Urban Estuary
ADVISOR: Dr. Hanadi S. Rifai

Sachin Paudel
Polymer-Based Nanocarriers to Treat Intestinal Infection and Reduce Impact on Gut Microbiome
ADVISOR: Dr. Debora F. Rodrigues

Doctor of Philosophy in Geosensing Systems Engineering and Sciences
Le Thuy Tien Du
Operational Water Management in Transboundary, Highly Regulated Watersheds using Multi-Basin Model and Earth Observations
ADVISOR: Dr. Hyongki Lee

Doctor of Philosophy in Materials Science and Engineering
Nikhil Milind Chaudhari
Electrochemical Characterization of Negative Lead Electrode in Lead-acid Battery
ADVISOR: Dr. Stanko R. Brankovic

Benjamin Jason Emley
Scalable Processing Routes for Solid-State Energy Conversion and Storage Devices
ADVISOR: Dr. Yan Yao

Sofia K. Fanourakis
Visible Light Photocatalytic MoO3-Based Nanomaterial Synthesis, the Effect of Polymer Coatings on Their Photocatalytic Activity and Dissolution, and Their Applications in Water Treatment
ADVISOR: Dr. Debora F. Rodrigues

Qiang Fu
Investigation of Interface in Flexible Polymer Lithium Ion Batteries
ADVISOR: Dr. Haleh Ardebili

Jasdeep Makkar
Experimental and Numerical Fracture Toughness Evaluation of Phase Transforming Shape Memory Alloys
ADVISOR: Dr. Theocharis Baxevanis

Jonathan Javier Penaranda Mora
Elevated-Temperature Oxidative Curing, Friction and Wear of Polyphenylene Sulfide (PPS) and its Composites
ADVISOR: Dr. Su-Su Wang

Navjot Singh Randhawa
Flexible, Self-Attaching Substrates for Extra-Neural Cuff Interfaces based on Shape-Shifting Polymers
ADVISOR: Dr. John C. Wolfe

Zhoulyu Rao
Materials and Manufacture of Soft Optoelectronics for Curvilinear Imaging and Biological Stimulation
ADVISOR: Dr. Cunjiang Yu

Doctor of Philosophy in Mechanical Engineering
Maryam Bagheri
Grouping of Individual Entities Based on Common Features
ADVISOR: Dr. Andrea Prosperetti

Sihong He
Integrated Stress Wave Based Communication and Health Monitoring in Pipelines
ADVISOR: Dr. Gangbing Song

Nazmul Hossain
Performance Analysis of Numerical Models and the Effects of Key Parameters in Fluidized Beds
ADVISOR: Dr. Ralph Metcalfe

Xiongfeng Yi
Visual Servoing Control of Robotic System for Off-shore Oil and Gas Pipeline Inspection
ADVISOR: Dr. Zheng Chen

Mengqian Zhang
Advanced Modeling of the Thermomechanical Response of Shape Memory Alloys
ADVISOR: Dr. Theocharis Baxevanis

Doctor of Philosophy in Petroleum Engineering
Bingwen Deng
Numerical Simulation of Coupled Processes of Fluid Flow and Reactive Transport in Fractured Carbonate Formations Induced by Seawater Injection
ADVISOR: Dr. Guan Qin

Anandhan M. Selveindran
Machine Learning Assisted Reservoir Management for Injection Projects
ADVISOR: Dr. Ganesh C. Thakur

Clara Patricia Palencia Hernandez
Shale Gas Reservoir Spontaneous Imbibition Experiments, insight into Flowback Water Salinity
ADVISOR: Dr. Lori Hathon

Seyed Mahdi Razavi
Nonintrusive Reduced Order Modeling of Particle in Fluid Flow – Proppant Transport
ADVISOR: Dr. Syed M. Farouq-Ali
Co-ADVISOR: Dr. Mohamed Y. Soliman

Master of Science in Biomedical Engineering
Omar I. A. Abunofal
Anbuchezhian Arasu
Briana Banks-Jefferson
Alec Martin Entringer
Amin Firouzi
Lei Gonzalez
Ilaaf Husain
Ayooluwapo Peter Ijaseun
Tsunami M. Pinkney
Dennis Tran
Sylvia Xie
Crystal Mouliere Yarbrough

Master of Chemical Engineering
Patrick James Cable
Omar Y. Enan
Kevin Trung Thanh Le
Ramsha Syed
Masters of Science in Chemical Engineering
Mohamed Seddik Abdennadher
Yikang Peng
Ana Paola Velecillos Sandrea

