

CSE QUBITS

Computer Science and Engineering Newsletter

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Greetings from the Chair

I hope you all are doing well during these unprecedented times. As we begin to transition back to campus activity this month we will be taking precautionary measures, such as social distancing, routinely cleaning areas, reduced class sizes by 50%, etc. to ensure the safety of our staff, students, and faculty. It's been several months since the last time we saw you, on the behalf of myself, the staff, and faculty; welcome back!



As we continue to grow, we now have 35 faculty, 4 staff members, over 1,300 undergraduate students, 185 master students, and 100 Ph.D. students. I would like to start off by welcoming our newest faculty and staff members to the CSE team. We have two new faculty, Associate Professor, Dr. Serdar Bozdog and Assistant Professor, Dr. Cihan Tunc and one new staff member, Undergrad Administrative Specialist, Marla Smith. In addition, Visiting Research Associate Professor, Sanjukta Bhowmick has become a permanent member of our faculty as an Associate Professor.

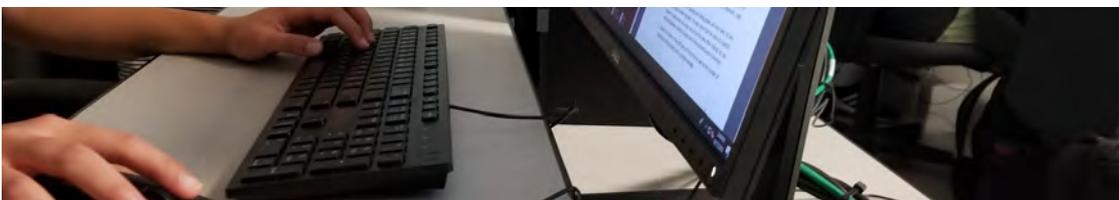
Dr. Joseph Helsing and Dr. Armin Mikler have both resigned and will not be returning Fall 2020, please be sure to email them and wish them luck on their future endeavors. They have both made excellent contributions to our department. It has been a great 9 years as the Chair of the Computer Science and Engineering Department, I look forward to serving you in other ways in my new role as Special Assistant to the Dean for Enrollment Growth and Director of Graduate Studies in the College of Engineering. I am proud to announce Dr. Yan Huang as the new interim chair: she brings a wealth of knowledge and information to help grow and lead the department. You can read more about the new faculty and staff in the '[Department News](#)' section.

Donors/Gifts

Thanks to generous donor gifts, the CSE department is able to fund student travel, student organization special projects, department remodeling and overhaul, and put valuable resources into other student centric activities. Please remember that we depend on donations to keep activities and events alive. Many employers offer a donor match, so please encourage your family to consider donating and to check with their employer to see if they match! You can even designate what you want your donation used for!

If you would like to contribute and make a gift, contact Diana.Bergeman@unt.edu.

Connect With Us



In Loving Memory Of Melanie Dewey

As many of you already know, our beloved Melanie Dewey died unexpectedly on July 9, 2020. Melanie was a mother, wife, daughter, and friend but most importantly a giver. She gave many smiles, laughs, and love to her family, friends, and students. She gave so much of her time to our team and helping others. As a team, we have had many sad days and we are still grieving. We have the beautiful memories and moments that we will hold onto forever. We miss Melanie so dearly and she will always be loved by us. We love you, Melanie.

- Your Tribe.



Student News

Join us Aug. 18 and 21 in virtual celebrations of your accomplishments.



Congrats, Grad!

Ph.D. in Computer Science and Engineering

Ali Alammari

Dhivya Infant Chinnappa

Ehsan Hesamifard

Masoud Narouei

Md Abu Sayeed

Yang Zhou

Master's in Computer Science

Gayatri Sravani Akella

Divya Bhanu Ayaluri

Eric Bengfort

Chahnitha Chandu

Haidi Chen

Naga Saiteja Chintakayala

Venkata Vikas Chirumamilla

George Clemons

Nikhitanjali Dodla

Amisha Gadhia

Justin Greco

Shahriyar Irshad

Jingfu Jiang

Usha Sree Kadari

Phani Sai Prasanna Kalaga

Gowtham Kesa

Chenchu Sai Krishna Kolli

Naga Supraja Kovur

Revanth Reddy Malreddy

Paula Mears

Bhuvan Mittal

Srikala Murugan

Yogesh Nimmagadda

Anuradha Niradi

Obianuju Okafor

Jordan Sanders

Himanshu Sharma

Manoj Kumar Thimapuram

Augustin Tran

Namratha Vijaygopalraj Urs

Master's in Computer Engineering

Munazza Ali

Varun Kumar Reddy Ateru

Bhavan Koyada

Kuntalbahen Narshibhai Patel

Congrats, Grad!

