NORTH CAROLINA STATE UNIVERSITY

SPRING   DIPLOMA   CEREMONY

DEPARTMENT of COMPUTER SCIENCE

Thursday, May 4, 2023

James T. Valvano Arena at William Neal Reynolds Coliseum

12:00 P.M.

Welcome

Welcome to the Spring diploma ceremony of the Department of Computer Science at North Carolina State University, Raleigh. The department was formed in 1967 and is one of the oldest in the nation. The department currently has over 2,175 students. We are among the top in the nation in the number of awarded bachelor's, master's, and doctoral degrees in computer science, and we lead in both teaching and research accomplishments. We continue our tradition of excellence by proudly honoring a new group of graduates.

The ceremony today recognizes the academic achievements of the Spring 2023 graduating students receiving bachelor's, master's, or doctoral degrees in the field of computer science. It is a very special, auspicious, and exciting day for all of us -- students, their families and friends, and our faculty and staff, that culminates years of hard work and dedication for all concerned. Students graduating today bring the number of our alumni to over 10,900.

On behalf of the faculty and staff, I would like to thank you for coming, and to extend our warmest congratulations to the students, their families, and their friends.

With best wishes,

Gregg Rothermel
Department Head

SPRING DIPLOMA CEREMONY
James T. Valvano Arena at William Neal Reynolds Coliseum
Thursday, May 4, 2023
12:00 P.M.

Pre-Processional Comments………..…………………………………………………Ken Tate
Director of Engagement and External Relations

Processional…………………………………………………………..Pomp and Circumstance
Sir Edward Elgar

Welcome…………………………………………………………………Gregg Rothermel, Ph.D.
Department Head

Speaker ..…………………………………………………………………………… Jerry Tillman
Vice President of IBM Cloud Platform Services

Introduction of Honor Students……………………….………Barbara Jasmine Adams, Ph.D.
Director of Undergraduate Advising

Presentation of Degrees …………………………………………………George Rouskas, Ph.D.
Director of Graduate Programs

Sarah Heckman, Ph.D.
Director of Undergraduate Programs

Gregg Rothermel, Ph.D.
Department Head

Recessional……………………………………………………………Triumphal March From Aida
Giuseppe Verdi

GUEST SPEAKER

Jerry Tillman, Vice President
IBM Cloud Platform Services

Jerry Tillman is an experienced Global Services leader with a demonstrated history of working in the Information Technology and Services industry. Jerry has developed several skills throughout his career, most notable in Cloud, Development Storage, Customer Relationship Management (CRM), DevOps, Site Reliability Engineering, and Software-as-a-Service (SaaS).

As Vice President of IBM's Cloud Platform, Jerry is the head of Engineering for the Platform-as-a-Service (PaaS) portfolio. He leads a global team responsible for the revenue generating service offerings on the platform. His responsibilities include the business strategy, development, delivery and service availability of the PaaS offerings across Dev & Data Services worldwide.

In addition to his current responsibilities, Jerry also sits on IBM's Site Reliability Profession Global Governance Board. "SRE@IBM" is a cross business unit endeavor to jointly define job roles, certification requirements, create learning plans and training material for the SHE methodology. The collaborative goals are to share best practices as well as the experiences of practicing Site Reliability Engineering across multiple areas ranging from Cloud and Cognitive Software.

A proud Wolfpack Alumnus, Jerry earned his Bachelor's degree in Computer Science, with a minor in Mathematics, from N.C. State in 2003.

In his spare time, he has run several half and full marathons when he's not spending time with his family.

COMPUTER SCIENCE DEGREES

Doctor of Philosophy

A Doctor of Philosophy (Ph.D.) is the highest academic degree an individual can earn. In addition to completing coursework specified by the advisory committee (54 or more credits beyond the master of science), Ph.D. students must demonstrate breadth of knowledge, pass a series of examinations, and defend a substantial and original scholarly dissertation.

Master of Science

The Master of Science (M.S.) is a traditional research-oriented degree. Master of Science graduates have successfully completed advanced coursework in computer science. Students with thesis titles below their name have written and defended a thesis summarizing their supervised research.