Masters of Science in Civil Engineering
Farzanuddin Hisam Ahmad
Milad Ajir
Emmanuel Omara Ameda
Ashman Bhusal
Orlando Jose Mireles Gonzalez
Taha Saeed
Duong Thuy Vu

Masters of Science in Computer and Systems Engineering
Alex Michael Magyari
Bryan Onose Obabori
Sri Ram Rachakonda

Masters of Science in Electrical Engineering
Binh Luong Duong
Avish Paresh Gandhi
Mohamed H. Hassan
Farhana Islam
Saman Khazaei
Sana Mujeeb
Ravi Namuduri
Yang Hoc Nguyen
Uttam Reddy Pailla
Monica Virginia Perez
Ritik Ranjan
Javeria Saleem
Yaping Shi
Jose Alexander Tolino
Lynn Tran
David Chukwunweiken Utomi
An Thanh Vu
David H. Wong

Masters of Science in Engineering Data Science
Mary B. Bittar
Subin Roy Varghese

Masters of Engineering Management
Diego Jose Barrera
Ali Furati
Zain Rasheed Rajput
Alejandra Guadalupe Rangel

Masters of Science in Environmental Engineering
Jonathan Martin Vasquez

Masters of Industrial Engineering
Pradeep Reddy Amireddy
Wenjun Chen
Yash Mukesh Gandhi
Rajat Gupta
Mohammad Abid Mansoor Ali Jamadar
Muhammad Taimur Kamil
Ranjan Kumar
Tejas Mistry
Lohith Mittapally
Hardik Shrikant Pancholi
Vamshi Sama
Harsh Yatin Shah
Jai Sisodia
Kameswara Sukshe Sista
Sanket Mhasku Tajane
Poojan Jatinbhai Vora

Masters of Science in Materials Science and Engineering
Kunal Hansrajbhai Dudhat
Ikram Ul Huda Shehna

Masters of Science in Mechanical Engineering
Michael Payne
Brittany H. Spivey
Christopher Ryan Williams

Masters of Science in Mechanical Engineering
Kylie Quinn Hornbeck
Nastaran Khodabandehloo
Edmundo Martinez
Sina Nazifi Takan Tappeh
Anish Pageni
Daniel Putt
Dominic Van Der Walt
Yejin Wi

Masters of Petroleum Engineering
Mohammad Shirf Alawadi
Mustafa Bulut
Tejas Jayvant Pawar
Jade Elise Poxon

Masters of Science in Petroleum Engineering
Jose Augusto Benavides Arancibia
Aryab Mazumdar

Masters of Science in Space Architecture
Gerardo Cambronero
Osaid Sasi

Masters of Science in Subsea Engineering
Fabio Armando Iguaran Castillo
Elizabeth Gabriela Morillo
Tejas Jayvant Pawar
Zainab Zikar
Bachelor of Science in Biomedical Engineering
Muhamed Hafi I. Abdulrahman 3
Amirah Noorjahan Alam 1
Kelly L. Graham 1
Hakeem Muhammad-Ali Kassamali 2
Imad Salman Mahmood Magna 3
Nhi Vu Thao Nguyen 2
Thea Thao Pham 1
Vi Cao Tran 3
Esperanza Vazquez 2

Bachelor of Science in Chemical Engineering
Taha Ahmed Alali 2
Jakob Armond Claret
Manuel Carlos Diaz Bohorquez
Jv Kyle Alfeche Eclarin 3
Elias E. El-Tayssoun 2
Michael Anne Keaton
Mohamed Khaled Khalil 1
Iryna Lagrone 3
Temitayo Kolade Okeowo 3
Al Wayne Paredes
Laoshia Lashay Quaites
Eniola Ruth Sam-Olibale
Raymond Vo

Bachelor of Science in Civil Engineering
Fatimah Fathi Ismael Al Bazzaz 3
Nijo J. Alex 3
Hasan Almashhadani 3
Joaquin Isrrael Castaneda
Brandon Chandler
Mitchell Andrew Clark
Ryan Jay Cole
Fabiola Coronado 3
Yinglin Deng
Nikunj Manish Desai
Farah Mohamad Farhoud 3
Abi Marie Fleischmann 2
Hugo Garza 2
Alexis E. Gonzalez

Edward R. Hall
Chase Colby Jinks 2
Vontonio Rico Jones
Waleed A. Kanaan 3
Christopher Leija
Oscar Daniel Leon 2
Nolan Maciejjeski
Ayman Mubarak Manasia
Karol N. Naples
Vainqueur Mbuinga Ndangi 2
Nicky Nguyen
Thien Hoang Nguyen
Thomas M. Ochoa 2
Andrew Navarro Ramirez
Jose Armando Rodriguez
Thalia Salas 3
Edgar Eleutero Salazar Fernandez
Bryan Daniel Sandoval Medellin
Amanda Scudder
Matthew Mokhtar Shakerian
Cheuk Lung Wai 1
Xiangkai Zeng

