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 Bozdag 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
Dhivy 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 Sai Teja Chintakayala
Venkata Vikas Chirumamiilla
George Clemons
Nikhilanjali Dodla
Amisha Gadhia
Justin Greco
Shahriyar Irshad
Jingfu Jiang
Usha Sree Kadari
Phani Sai Prasanna Kalaga
Gowtham Kesa
Chenchu Sai Krishna Kolli
Naga Supraka Kovur
Revanth Reddy Malreddy

Paula Mears
Bhuvan Mittal
Srikala Murugan
Yogesh Nimmagadda
Anuradha Niradi
Obianuju Okafor
Jordan Sanders
Himanshu Sharma
Mandj 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
Matthew Boyer
Clayton Clouser
Fadi El-Nemri
Luis Garcia
Garrett Gilcrease
Daniel Heath
Tyler Hebert
Michael Helwick
Christopher Labra
Patrick Land

Robert Moore
Ramiro Ortiz
Christopher Parten
Jose Pena
Daniel Potichko
Juan Ruiz
Nicolas Stencil
Timothy Stern
Joseph Vo
David Woodward

Bachelor of Arts in Information Technology
Caleb Agbey
Moubarak Akamou
Kendal Ballard
Nicholas Bert
Colton Butler
Pranjal Dhungana
Cameron Faubion
Juliet Gachuru
Benjamin Geiger

Ryan Heckmann
Devin Johns
Kristopher Lonzie
Jonathan Mays
Loksubhash Pulivarthi
William Quan
Animesh Siwakoti
Robert Snyder
Justin Stout

Congrats, Grad!

Bachelor of Science in Computer Science
Bryan Adams
Jawad Ahmed
Usair Akram
Abdulaziz Sinan Ali Al Shehhi
Ibrahim Alkuwaisi
Muhammad Fazlan Ansari
Jose Abraiza
James Arnold
Samuel Autrey
William Baker
Brady Barnett
Carissa Barrett
Adam Boyer
Brice Brosig
Peyton Broussard
Avery Clardy
Christopher Cox
Connor Crossland
Matthew Decharech
Mark Dockendorf
Cameron Donner
Natalie Drewns
James Durflinger
Logan Falkensten
Matthew Floyd

Eric Fox
Martin Fritz
Sweta Gautam
Filimon Grebikidan
Ryan Gerard
Benjamin Guffey
Rabi Gurung
Matthew Harris
Juan Hernandez
Jonathon Hilgendorf
Stephen Ho
Basil Holloway
Luke Holman
Hoang Huynh
Matthew Iyer
Ephraim Jackson
Aaron Johnson
Jonathan Kawan
Summit Khatiwada
Joshua Kim
Jonathan Kleehammer
Ethan Kolmeyer

Karla Lara
Kurtis Lee
Kelly Lim
Weston Lopez
Samiksha Luitel
Joseph Maggio
Tuan Mai
Roshan Mainali
Lisa Malm
Jorge Martinez
Peter Menchu
Azzrim Mirza
Sangita Moktan
Michael Moore
Ahmed Mostafa
Umaima Muimi
Siddharth Murali
Travis Nguyen
Anthony Nguyen
Travis Nguyen

Dal Nguyen
Brendan Nyambati
Abral Pandey
Christopher Panko
Amit Pathak
Jackson Pfeffer
Anil Poudel
Peyton Pritchard
Mohamed Rahaman
Iida Raina
Kabonzo Ramazani
Jose Ramirez Garza
Sarah Richards
Lupe Rivera
Josh Robbins
Karla Rodriguez
Derek Rogers
Jacob Roquemore
AnneMarie Sabatini
Jose Salas
Martin Sanchez
Fahim Shams

Reema Sharma
Bryson Sharp
Aladdin Shihabebhini
Lucas Simpson
Samuel Smetana
Rory Sprrals
Alex Stenzel
Manish Sukhpayu
Devon Texidor
Isaac Thomas
Theodore Tillemann
Ashley Torres
Ngi Tran
Carl Trautwein
Alexandra Triampol
Thomas Truong
Parker Tuck
Cooper Vick
Ryan Vo
Thien-An Vu
Elton Wei
Dominic Whiting
Derek Williamson
Michael Wilson
Megdelanit Woldeselassie
Haidi Chen defends thesis

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.

UNT Eagle Award

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”.

Xianwei Cheng

Md. Khorrom Khan
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
Dr. Yan Huang will be the new interim chair in Fall 2020. Dr. Huang 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 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. Serdar Bozdag 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 is the Administrative Specialist for the CSE Department. She will be working closely with Dr. Huang on scheduling and with Dr. Ludi on Undergraduate matters. Stop by F201J to say hello!
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. Armin Mikler

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.

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:

<table>
<thead>
<tr>
<th>Month</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>May</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>June</td>
<td>14</td>
<td></td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>July</td>
<td>14</td>
<td>16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>August</td>
<td>14</td>
<td>15</td>
<td>17</td>
<td></td>
</tr>
</tbody>
</table>

(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 Bernard doesn't know too.
Bernard: 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 😊