

System Modeling & Simulation Education and Research



Dr. Weihang Zhu

Principal Investigator

wzhu13@uh.edu, 713-743-6980

Dr. Suresh Khator

skhator@uh.edu, 713-743-4205





Dr. Ying Lin Industrial Engineering

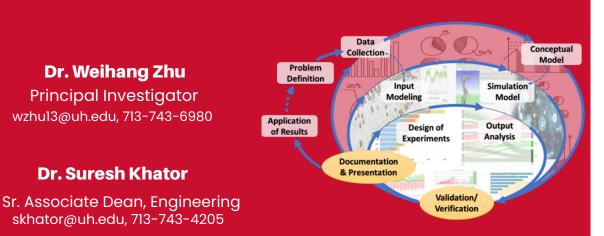
Dr. Paige Evans Co-Director, teachHOUSTON



Dr. Tomika Greer Human Resource Development

For more information: https://coss.egr.uh.edu/sms/ **University of Houston** Houston, Texas 77204

HOUSTON



Certificate Program in System Modeling and Simulation **U.S. Department of Education**



The University of Houston (UH) System Modeling and Simulation (SMS) program is sponsored by U.S. **Department of Education Grant** P116S230007. The goal is to promote SMS education and research at UH. We will offer SMS Certificates to Graduate and Undergraduate students



U.S. Department of Education

SMS Certificate

For UH students

University of Houston will offer Graduate and Undergraduate SMS Certficates to students who completed two core courses and at least two of the four elective courses.

Core Courses:

- Probability and Statistics
 - System Simulation Electives:
 - Data Analytics
- Simulation Optimization
- Virtual Reality and Digital Twins





Selected SMS Research Topics:

- Discrete event simulaiton
- Agent based modeling
- Monte Carlo simulation
- Digital twin
- Cyber-physical systems
- Uncertainty quantification
- Stochastic modeling

"The simulation course I took at the University of Houston has been instrumental in my work as a Sr. Material Flow Optimization Engineer at Amazon. The skills and knowledge I gained from that course have allowed me to use simulation to improve the flow of material through sort centers and optimize process paths. Simulation has also facilitated running 'what-if' scenarios to help drive important business decisions." -Adil Malik, Sr. Material Flow Optimization Engineer at

Amazon

Research Activities

Undergraduate Research Positions Available!

More

Details?

• Each summer there are five undergraduate research positions available for the three summer months. You will work with professors to gain experience in system modeling and simulation!

Visit:

coss.egr.uh.edu/sms/

Where are SMS experts working?

 Amazon, Tesla, Uber, MD Anderson Cancer Center, Texas Children's Hospital, Harris Health, and many other industries