Master of Science in Computer Networking

Master of Science in Computer Networking (MSCN) graduates have successfully completed advanced coursework in computer networking. Students with thesis titles below their name have written and defended a thesis summarizing their supervised research.

Master of Computer Science

The Master of Computer Science (MCS) program is a professional degree program designed primarily to meet the needs of industry. Master of Computer Science graduates have successfully completed advanced coursework in computer science.

Bachelor of Science

The Bachelor of Science (B.S.) degree is conferred upon students who have successfully completed a program of study including both general coursework in the humanities, social sciences, mathematics, and physical sciences as well as specialized courses in computer science.

DOCTOR of PHILOSOPHY

KORNELIA BASTIAN
(co-major with Operations Research)

Dissertation: *Summarizing and Visualizing NASCAR Driver-Pit Crew Communication for Post-Race Analysis*

Committee Chair: Christopher Healey, Ph.D.

Kornelia Bastian grew up in Warsaw, Poland and began her studies there, but following an exchange to the UK, she obtained an M.S. in Automotive Engineering from Coventry University in 2009 and an M.S. in Management Science and Operations Research from the University of Warwick in 2011. Following a number of years working as a Data Scientist, Kornelia moved to North Carolina in 2016 to pursue her Ph.D. at N.C. State, which she completed in 2023.

Kornelia's research focused on text analytics, using NLP, ML, deep learning, and neural network techniques, together with visualization in the field of motorsports in order to build new state-of-the-art strategy and race analysis software.

Since 2022, Kornelia has been working as a lead Data Scientist at Truist Bank in Charlotte, NC, where she uses AI and ML to support all teams across the bank to automate and support the decision-making process. She also acts as an area expert for NLP.

DOCTOR of PHILOSOPHY

KELVIN BOLIN CHENG

Dissertation: *Towards Robust, Generalizable and Explainable Stereo Matching for Autonomous Driving*

Committee Chair: Christopher Healey, Ph.D.

Kelvin Bolin Cheng earned his B.S. degree and M.S. degree in Computing Science from Simon Fraser University, where he gained a strong foundation in various topics in Computer Science.

In 2019, Kelvin joined the Ph.D. program in Computer Science at N.C. State, with a focus on computer vision under the supervision of Dr. Christopher Healey. During his Ph.D. studies, he tackled various 3D computer vision problems such as stereo depth estimation and object detection. Kelvin's research has been published in prestigious computer science conferences, including the Conference on Neural Information Processing Systems and the International Conference on Computer Vision.

Upon completing his Ph.D. in Computer Science, Kelvin joined Rivian as a Senior Machine Learning Engineer, where he applies his skills to develop and implement machine learning models for autonomous vehicles.

Outside of work, Kelvin enjoys gardening, traveling, and music.

DOCTOR of PHILOSOPHY

ABIDA HAQUE

Dissertation: *New Approaches for Threshold and Traceable Ring Signatures*

Committee Chair: Alessandra Scafuro, Ph.D.

Abida Haque grew up in Houston, TX. Before joining N.C. State in 2017, she majored in Mathematical Sciences at Carnegie Mellon University and received a M.S. degree in Computer Science from Georgia Institute of Technology. She was also a Navy Nuclear Power School Instructor.

Her research interests focus on cryptography, specifically managing user anonymity, decentralizing trust, and identifying gaps in current cryptography schemes. Her work includes improving security definitions for ring and group signatures, as well as working on multi-party computation.

Outside of research and teaching, her hobbies include juggling, weightlifting, and walking.

DOCTOR of PHILOSOPHY

AMAN KUMAR
(co-major with Industrial Engineering)

Dissertation: *Information Extraction and Knowledge Graph Development for Manufacturing Science Domain Using Natural Language Processing*

Co-Committee Chairs: Collin Lynch, Ph.D., Binil Starly, Ph.D., and Rohan Shirwaiker, Ph.D.

