

NC STATE UNIVERSITY



EDWARD P. FITTS DEPARTMENT OF  
INDUSTRIAL AND SYSTEMS ENGINEERING



# FALL COMMENCEMENT CEREMONY

DECEMBER 19, 2018 | 2 PM  
BROOKS AVENUE CHURCH OF CHRIST  
700 BROOKS AVENUE | RALEIGH, NC 27607

*Have family and friends who couldn't attend? Watch  
the ceremony live at [go.ncsu.edu/ISEGraduation](https://go.ncsu.edu/ISEGraduation)*

## WELCOME

Dr. Kanton Reynolds  
Teaching Associate Professor and Director of Undergraduate Programs

## INTRODUCTION OF FACULTY AND STAFF

Dr. Julie Swann  
Edgar S. Woolard Distinguished Professor and Department Head

## COMMENCEMENT ADDRESS

Dr. Binil Starly  
Professor and 2018 C.A. Anderson Outstanding Faculty Award Winner

## AWARDING OF DIPLOMAS

Dr. Julie Swann  
Dr. Michael Kay  
Dr. Kanton Reynolds

*You are cordially invited to a reception in the Fellowship  
Hall at the conclusion of this program.*

## FACULTY

Mahmoud A. Ayoub	Timothy J. Horn	Osman Y. Ozaltin	Javad Taheri
Richard H. Bernhard	Julie S. Ivy	Richard G. Pearson	Reha Uzsoy
Karen B. Chen	Michael G. Kay	Kanton Reynolds	Hong Wan
Paul H. Cohen	Russell E. King	Stephen D. Roberts	Harvey West II
C. Thomas Culbreth	Yuan-Shin Lee	Christopher D. Rock	James R. Wilson
Jingyan Dong	Yunan Liu	Ezat T. Sanii	Richard A. Wysk
Shu-Cherng Fang	Jason C. Low	Sara Shashaani	Xu Xu
Xiaolei Fang	Louis Martin-Vega, Dean	Rohan A. Shirwaiker	Robert E. Young
Yahya Fathi	Maria E. Mayorga	Clarence L. Smith	
Ola L. A. Harrysson	Chang S. Nam	Binil Starly	
Thom J. Hodgson	Henry L. W. Nuttle	Julie L. Swann	

## STAFF

Debbie Allgood-Staton	Robert Lasson	Amy Roosje	Heather White
Steven Bigelow	Daniel Leonard	Linda Smith	Dawn Wilkins
Wendy Blue	Tim McGlothlin	Danita Taylor	Chet Wyrick
Gary Downey	Stephen McNierney	Nataliya Vanchosovych	
Jeffrey Hoyle	Mirtha Perazza	Mike Walsh	
Justin Lancaster	Christina Pucci	Karen Welton	

## DOCTOR OF PHILOSOPHY IN INDUSTRIAL ENGINEERING

### KATIE L. BASINGER

**Dissertation:** Mechanically Stimulating Tissue in vitro: A Case Study of Split Thickness Porcine Skin

**Advisors:** Dr. Richard Wysk and Dr. Ola Harrysson

### YIWEI HAN

**Dissertation:** High-Resolution Electrohydrodynamic (EHD) 3D Printing of Function Materials

**Advisor:** Dr. Jingyan Dong

### SHADI HASSANI GOODARZI

**Dissertation:** Modeling Ductal Carcinoma in Situ Management

**Advisor:** Dr. Julie Ivy

### PEDRO HUEBNER

**Dissertation:** 3D-Bioprinted Scaffold for Autograft Substitution in Osteochondral Plug Transfer Approaches: Design and Process Characterization

**Advisor:** Dr. Rohan Shirwaiker

### RACHEL MARIE TOWNSLEY

**Dissertation:** An Examination of Individual Sequential Behavior Modeling in the Context of Healthcare Simulation

**Advisor:** Dr. Maria Mayorga

### IMAN VASHEGHANI FARAHANI

**Dissertation:** Time Series Motifs in Practice

**Advisors:** Dr. Michael Kay and Dr. Russell King

### CAROLINE E. WEBSTER

**Dissertation:** Research in Support of the Design of a Hemiarthroplasty for Osteosarcoma of the Distal Radius in a Veterinary Model