Bachelor of Science in Computer Engineering
Alexis Cervantes
Luigi Alessandro Chiapponi 3
Dana Elisabeth Dailey 1
Hussein R. Jabak
Daniel King 2
Christopher Rene Montealvo
Charles Nguyen 2
Edward Arthur Sotelo
Othniel E. Udoh

Bachelor of Science in Electrical Engineering
Felix Gha Achuo
Cristian Jonathan Bernal 2
Jared M. Cantu
Mark A Eisenhour
David El Achi 1
Martin Esparza III
Christopher Allen Estes

Derian Fraga Salas 3
Marissa N. Garcia 3
Christopher Joseph Gerard
Sarah Danielle Hannusch 3
Brandon Alexander Harkins 3
Soga Haydari
Patrick D. Kelling 1
Sajid A. Khan 2
Mai Nu Ngoc Le 3
Adrian Lopez
Lance Austin Montoute 1
Zouheir Daniel Obeid 3
Dhruv R. Patel
John Logan Sammons
Thomas M. Samuel
Kathika J. Seneviratne 3
Christopher Darius Shedrick
John Davis Thibodeaux
Christine V. Tran
Dat Huynh Tran 1
Meghna Ajitsinh Vansia
Gibrian Vargas
Hannah Vu 1
Tawfiq Onimisi Zubairu

Bachelor of Science in Industrial Engineering
Bayan Abdelhakim Bani-Hani 3
Anderson U. Igeben
Sai Anuroop R. Mulukuri

Bachelor of Science in Mechanical Engineering
Aya Shawky Abushmeis 2
Taimoor Akram 2
Shady Fouad Alissa 2
Kazi Tanisha Zaman Angshu
Luis A. Araujo 3
Carlos A. Arcilla
Richard A. Ardila Cantillo
Eason Ryan Avant
Samantha M. Bales 3
Tommy James Belyeu

1 Summa Cum Laude - 2 Magna Cum Laude - 3 Cum Laude - 4 Banner Bearer (highest GPA)
### University of Houston
#### Cullen College of Engineering
#### Commencement Ceremony

<table>
<thead>
<tr>
<th>Name</th>
<th>Honors</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Alexander L. Blick</td>
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<td>1 Summa Cum Laude</td>
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<tr>
<td>Cierra C. Capdeville</td>
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<td>Nicolas Castillo</td>
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<td>Andrea Chapa</td>
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<td>Becca Rose Cox</td>
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<td>Natalie E. Crow</td>
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<td>Julio J. Herrera</td>
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<td>Matthew Justus Ramirez</td>
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<td>Quang Ngoc Vo</td>
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<td><strong>Bachelor of Science in Petroleum Engineering</strong></td>
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<td>Zaid Anwar Hassan Al Ramadneh</td>
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<td>Peter Winski</td>
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<td>Ricardo Zuniga</td>
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1 Summa Cum Laude · 2 Magna Cum Laude · 3 Cum Laude · 4 Banner Bearer (highest GPA)
Message from the Dean

December 17, 2021

We think of commencement as an end, a finish line, yet the word proclaims that this moment is a new beginning, that “today is the first day of the rest of your life” as the old posters and new memes remind us. Our graduation ritual of “walking” has been revived, despite the challenges familiar to us all, thanks to a promise and a commitment from Chancellor Khator. Walking is treasured by students and their families because it conveys in motion, symbol, and photograph the fact that you are literally taking next steps on a new journey into a new world.

Then-Senator Barack Obama, however, in a definitive speech entitled “A More Perfect Union,” quoted this famous line from a William Faulkner novel: “The past is never dead. It’s not even past.” And a great teacher and scholar, R.J. Kaufmann, had this insight about what we read, say, write, do, and experience: “Nothing is ever lost.” So, to understand a person in midlife, you need to know what they were doing between the ages of 18 and 24 and what was going on in the world during those years. To anticipate the person you will become, you might well reflect on what you have been doing over the last four or five years, inside and outside the classroom, and what has been going on in the world.