Bachelor of Science in Computer Engineering

James Bryan Artacho	Robert Moore
Matthew Boyer	Ramiro Ortiz
Clayton Clouser	Christopher Parten
Fadi El-Nemri	Jose Pena
Luis Garcia	Daniel Potichko
Garrett Gilcrease	Juan Ruiz
Daniel Heath	Nicolas Stencil
Tyler Hebert	Timothy Stern
Michael Helwick	Joseph Vo
Christopher Labra	David Woodward
Patrick Land	

Bachelor of Arts in Information Technology

Caleb Agbey	Ryan Heckmann
Moubarak Akamou	Devin Johns
Kendal Ballard	Kristopher Lonzie
Nicholas Bert	Jonathan Mays
Colton Butler	Loksubhash Pulivarthi
Pranjal Dhungana	William Quan
Cameron Faubion	Animesh Siwakoti
Juliet Gacheru	Robert Snyder
Benjamin Geiger	Justin Stout

Congrats, Grad!

Bachelor of Science in Computer Science

Bryan Adams				Reema Sharma
Jawad Ahmed				Bryson Sharp
Uzair Akram				Aladdin Shihabehhin
Abdulaziz Sinan Ali Al Shehhi				Lucas Simpson
Ibrahim Alkuwaifi	Eric Fox	Karla Lara	Dai Nguyen	Samuel Smetana
Muhammad Faizan Ansari	Martin Fritz	Curtis Lee	Brendan Nyambati	Rory Spralls
Jose Abraiza	Sweta Gautam	Kelly Lim	Abiral Pandey	Alex Stenzel
James Arnold	Filimon Gebrekidan	Weston Lopez	Christopher Panko	Manish Sukhupayo
Samuel Autrey	Ryan Gerard	Samikshya Luitel	Amit Pathak	Devin Texidor
William Baker	Benjamin Guffey	Joseph Maggio	Jackson Pfeffer	Isaac Thomas
Brady Barnett	Rabi Gurung	Tuan Mai	Anil Poudel	Theodore Tilleman
Carissa Barrett	Matthew Harris	Roshan Mainali	Peyton Pritchard	Ashley Torres
Ricardo Barroso	Juan Hernandez	Lisa Malnak	Mohamed Rahaman	Ngan Tran
Adam Boyer	Jonathan Hilgendorf	Jorge Martinez	Iida Raina	Carl Trautwein
Brice Brosig	Stephen Ho	Peter Menchu	Kabonzo Ramazani	Alexandra Triampol
Peyton Broussard	Basil Holloway	Aazrim Mirza	Jose Ramirez Garza	Thomas Truong
Avery Clariday	Luke Holman	Sangita Moktan	Sarah Richards	Parker Tuck
Christopher Cox	Hoang Huynh	Michael Moore	Lupe Rivera	Cooper Vick
Connor Crossland	Matthew Iyere	Ahmed Mostafa	Josh Robbins	Ryan Vo
Matthewit Decharech	Ephraim Jackson	Umanga Mulmi	Karla Rodriguez	Thien-An Vu
Mark Dockendorf	Aaron Johnson	Siddharth Murali	Derek Rogers	Elton Wee
Cameron Donner	Jenita Kawan	Travis Nguyen	Jacob Roquemore	Dominic Whiting
Natalie Drewfs	Summit Khatiwada	Anthony Nguyen	AnneMarie Sabatini	Derek Williamson
James Durflinger	Joshua Kim	Travis Nguyen	Jesse Sainz	Michael Wilson
Logan Falkensten	Jonathan Kleehammer		Martin Sanchez	Megdelawit Woldeeslassie
Matthew Floyd	Ethan Kolkmeier		Fahim Shams	

Haidi Chen defends thesis



Pictured from left to right: Dr. Song Fu, Haidi (Bruce) Chen, and Dr. Qing Yang.

Please join us in congratulating Haidi (Bruce) Chen on successfully defending his thesis on “BC Framework for CAV Edge Computing” on March 2, 2020. Pictured from left to right: Dr. Song Fu, Haidi (Bruce) Chen, and Dr. Qing Yang. Dr. Hui Zhao attended his defense remotely.