Aman Kumar was born in Varanasi, India and raised in New Delhi. He obtained his Bachelor of Technology in Mechanical Engineering from JSS Academy of Technical Education in Noida, India in 2016. He worked in research roles at Indian Institute of Technology in New Delhi until 2019. He moved to Raleigh, NC in 2019 and joined the Edward P. Fitts Department of Industrial and Systems Engineering at N.C. State to pursue a Ph.D. in Industrial Engineering. He then joined the co-major Ph.D. in Computer Science and an en-route Master in Industrial Engineering in 2021.

His research focuses on large-scale data acquisition and analysis to perform information extraction and development of structured representation of information through knowledge graphs for the manufacturing domain. His work also includes the use of natural language processing techniques applied on historical research text for materials prediction.

Upon completion of his Ph.D., he moved to San Jose, California and started working as a NLP/ML Research Scientist at Hitachi America Ltd. His research is directly applicable to his current work on development of generative large language models for the Industrial domain and exploring domain-specific NLP applications.

In his free time, he likes to explore gadgets, travel, and try different cuisines.

DOCTOR of PHILOSOPHY

REZVAN MAHDAVI HEZAVEH

Dissertation: *A Comprehensive Model of Software Configuration*

Committee Chair: Laurie Williams, Ph.D.

Rezvan grew up in Karaj, Iran. She received her B.S. degree in Software Engineering from Karaj Islamic Azad University in 2010 and her M.S. degree in Software Engineering from Sharif University of Technology in 2014. After working as a Software Engineer for almost 2.5 years, she began her Ph.D. in Computer Science at N.C. State, under the supervision of Dr. Laurie Williams in 2017.

Her research focused on software configuration management. During her Ph.D. studies, Rezvan identified practices, heuristics, and metrics to help developers manage software configuration in their code base. She also proposed a model of software configuration to assist researchers in designing their research on software configuration management.

Upon completing her Ph.D., Rezvan joined Google as a Software Engineer.

Outside of work, she enjoys hiking, photography, and watching documentaries.

DOCTOR of PHILOSOPHY

SHAILAJA MALLICK

Dissertation: *Spread of Opinion in a Social Network: Targeted Advertising in Social Networks & Visualizing Product Feature Effects*

Co-Committee Chairs: Christopher Healey, Ph.D., and
Do Young Eun, Ph.D.

Shailaja Mallick is from Odisha, India, and graduated with a Bachelor of Technology degree in Computer Science and Engineering from Veer Surendra Sai University of Technology in 2011. She then joined Tata Consultancy Services in India as an Assistant Systems Engineer. Later she left the job of Systems Engineer to pursue her M.S. degree in 2013.

Following her M.S. degree from Chalmers University of Technology in Sweden, she joined the Computer Science Department at N.C. State to pursue her Ph.D. in Computer Science in 2017.

Her research interests include applied machine learning, natural language processing, epidemiological models and network science. She intends to pursue a career in industry.

Outside of work, she enjoys cooking, traveling, and spending time with her dog.

DOCTOR of PHILOSOPHY

COLIN POTTS

Dissertation: *Interactive Data Analysis for Experts: Tools, Techniques, and Assessments*

Committee Chair: Arnav Jhala, Ph.D.

Colin M. Potts started his research career in undergraduate studies under Dr. Kurt Krebsbach at Lawrence University in Appleton, WI. He studied automated planning and search algorithms in the context of real-time control systems before graduating with a B.A. in Mathematics and a B.A. in Math-Computer Science.

In 2013 he joined the Ph.D. program at N.C. State. From 2014 to 2016 he worked with the Liquid Narrative Group as a Research Assistant focusing on multimedia narrative discourse planning, under the supervision of Dr. R. Michael Young. He transitioned in 2017 to working with the Laboratory for Analytic Sciences on natural language processing and multimedia reporting for semi-structured text datasets.

From 2020 to 2022, Colin has worked with Dr. Arnav Jhala on interactive natural language processing systems for knowledge discovery and multimedia narrative generation, particularly with the North Carolina Department of Transportation.