We are confident that what you have been reading, writing, and doing during your undergraduate years, the tonic tasks that you have undertaken, will not be lost. Breaking through to that hard-won epiphany in a Human Sit paper; taking your first oral exam and killing it (or vowing to kill it next time!); presenting your poster, virtually or in person, at Undergraduate Research Day; making the transition from mentee in year one to mentor in year three; developing a partnership with a middle school whose students could really use some Honors College tutors; developing cultural competencies and medical skills so you can responsibly serve a refugee community in Jordan; representing UH in a Model Arab League simulation in Washington or Cairo; becoming certified as a Community Health Worker in order to assist Third Ward families; completing a competitive application for a major award, and then interviewing for and perhaps winning a Fulbright, a Goldwater, or a Critical Language Scholarship. Despite the many challenges—or perhaps because of them—your generation has the opportunity to become a great generation, perhaps the greatest generation of the 21st century.

Our hope is that the past four or five years have prepared you for deep satisfactions in your professional lives, and beyond your professional lives. This week you are commencing, you are walking on in your journey. We are proud of you, and we hope that you will not be a stranger to joy or a stranger to us in the years to come.

Be safe and be well,

Bill Monroe
The Honors College
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 of Houston
The Honors College

University Honors with Honors in Major

COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES
Hannah Aurora Martinez

University Honors

C. T. BAUER COLLEGE OF BUSINESS
Cem Baber
Josue Isai Cruz-Arriola
Alexandra Dearborn
Paisley Fernandez
Kaleigh Michelle Flynn
Luis Felipe Galleno
Amanda Lynn Ganis
Juan Gabriel Laxa
Karim Hazem Machkhas
Shaan Moosa Muhammad
Bassam Razzaq
Megan Ann Robinson
Zoe Rountree
Rida Jawad Sarwar
Gabriel Segovia-Plate
Brooklyn Renee Smith
David Smith
Trang Pham Thuy Tran
Thanh Tu Tran
Kathryn Paige Van Horn

CULLEN COLLEGE OF ENGINEERING
Kyle Alfeche Eclarin
Marissa Garcia
Sarah Danielle Hannusch
Sajid Khan
Oscar Daniel Leon
Alfonso Merino
Sai Anuroop Mulukuri
Derek Nguyen
Zouheir Daniel Obeid
Megan Ann Robinson
Eniola Ruth Sam-Olibale
John Logan Sammons
Peter Winski

KATHRINE G. MCGOVERN COLLEGE OF THE ARTS
Doriane Alfon
Gabriela Ruth Gonzalez

COLLEGE OF EDUCATION
Megan Dorothy Cudal Buena
Tayma Lynn Machkhas
Kamryn Milan Schafer
Sara Safwan Syed
Vivian Nguyen Tran

COLLEGE OF NATURAL SCIENCES AND MATHEMATICS
Nooha Ali Ahmed
Alexander Kristopher Andrews
Travis Joseph Baylor
Brenna Chan
Richa Dudhia
Sydney Elizabeth Nutter
Elizabeth K. Odonnell
Alejandra Paiuk
Emma Schenck
Bryana Stigers
Pardis Zohari
Collegiate Honors with Honors in Major

COLLEGE OF EDUCATION
Dua Abidi

Collegiate Honors

C. T. BAUER COLLEGE OF BUSINESS
Alison Fae Vasterling

COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES
Megan Faye Barineau
Sean Patrick Dalton
Sophia Marie Frusco
Rhonda Hassan
Krystal Hinojosa
Ivana Lozano
Nathalie L. Nava

Ashlee Nixon
Ejenavi D. Ojigho
Hannah Elisabeth Price
Enrique Salinas

Areeba Ahmed
Emily Grace O’Neill

COLLEGE OF EDUCATION

CULLEN COLLEGE OF ENGINEERING
Samantha Marie Bales
Kelly Graham

Sofia Marie Sumira Esico
Avinash Kotecha
Cindy Mai
Yaseen A. Syed
Jan Stephen Magluyan Tamayo
Pichvyda Tuy

CULLEN COLLEGE OF ENGINEERING
Daniel John Saber

COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

CONRAD N. HILTON COLLEGE OF HOTEL AND RESTAURANT MANAGEMENT
Consuelo Maia Ecevido

COLLEGE OF TECHNOLOGY

Membership in The Honors College

COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES
Rahaf Omar Aldaim
Colin Carter
Cody Dickerson
Jochen Seeba
Juan Carlos Uribe

COLLEGE OF ENGINEERING

CONRAD N. HILTON COLLEGE OF HOTEL AND RESTAURANT MANAGEMENT
Consuelo Maia Ecevido

COLLEGE OF TECHNOLOGY

Burgundy Johnson

Lucas W. Teague
Hima Shaji Vadakekara