**Advisors:** Dr. Ola Harrysson and Dr. Denis Marcellin

### MELISSA MAE WHITE

**Dissertation:** Biomechanical Implications of Duty Belt Use by Police Officers

**Advisors:** Dr. David Kaber and Dr. Xu Xu

## MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

### CHRISTOPHER JAMES KELLY

**Thesis:** Automatic Feature Based Inspection and Qualification for Additively Manufactured Parts with Critical Tolerances

**Advisors:** Dr. Richard Wysk and Dr. Ola Harrysson

### JAMES DANIEL SHIRLEY

**Thesis:** Effects of Dynamic Automation Function Allocations on Operator Situation Awareness and Cognitive Workload in UAV Control

**Advisors:** Dr. David Kaber

### GIMANTHA NAHIL PERERA

**Thesis:** Checklists in Healthcare: Operational Improvement of Standards using Safety Engineering (Project CHOISSE) - Early Phase Analysis and Results

**Advisor:** Dr. Julie Ivy

## MASTER OF INDUSTRIAL ENGINEERING

### YIMO HO

**Advisor:** Dr. Karen Chen

### KARTHIK MARNENI

**Advisor:** Dr. Michael G. Kay

### VALERIA SOTO MARQUEZ

**Advisor:** Dr. Michael G. Kay

### PEI YU HOU

**Advisor:** Dr. Xu Xu

### AKSHAY SHRIPAL NARADE

**Advisor:** Dr. Michael G. Kay

### RISHABH SUNDARESWARAN

**Advisor:** Dr. Dr. Yahya Fathi

### CARLOS LECA

**Advisor:** Dr. Michael G. Kay

### JUAN OREJEL OREJEL

**Advisor:** Dr. Yahya Fathi

### XIAOJUN ZHANG

**Advisor:** Dr. Michael G. Kay

### NEHA MAHADAS

**Advisor:** Dr. Yahya Fathi

### PRANAV PALLOD

**Advisor:** Dr. Yahya Fathi

## DOCTOR OF PHILOSOPHY IN OPERATIONS RESEARCH

### MARIA CATHERINE JANSEN

**Dissertation:** Mathematical Models for Influenza Vaccine Production and Distribution

**Advisors:** Dr. Osman Ozaltin

### XIUQI LI

**Dissertation:** Bayesian Classification and Change Point Detection for Functional Data

**Advisor:** Dr. Subhashis Ghoshal

## MASTER OF OPERATIONS RESEARCH

### SAMAN ASVADI

**Advisor:** Dr. Michael G. Kay

### NEHA PATANKAR

**Advisor:** Dr. Michael G. Kay

### SANKET JATIN SHETH

**Advisor:** Dr. Michael G. Kay

### SOHAM SANJAY JOSHI

**Advisor:** Dr. Michael G. Kay

### SWAPNIL PILLAI

**Advisor:** Dr. Michael G. Kay

### SHRADHA

**Advisor:** Dr. Michael G. Kay

## BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

TREVOR BRYANT

RODRIGO CABRERA

BRIAN CHEN

AJ COLE III

ADAM DORR

WILL DULEY

SHADIA SHATANA SAVINA GARRISON

NATHAN HILBRANDS

MATTHEW HUTMACHER

ROLLIN JENKINS

KURTIS KONRAD

SAMANTHA LABERTEW

TANYA LAGUNAS-M

MAHLON MATTHEWS

MALLORY MEISSNER

MICHELLE NACLERIO

RACHEL NAGLEY

SPAIN NIEMER

JESSICA NOLTING

LUKE OLIVER

MIKAYLA LYNNE SLOMSKI

OWEN SPANGLER

STEPHANIE STUGG

JIANAN TANG

MATTHEW WHITE

### UNDERGRADUATE DEGREE HONOR DESIGNATIONS

**CUM LAUDE** - GPA 3.25 - 3.499  
White Sash

**MAGNA CUM LAUDE** - GPA 3.5 - 3.749  
Silver Sash

**SUMMA CUM LAUDE** - GPA 3.75 +  
Gold Sash

*You are cordially invited to a reception in the Fellowship  
Hall at the conclusion of this program.*