DOCTOR of PHILOSOPHY

PREYA SHABRINA

Dissertation: *Exploring Strategy Learning and Data-Driven Subgoal Interventions to Aid Current and Future Problem Solving*

Committee Chair: Tiffany Barnes, Ph.D.

Preya Shabrina received her B.S. degree in Computer Science and Engineering from the Bangladesh University of Engineering and Technology in 2017. Then she worked as a Software Engineer at a startup in Bangladesh. She moved to Raleigh, NC in 2018 to pursue her graduate studies in Computer Science at N.C. State. She earned her M.S degree in Computer Science in 2022, while working towards her Ph.D.

Her research focuses on using data mining and artificial intelligence methods to solve real-world problems in the field of education, such as exploring techniques to generate and evaluate interventions integrated within educational tools to improve learners' learning experience and outcomes.

Upon completing her Ph.D., she plans to move to California and work as a Research Scientist at Meta.

In her free time, she likes reading and traveling.

DOCTOR of PHILOSOPHY

WENGRAN (EMMA) WANG

Dissertation: *Automated, Personalized Examples to Support Creative, Open-Ended Programming*

Committee Chair: Thomas Price, Ph.D.

Wengran received her B.S. degree in Environmental Science from Zhejiang University in 2016. She then earned her M.S. degree in Statistics from N.C. State in 2018. She started her Ph.D. in Computer Science in 2019, working in the HINTS Lab, under the supervision of Dr. Thomas Price.

Her research focus is on providing data-driven, automated feedback for programming practice assignments, and investigating the effect of planning and example-based support for novices' creative open-ended programming.

Upon completion of her Ph.D., Wengran began working as a Machine Learning Engineer at Apple in Seattle.

Besides her research, Wengran enjoys reading, growing plants, and spending time with her family.

MASTER of SCIENCE
THESIS

Pankaj Attri
Detecting Cough in Audio Recordings with Out-of-Distribution (OOD) Data Detection Techniques
Chair: Edgar Lobaton, Ph.D.

Yuchen Liang
AI Empowered Program Performance Analysis
Chair: Xu Liu, Ph.D.

Jinam Bipin Shah
Author Name Disambiguation in Academic Records
Chair: Christopher Healey, Ph.D.

MASTER of SCIENCE
NON-THESIS

Isabella Gransbury
Sanford Samuel Hodges
Zari McFadden
Kara Schatz
Tanner Verber

MASTER of SCIENCE in
COMPUTER NETWORKING
NON-THESIS

Aileen M. Jacob
Nimalan Manimaran

MASTER of COMPUTER SCIENCE

Abhijeet Abhijeet
Meghaj Agrawal
Vasu Agrawal
Varsha Rao Akinepalli
Muhammad Jalal Alahmadi
Sidhant Arora
Gowtham Sathyan Arulselvan
Roshni Balasubramanian
Lalit Laxminarayan Bangad
Shubham Bansal
Harsh Vijay Bathija
Naman Bhagat
Yash Gaurang Bhansali
Tirth Janak Bhatt
Dhanush Binoy
Ashritha Bommagani
Swimitha Reddy Buchannolla
AJ Bulthuis
Kevin I-Fun Chao
Apoorva Chauhan
Qiuyu Chen
Rachel Chen
Selena Chen
Uzair Asif Chhapra
Vineet Vimal Chheda
Vraj Sanjay Chokshi
Hrushabh Chouhan
Kehua Cong
Tianyi Cong
Sri Pallavi Damuluri
Ashwin Das
Arnab Datta
Vinit Rajul Desai
Yashvi Desai
Pratik Rajesh Devnani
Suyog Shekhar Dharmadhikari
Connor James Dolan
Divyang Doshi
Nolan Dowdle
Liwen Du

