

FALL COMMENCEMENT CEREMONY

EDWARD P. FITTS DEPARTMENT OF INDUSTRIAL AND SYSTEMS ENGINEERING

DECEMBER 19, 2019 | 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**

WELCOME

Dr. Kanton Reynolds

Teaching Associate Professor and Director of Undergraduate Programs

INTRODUCTION OF FACULTY AND STAFF

Dr. Julie Swann

A. Doug Allison Distinguished Professor and Department Head

COMMENCEMENT ADDRESS

Maria Mayorga

Professor of Personalized Medicine

AWARDING OF DIPLOMAS

Dr. Julie Swann

Dr. Yahya Fathi

Dr. Kanton Reynolds

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

FACULTY

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

STAFF

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

DOCTOR OF PHILOSOPHY IN INDUSTRIAL ENGINEERING

LENA A. ABU-EL-HAIJA

Dissertation: PRECiSE: PancREatic Cancer Prioritization and Screening

Evaluation Tool Advisor: Dr. Julie Ivy

ATIN ANGRISH

Dissertation: Search and Tracking of 3D Product Manufacturing Data

Using Deep Learning and Blockchain

Advisor: Dr. Binil Starly

BRADLEY K. ASHBAUGH Dissertation: Extending the Kingman General Arrival, General Service Queuing Approximation to Overhead Allocation and Service Pricing

Advisors: Dr. Michael Kay and Dr. Robert Handfield

ANKIT BANSAL

Dissertation: Coordinating Capacity Negotiations In The

Semiconductor Industry Advisor: Dr. Reha Uzsov

YULIN DENG

Dissertation: Influence of Automation Transparency on Driver Skill

Decay in Use of High-level Automated Driving Systems

Advisors: Dr. David Kaber and Dr. Jing Feng

ASHRAF AHMED ALI EL GAALY

Dissertation: Optimization Models for Melting Patterns in Powder Bed

Fusion Additive Manufacturing

Advisors: Dr. Christopher Rock and Dr. Timothy Horn

SHAN JIANG

Dissertation: Sub-one Ip Quasi-norm Minimization and Applications

Advisor: Dr. Shu-Cherng Fang

YAYUN JIN

Dissertation: Modeling and Analysis of the End-of-life Inventory for

Spare Parts

Advisors: Dr. Donald Warsing and Dr. Russell King

NA YOUNG KIM

Dissertation: Effective Connectivity Based ACT-R Modeling of Workload

Transition in Multitasking Advisors: Dr. Chang Nam

LOKESH KARTHIK NARAYANAN

Dissertation: Manufacturability considerations in Biofabrication – Functional

Mapping, Risk Assessment and Dielectric Impedance Spectroscopy-based Nondestructive Quality Evaluation

Advisor: Dr. Rohan Shirwaiker

SAEED SAFFARI

Dissertation: Set Covering Problem with Conflict Constraints

Advisor: Dr. Yahya Fathi

GERMAN ANDRES VELASQUEZ DIAZ

Dissertation: Inventory Prepositioning and Evacuation Planning for

Disaster Preparedness

Advisors: Dr. Maria Mayorga and Dr. Osman Ozaltin

MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

PARTH CHANSORIA

Thesis: Characterizing the effects of sterilization processes on the chemical, mechanical, printability and biocompatibility characteristics of

Advisor: Dr. Rohan Shirwaiker **MUJEEB TEMITOPE LAWAL**

Thesis: Modeling Complex Diseases in Patients with Sepsis

Advisor: Dr. Julie Ivy SYED NABEEL MEHDI

Thesis: Witness Box Protocol: Automatic Machine Identification and

Authentication in Smart Manufacturing Environments

Advisor: Dr. Binil Starly **RIDDHIMAN SHERLEKAR**

Thesis: Fog Computing Provisioned Data Distribution for Smart

Manufacturing: Design & Implementation Advisors: Dr. Paul H. Cohen and Dr. Binil Starly TREVOR L. THOMPSON