Best Paper Award

PhD student Xianwei Cheng received the Best Paper Award at the 21st International Symposium on Quality Electronic Design (ISQED 2020), for the paper “Alleviating Bottlenecks for DNN Execution on GPUs via Opportunistic Computing”. This work proposes novel design of GPGPUs to accelerate the execution of Deep Neural Network applications. He is advised by Dr Hui Zhao.



Xianwei Cheng

UNT Eagle Award



Md. Khorrom Khan

Congratulations to PhD student Md. Khorrom Khan for receiving the UNT Eagle Awards: Graduate Student Officer of the Year. He wrote a statement via Facebook on his thoughts: “I am truly grateful to the members of Bangladesh Student Association—UNT, UNT World Echoes and the Association for Computing Machinery UNT chapter. Thank you everyone who nominated and supported me”.

WINNERS

Outstanding PhD Student: Robin Chataut

Outstanding Computer Engineering Master's Student:

Nandini Damera

Outstanding Computer Science Master's Student:

Gayatri Akella

Outstanding Senior Computer Engineering:

Michael Helwick

Outstanding Senior Computer Science: Ngan

Tran

Outstanding Senior Information Technology:

Jon Mays

Outstanding Junior Computer Engineering:

Binu Gaire

Outstanding Junior Computer Science:

Gloria Kim

Outstanding Junior Information Technology:

Zachary Pyron

Outstanding Computer Science and Engineering Sophomore:

Matthew Fredericksen

Outstanding Computer Science and Engineering Freshman:

Ryan Cavasso

WINNERS

**Outstanding Entering Computer Science and
Engineering Freshman:**

Jeffrey Cole

Benjamin T. Hamilton Memorial Scholarship:

Ty Washburn

**The Gene Fuhrman Memorial Scholarship
Endowment in Computer Science:**

Anthony Do

CSE OUTSTANDING STUDENT AWARD

Department News

Dr. Yan Haung



Dr. Yan Haung

Dr. Yan Haung will be the new interim chair in Fall 2020. Dr. Haung is also the Senior Associate Dean for Faculty Affairs and Operations Director for Graduate studies. Her research interests include spatio-temporal databases and mining, geo-stream data processing, smart transportation, and location-based social networks. She has been a visiting scholar of Microsoft Research Asia May - Aug. 2011. During Fall 2011, she visited Fudan University, Shanghai, China. Her research is supported by Texas Advanced Research Program (ARP), Oak Ridge National Lab, NSF, Texas Department of Transportation, and DoD. She received her B.S. degree in Computer Science from Peking University, Beijing, China, in July 1997 and Ph.D. degree in Computer Science from University of Minnesota, Twin-cities, MN, USA, in July 2003.

Dr. Cihan Tunc

Dr. Cihan Tunc will be joining as an Assistant Professor. His research areas include cybersecurity, cloud computing, Internet of Things (IoT), and social media analysis for cybersecurity. Previously, he was a Research Assistant Professor at the ECE Dept. at University of Arizona, Tucson, AZ where he received his PhD (on Autonomic Cloud Resource Management). Before starting his PhD at The University of Arizona, he was at Ozyegin University, Istanbul, Turkey for one year. He received his MS degree from Northeastern University, Boston, MA and his BS degree from Bahcesehir University, Istanbul, Turkey.



Dr. Cihan Tunc

Dr. Serdar Bozdog



Dr. Serdar Bozdog

Dr. Serdar Bozdog will be joining as an Associate Professor. His research is in Bioinformatics/Computational Biology where his group utilizes data mining/machine learning methods to analyze big biological datasets. His research goal is to develop open source integrative computational tools to analyze high dimensional biological, clinical and environmental exposure datasets to infer context-specific gene regulatory interactions and modules, and to predict disease associated genes and patient-specific drug response. He received his BS degree in Computer Engineering at Marmara University and Ph.D. in Computer Science at the University of California, Riverside. He received postdoctoral fellowship by the National Cancer Institute at the National Institutes of Health.

Marla Smith

Marla Smith is the Administrative Specialist for the CSE Department. She will be working closely with Dr. Haung on scheduling and with Dr. Ludi on Undergraduate matters. Stop by F201J to say hello!



Marla Smith

Dr. Armin Mikler



Dr. Armin Mikler

After 23 years at UNT, Dr. Armin Mikler will be taking over as Department Chair in Computer Science at Georgia State University. Dr. Mikler served as Departmental Associate Chair for a number of years. Our loss is definitely GSU's gain.