Shubham Dua
Gage Fringer
Anant Gadodia
Akhil Gangarpu Sudhakar
Kai Gao
Arun Gaonkar
Priyam Garg
Varun Garg
Mithil Ghinaiya
Manasi Sanjay Ghosalkar
Uma Gnanasundaram
Shakthi Nandana Govindan
Max Groover
Minghao Guo
Zonghan Guowang
Divyank Gupta
Muskan Gupta
Siddhant Gupta
Brian Thomas Hambleton
Leo Hsiang
Chao-Ting Hung
Ratan Immidisetti
Aswin Itha
Kiran Asher Jacob
Aditya Ravikant Jadhav
Krish D. Jain
Moksh Rajesh Jain
Rithik Jain
Sudharsan Janardhanan
Siddarth Jayakumar
Yuyang Jiang
Parth Sarang Jinturkar
Kimberly Jones
Atharva Joshi
Arnav Julka
Karan Suresh Kajani
Urvashi Kar
Shreya Someswar Karra
Bharath Katabathuni
Sajal Kaushik

MASTER of COMPUTER SCIENCE *(continued)*

Aditya Kailas Khadse
Kriti Khullar
Ashley Nicole King
Jagdish Dinesh Kini
Rucha Bhushan Kolekar
Vijaya Durga Kona
Rachana Kondabala
Natalie Kraft
Dev Kumar
Manoj Thiraviam Kumar
Niraj Lavani
Kan-No Lee
Dong Li
Joshua Lin
Rundi Lin
Yu-Hsuan Lo
Zhiyuan Ma
Jyothi Sumer Goud Maduru
Nikita Murlidhar Mahajan
Abir Majumder
Srujana Marne Shiva Rao
Matthew Martin
Nikhil Mehra
Dev Gaurangbhai Mehta
Ryan Pierce Mertz
Yash Mishra
Prit Modi
Rohit Mohan
Amr Moussa
Ankur Mundra
Rakesh Muppala
Vignesh Muthukumar
Sai Sree Nalluru
Sahil Rajesh Nande
Chirrag Nangia
Ajeeth Adithya Narayan
Sairaj Suhas Nemmaniwar
Diksha Paliwal
Anirudh Pande
Saksham Shailesh Pandey

Het Kiritkumar Patel
Rishi Patel
Urmi Kashyap Pathak
Vaishnavi Jayavant Patil
Shivam Vivek Pednekar
Ruth Perry
Vedang Sudhir Pingle
Aakash Satish Poliyath
Srujan Ponnur
Rohan Jayant Prabhune
Akshaya Raghuthaman
Radhika Bangalore Raman
Ashrita Ramaswamy
Srivatsan Ramesh
Anisha Raghavendra Rao
Brooke Raschke @~
Atharva Yashwant Risbud
Renji Joseph Sabu
Rithvik Sallaram
Sai Venkata Vinay Kumar Samudrala
Bella Samuelsson
Akash Mukesh Sanghani
Arjun Sarihyan
Andy Sauerbrei
Kasimir Schulz
Harikrishna Selvaraj
Prashan Sengo
Harshil Shah
Jainam Ketan Shah
Jay Rajiv Shah
Kaivan Shah
Pathey Vipulbhai Shah
Rohan Jigarbhai Shah
Li-Yu Shan
Ashwith Ramesh Shetty
Manali Shirsekar @~
Shubham Shubham
Rahul Shukla
Aayush Indrapratap Singh
Rohan Sinha

MASTER of COMPUTER SCIENCE *(continued)*

Connor Smith
Alex Snezhko
Matthew John Sohacki
Yuanming Song
Andrew Bryan Sonnier
Zunaid Hasan Sorathiya
Arvind Srinivas Subramanian
Nitish Pravin Talekar
Rupin Talwar
Ameya Tathavadkar
Aditya Dev Tewari
Ganesh Thanu
Parth Shailesh Thosani
Subodh Thota
Ritwik Tiwari
Radhika Jitendra Toravi
Neelkanth Tripathi
Abhishek Arvindkumar Upadhyay
Joseph Antony Vaikath

Krishna Saurabh Vankadaru
Pradyumna Vemuri
Sai Kumar Goud Vengali
Subramanian Venkataraman
Nathan Vercaemert
Shruti Verma
Kunwar Vidhan
Prateek Wadhwani
Amey Shrikrishna Waghmode
Kelly Wang
WeiRui Wang
Hugh Wright
Tyrone Wu
Vincent Jian Xin
Yishaka Yadav
Jaicheng Yang
Zhijin Yang
Fu-Jen Yen
Gaolin Zhang

Master of Computer Science Special Notations Key

@ - Computer Science Student Ambassador.
~ - Diploma Ceremony Marshal.