Thesis: Investigation of Dielectric Spectroscopy as an Enabling Tool for

Process Analytical Technology in 3D Biofabrication

Advisor: Dr. Binil Starly

MOUDA TUNG

Thesis: In-situ Electron Imaging for the Electron Beam Melting Process

Advisor: Dr. Tim Horn

REBECCA L. WIDMAYER

Thesis: Emergency Medicine Patient Lift Training Simulation in Virtual Reality

Advisor: Dr. Karen Chen

JIE ZHAI

Thesis: Investigation of Computational Reduction Strategies for Markov

Decision Processes Advisor: Dr. Russell King

MASTER OF INDUSTRIAL ENGINEERING

SHAHID AKBAR

Advisor: Dr. Michael G. Kay

SHARISE EBERHARD

Advisor: Dr. Karen Chen.

MARCO-ANTONIO ALEJANDRO ESPINOZA JARA

Advisor: Dr. Michael G. Kay

SURABHI SUDHIR LALE

Advisor: Dr. Michael G. Kay

MOHAMMED FAISAL SAIZAD MITHAWALA

Advisor: Dr. Michael G. Kay

NITHISH PADIPURAVILLA SAJI

Advisor: Dr. Michael G. Kay

KIRTIKUMAR GORDHANBHAI PADSALA

Advisor: Dr. Michael G. Kay

VARUN PRAKASH

Advisor: Dr. Michael G. Kay

MEET BHARAT RACHHADIA

Advisor: Dr. Michael G. Kay

Advisor: Dr. Rohan Shirwaiker

KARL G. SCHUCHARD

Advisor: Dr. Michael G. Kay

VARUN DEEPAK VAN

Advisor: Dr. Michael G. Kay

ALLY E. SCHUENEMAN

MIKAYLA L. SLOMSKI

Advisor: Dr. Michael G. Kay

Advisor: Dr. Michael G. Kav **RISHI BIMAL THACKER**

DOCTOR OF PHILOSOPHY IN OPERATIONS RESEARCH

AZADEH BAHMANINEZHAD

Dissertation: Exact and Heuristic Approaches for Solving the Multi-

Vehicle Advance Request Dial-a-Ride Problem

Advisor: Dr. John Baugh

KYLE A. HOVEY

Dissertation: Analysis and Control of Service Systems with Non-

Stationary Demand Advisor: Dr. Yunan Liu

ROBERT M. LOCKE

Dissertation: Deterministic End-of-Life Spare Parts Policies

Advisors: Dr. Russell E. King and Dr. Thom J. Hodgson

NEHA PATANKAR

Dissertation: Addressing Uncertainty in Energy System Optimization Models

Over a Long Planning Horizon Advisor: Dr. Joseph DeCarolis

HANG SUN

Dissertation: Sourcing Risk Detection and Prediction with Online Public

Data: An Application of Machine Learning Techniques in Supply Chain Risk

Management

Advisor: Dr. Robert Handfield

MASTER OF OPERATIONS RESEARCH

JEREMY ADDISON

Advisor: Dr. George List

PEDRO HENRIQUE CHAGAS ANCHIETA

Advisor: Dr. Ranji S. Ranjithan

BENJAMIN CRAVER

Advisor: Dr. Michael G. Kay

ZHEMING GAO

Advisor: Dr. Negash G. Medhin

MUHAMMAD ALI HAIDER

Advisor: Dr. Michael G. Kay

MD HAFIZUL ISLAM

Advisor: Dr. Michael G. Kay

Advisor: Dr. Michael G. Kay

YUVARAJ VIVEKANANDAN

Advisor: Dr. Michael G. Kay

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

CLAUDIA ESPINO ALVARADO **YASH MATHRADAS**

ALEXANDER BALABANOV ETHAN MILLER

KEVIN CHURCH MATTHEW NEGA

JASMINE COOPER DAVID NEWKIRK

ASHTON DANIEL NICOLE NIEMER

PEDRO FERNANDEZ **MATTHEW PARKER**

JACOB GREEN JOHN SCHELL

REBECCA GRIFFIN SAMUEL STUMP

JULIA HANSEN ALBERTO SUCRE

ZACK HOEKSEL CONNER WALKER

ALEX JANUS SAMANTHA WINTERROWD

THU LE SAMUEL YOUNG

STEVEN LEPORE

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

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