Dr. Joseph Helsing

Dr. Helsing started the PhD. program in 2011 and graduated in 2018. He then worked for UNT as faculty in 2018-2020, though he technically started TF-ing in 2015. He is moving to Muhlenberg College in Allentown, Pennsylvania to his position as an Assistant Professor of Computer Science.



Dr. Joseph Helsing

New MS in Artificial Intelligence



UNT Engineering has opened a new master's of science degree in artificial intelligence. As the only standalone program in the state of Texas and one of few nationwide, this unique program will offer students the opportunity to enhance their skillset in the growing field of AI. Click [here](#) to learn more.

Dr. Hui Zhao wins best paper award

Best Paper: Alleviating Bottlenecks for DNN Execution on GPUs via Opportunistic Computing. In The 22nd International Symposium on Quality Electronic Design, ISQED2020. Dr. Hui Zhao and her team proposed opportunistic computing techniques to predictably perform computation near the data. By moving computations to data, the proposed techniques are able to significantly reduce data movement and relieve the DNN execution bottleneck.



Dr. Hui Zhao

Congratulations to faculty on receiving research grant and contract awards!

- PI: Mark Albert Department: Computer Science & Engineering, Bio-medical Engineering

Project Title: 79151 Machine Learning Techniques for Gait Data to Support Evidence Based Decision Making Sponsor: Shriners Hospitals for Children Project Period: 1/1/2020 - 12/31/2021 Award: \$35,915.00

- PI: Armin Mikler Department: Computer Science & Engineering

Co-PI: Martin O'Neill Department: Institute of Applied Sciences

Project Title: LA-County Web-REPLAN Sponsor: Los Angeles County Project Period: 3/19/2020 - 6/30/2020 Award: \$13,440.00

- PI: Song Fu Department: Computer Science & Engineering

Project Title: Exploring Declustered RAID and Pro-active Data Protection to Develop Always-On HPC Storage Systems Sponsor: Los Alamos National Laboratory - LANL Project Period: 3/19/2020 - 10/31/2020 Award: \$60,000.00

- PI: Eduardo Blanco Villar Department: Computer Science & Engineering

Project Title: Building Cybersecurity Analytics Capacity in Big Data Era: Developing Hands-on Labs for Integrating Data Science into Cybersecurity Curriculum Sponsor: Georgia State University (NSF) Project Period: 4/1/2020 - 6/30/2020 Award: \$61,788.00

- PI: Xuan Guo

Co-PI: Armin Mikler Department: Computer Science & Engineering

Project Title: A Computational Framework for Protein Identification and Quantification in Metaproteomics Using Data-Independent Acquisition Sponsor: National Institutes of Health - NIH Project Period: 7/1/2020 - 1/31/2023 Award: \$361,302.00

- PI: Sanjukta Bhowmick

Department: Computer Science & Engineering Project Title: Collaborative Research: SHF Core: Medium: NetSplicer: Scalable Decoupling-based Algorithms for Multilayer Network Anal-

“Git” Informed- Did You Know?

- Computer Science and Engineering is one of the biggest departments at UNT.
- Are you struggling? You can contact the Mental Health Hotline at 1-877-726-4727.
- In 1833, Charles Babbage invented all the parts a modern computer uses, but it wasn't until 120 years later that the first modern computers were invented.
- We miss you and are here for you! <3 Don't hesitate to reach out to us!

Puzzle Column

Find out Cheryl's Birthday. This puzzle appeared in the Singapore and Asian Schools Math Olympiad and went viral in 2015. The puzzle is:

Albert and Bernhard become friends with Cheryl and want to know when her birthday is. Cheryl, however, simply provides the month to Albert and the day of the month to Bernhard from a possible list of 10 dates shown below:

May		15	16			19
June				17	18	
July	14		16			
August	14	15		17		

(Albert does not know day of the month and Bernhard does not know the month)

Albert: I don't know when Cheryl's birthday is, but I know that Bernhard doesn't know too.

Bernhard: At first I don't know when Cheryl's birthday is, but I know now.

Albert: Then I also know when Cheryl's birthday is.

So when is Cheryl's birthday?

(Solve this on your own, there are solutions posted on the web that you do not want to consider before you have attempted to solve this by yourself.)

As a bonus: extend Cheryl's birthday puzzle on the 3rd dimension – year she was born. Consider a 3rd friend David who has been told only the year she was born. Change the above table in order to make everything work in the 3-dimensional setting

Please email Nagendra.gulur@unt.edu for puzzle ideas and solutions to posted puzzles. Please start the subject line of your email with "PUZZLE:".

** The first one to successfully solve the puzzle will receive a FREE swag bag 😊