BACHELOR of SCIENCE

Allison Nicole Abel ***
Ifeoluwa William Aderemi *
Claire Madison Aguiar ***Γ
Noah Gabriel Alexander **Σ
Cade Allred ***Σ
Christian Edward Andersen ***
Emily Marie Applegate **
Auma Asiyo **
Cameron Lane Baker **
Ananya Balakkari *
Logan Marie Baldwin **
Henry Vance Barnette, IV *Γ
Brandon Barrentine *
Hrishi Batta ***@
Jacob L. Beasley **
Shreyas Bellary **+
Alex Jeffery Bernard **
Brody Bond *σ
Alexander James Boots *
Michael Borasy *
Brandon Ray Braswell **Σ
Joseph Bream ***
Brian James Brooks *
Nicholas Bruinsma
Jonathan Michael Buck ***
Kevin Bui ***
Elstan Bultonsheen σ
Pavan Bykampadi **
Alexandra Nicole Cail *
Dominic Matthew Carelli
Joel Chacko **σ
Karthik Chandran **Γ
Dylan Atul Changela **
Derrick Chen
Thomas Chen ***
Godsend B. Cheung ***
Kevin Childs **Σ
Manasa Sai Chinta ***
John Cho ***
Alex Nguyen Chu **+
Bennett Wesley Clapp **

Cedric Clyburn
Chace Allen Coltrane **Σ
James Anthony Conway
John Michael Cornelison
Michael William Costello *Σ
Aditi Debnath ***
Smit Shiban Dedhia ***
Mathew Lawrence Deel ***
Colby John Dennis ***
Nisha N. Deshpande *
Nikhil Dixit *
Siddhant D. Doshi ***
Mitchell Dunning **Γ
Josiah Edwards *
David Andres Elizondo-Alvarez ***
Seth Michael Emory *
Tyler Steven Enck ***
Micah James Erb ***Γ
Luis Manuel Fajardo
Andrew Farkas ***
William J Flathmann *
Juan Esteban Franco Pinilla **
Geoffrey Fylak **
Jose Angel Garcia-Gomez **
Jonah Ghebremichael ***σ
Darren Kainoa Stephen Gonsalves
Casey James Greene *
Alon Meir Greyber ***+
Simon Durant Griggs ***Σ
Ouafae El Haddouchi
Anna Katharina Hagedorn *σ
Guorui Hai ***
Jada Simone Hampton**
Isaac Allen Handy *Σ
Alexander Wesley Hardin **Σ
Nicholas Charles Hargrove ***
Avery Hawkins
Haley Elizabeth Heath **
Brice Alexander Helms
Kayna Lexiane Henningham *
Raven Hérail **Σ

Ashten Grant Herr ***
Katarina Noelle Hicks
Noah Jacob Homan *
Jing Huang ***
Isaac Michael Hughes **
Brian Huy Huynh **
Minho Hyun *
Cameron Thomas Incze ***σ
Anagha Jandhyala ***
Brayden Joseph Johnson ***Σ
Kacey Cejai Johnson
Joel Anthony Johnson Jr
Ryan Matthew Jones ***+
Seungchul Jun **
Rishabh Sandeep Karwa **
Savanna Louise Kashnig ***
Saad Ullah Khan ***
Hans Khatri *+
Mohhid Salman Kidwai ***
Daniel Jo Kim ***Γ
Minsung Kim **@
Aditya Konidena ***
Benjamin J. Kurian *
Jack Raymond Lanois ***
Brandon Jason Le
Ryan William Lee
Trevor Michael Leibert ***
Benjamin Scott Lewis **
Matthew Lewis **
Yilong Li *
Xiaochun Liang *
Keagan Celeste Lindsey **@
Benson Liu **
Charles Weston Lomax **Γ
Andrew Ivan Lopez **
Paul Edward MacNichol *
Elizabeth Grace Madren ***
Harini Mahesh ***
Kyle Laurence Roberto Manahan
Shruti Marota ***@
Osama Adil A. Mashabi **

Aidan McCarthy ***+
Blake Thomas McKinley ***
Joel Patrick McKinney ***
Austin James McNeill ***
Mario Alberto Medel Penaloza *
Utkrisht Mendiratta σ
Jonathan David Miner ***
Komal Misra
Alexander Elias Mitchell *
Rene Montes Haro
Niall Patrick Moncrief Mullane ***+
Tristan Chance Mullins ***
Chaitanya Muragundi
Akhilesh Saivenkat Neeruganti ***
Ryosuke Noma *
Simon Joseph Oliveros ***
Zhicheng Pan **
Aashutosh Ram Parajuli ***
Maya Patel ***
Pradeep Arunkumar Patil ***
Katelyn Destiny Paulsen ***Γ
Meghana Penaganti ***
Henry Edward Pinyan ***+
Pujitha Polimetla ***
Zachary Lynn Polleck ***
John Randle ***σ
Rohan S. Rao ***
Sneha Karthik Rao ***
David Root ***
Ketan Kumar Ryan **
Renan A. Santos *
Micah Sargent ***
Gabriel Lewis Sarver
Colin Leigh Scanlon ***+
Arthur Schell ***
Elliott Breck Schultz ***Γ
Yuval Sherman ***
Cameron B. Siddle
Biniyam Tedla Sima *
Shagunpreet Singh σ
Jerin Austin Smith ***+

BACHELOR of SCIENCE *(continued)*

Helen Menbere Solomon
Aneesh Sreedhara **
Chitra Srinivasan **
Mingyu Sun ***+@~
Zane Andrew Taylor ***
Eliza Thornton ***Γ
Tiffany Tien Truong **
Prathik Velagapudi ***Σ
James Jedidiah Waldon *
Haobai Wang ***
Qichen Wang *
Andrew Watson ***

Gabriel Porter Weaver ***
Nickolas Holden Wiblitzhouser *
Jared Lee Willey
David Michael Williamson
Pepper Wingerd-Felan ***Σ@
Samuel Lankford Wood ***Σ
Michael Kaito Woods *
Jakob Riley Woodard *
Lingjia Xu
Dion Fredrick Ybanez **
Shaolong Zhou
Christian Ziller *

Bachelor of Science Special Notations Key

*** - Summa cum laude (with highest honor), 3.75—4.0 GPA, gold sash.
** - Magna cum laude (with high honor), 3.5 – 3.74 GPA, silver sash.
* - Cum laude (with honor), 3.25 – 3.499 GPA, white sash.
Γ - Bachelor of Science in CSC with Game Development Concentration.
Σ - Bachelor of Science in CSC with Cybersecurity Concentration.
+ - Co-majors (graduating with one or more degrees outside of CSC).
σ - Bachelor of Science in CSC with Security Track.
@ - Computer Science Student Ambassador.
~ - Diploma Ceremony Marshal.

UNDERGRADUATE AWARDS

Computer Science Senior Award for Scholarly Achievement
Elliott Breck Schultz

Computer Science Senior Award for Citizenship and Service
Kevin Childs

Computer Science Senior Award for Humanities
Jerin Austin Smith

Computer Science Senior Award for Leadership
Mingyu Sun

CSC Department Faculty Senior Scholar
Claire Davis

Computer Science Honors Program

Recipients of the Bachelor of Science in Computer Science with Honors have maintained a minimum GPA of 3.5 while completing a challenging program of computer science undergraduate study, including an honors thesis with a supervising professor.

Jacob Beasley
Game2Learn Curricula Repository
Honors Advisor: Veronica Cateté, Ph.D.

Alexander James Boots
Interactive Generative Methods
Honors Advisor: Tiffany Barnes, Ph.D.

Manasa Sai Chinta
Human Perception and Storyline
Honors Advisor: Arnav Jhala, Ph.D.

Computer Science Honors Program   *(continued)*

Guorui Hai
Approximating the Traveling Salesperson Problem by Hybridizing Grey Wolf Optimizer with 3-Opt
Honors Advisor: Steffen Heber, Ph.D.

Minsung Kim
Rosie Pattern Language
Honors Advisor: Jamie Jennings, Ph.D.

Keagan Celeste Lindsey
User Experience for Educational Notebook PLatform
Honors Advisor: Christopher Parnin, Ph.D.

Benjamin Scott Lewis
Ottery: Secure Drop-off and Pickup
Honors Advisor: Lina Battestilli, Ph.D.

Paul Edward MacNichol
Optimizing a Parsing Expression Grammar DSL Using Super Instructions
Honors Advisor: Jamie Jennings, Ph.D.

Shruti Marota
Security Education Portal Projects
Honors Advisor: Laurie Williams, Ph.D.

Niall Patrick Moncrief Mullane
3D Voronoi Diagrams Research
Honors Advisor: Donald Sheehy, Ph.D.

Tristan Chance Mullins
Loop Unrolling and Related Optimizations for a Pattern Matching Virtual Machine
Honors Advisor: Jamie Jennings, Ph.D.

Rohan S. Rao
Snap Interface Development
Honors Advisors: Veronica Cateté, Ph.D. and Tiffany Barnes, Ph.D.

Mingyu Sun
CONCERT: Coordinating Educational Interactions for Student Engagement
Honors Advisors: Tiffany Barnes, Ph.D. and Collin Lynch, Ph.D.

Park Scholars

A four year scholarship covering tuition, fees, board, books, supplies, travel, and personal expenses.

Anagha Jandhyala

Benjamin Franklin Scholars

The Benjamin Franklin Scholars program allows students to simultaneously pursue bachelor's degrees in both engineering and the humanities or social sciences. The program provides students with broad training and equips them with unique skills to solve complex problems.

Jonathan Michael Buck
Alon Meir Greyber
Hans Khatri
Aidan McCarthy
Jerin Austin Smith

CyberCorps®: Scholarship for Service

The CyberCorps®: Scholarship for Service program is a two-year scholarship that covers tuition, fees, supplies, and provides a stipend. Students are expected to complete cybersecurity-focused coursework. For each year of scholarship, students must complete one year of employment in the federal, state, local, or tribal government agency. The Scholarship for Service is funded by the National Science Foundation Grant #1946607.

Pepper Wingerd-Felan

University Honors Program

In order to be recognized as a University Honors Program graduate, students must complete a minimum of 12 credits of honors seminars, complete a six-credit "Capstone Experience", and maintain a cumulative GPA of 3.25 or higher.

Geoffrey Fylak
Harini Mahesh
Henry Edward Pinyan

University Scholars Program

The University Scholars Program encourages students to excel academically in their majors while receiving a B.S. degree. The program requires individuals to complete a minimum of 21 hours of honors coursework while maintaining a "B" average, and graduating with an overall GPA of at least a 3.25.

Jose Angel Garcia-Gomez
Elizabeth Grace Madren
Maya Patel
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Sophia Laciano, *junior*
Annie Lowman, *junior*
Brantley Morgan, *senior*

PHOTOGRAPHY / VIDEOGRAPHY

Photo Specialties, a professional photographer, will take each graduate's picture as they are handed the diploma. A free color proof will be sent to each graduate's current mailing address, including a password for online viewing. There is no obligation to purchase prints.   To receive email notification when photos are online, please visit www.photospecialties.com to pre-register. If a proof is not received within a week of the ceremony, please contact info@photospecialties.com or call 1-800-722-7033.

For the benefit of relatives and friends who may not be able to attend the event in person, we are pleased to announce that the event will be available online via **live video streaming at http://go.ncsu.edu/csc-diploma**.   Firefox, Internet Explorer, and Safari are recommended for viewing the live streaming of the ceremony.

The Department of Computer Science thanks

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support benefits the students, faculty,
and staff of the department.**

**Our sponsors join us in congratulating the
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