UNT CSE Seminar Series for Fall 2024

Can be found online through http://cse.unt.edu/seminar

*The UNT Computer Science and Engineering Seminar series is held on **Tuesdays at 11:30 am - 12:50 pm in Discovery Park K150** (in the biomedical wing) unless otherwise noted - any deviation is in red. The seminar events are open to anyone, but CSE students are particularly encouraged to attend. All topics are tentative until one week before the event.*

This semester, graduate students can receive 1 credit toward graduation by enrolling in CSCE 5900-001 Special Problems (Syllabus link here). Can be repeated for credit. All events with dates/times in red are available for extra credit with recorded attendance.

Date (red if special day/time)	Topic
Thursday, Aug 15 9am - 12:30pm K150	**CSE Graduate Student Orientation** CSE Graduate Student Orientation Presentation [slides] (this event not available for extra credit attendance - just here for reference)
Thursday, Aug 15 2:00 - 3:30pm K120	**Projects Open House** Flier with details (15+ projects seeking students) If you are interested in a lab here is the lab interest form [link] (opens during the event and closes Friday, Aug 16 at noon).
Aug 20	**Seminar introduction** **Plugging into research and teaching at UNT (a.k.a. how to get a TA/IA/RA position in the department)** Stepping through the Syllabus link above for those taking the class for credit (which isn't necessary to attend any event). Time permitting: Plugging into research at UNT [slides]
Aug 27	**Dan Waters** Google GenAI Solutions Architect UNT MS in AI alum "Generative AI and the history, impact, and trajectory of transformers"
Sep 3	**George Mihaila** Amazon Research Scientist Current UNT CSE PhD student "Skills for AI Jobs and Interviews" [Slides]

Sep 10	**CSE Faculty presentations** Cihan Tunc “How to create Internet of Drone Things (IoDT)” + short interview Wajdi Aljedaani “Empirical Investigation of Accessibility Bug Reports in Mobile Platforms: A Chromium Case Study“
Sep 17	**CSE Faculty presentations** Xinrui Cui “Towards Explainable and Expressive Deep Learning in Visual Understanding” Mahdi Pedram Housekeeping: Academic Integrity guidelines announcement and call for Grad Council representation
Sep 24	**CSE Faculty presentations** Ajita Rattani “Passive and ProActive DeepFake Detection: Challenges and Future Research Directions” [slides] Sagnik Ray Choudhury “Fantastic Explanations and How to Find Them”
Oct 1	**Anthony Tomasic** “Application Manufacturing”’
Oct 4 **Main Campus** **Location: Union 314** **9:15am - 12pm**	**UNT Research Day** **Poster session** *For extra credit, must sign attendance sheet or card swipe by seminar TA or IA present*
Oct 8	**CSE Faculty + PhD Student presentation** Mátyás Szántó- Visiting Researcher “Crowdsourced Mapping for Autonomous Driving” [Slides] And Julie Germain - PhD student Techniques to improve the usability of quantum computers in the near-term [slides]
Oct 15	**PSA: Whirlwind tour of stats for CS** [slides] Stats “take home” messages [pdf], Example stats test flowchart [pdf] (side note: parting thoughts from stats for medical decision making]

Oct 15 **4 pm - 6 pm**	**College of Engineering Open House** Forms will be available at the front desk for 3 signatures from 3 different labs. You can return to the CSE main office or F206 (Biomedical AI lab, where Dr. Albert will be sitting until 6pm)
Oct 22	**Efficient coding and human vision** [slides] (visual processing primer [slides][bss sounds])
Oct 29	PhD Student Panel with Hamed Jalali (Ludi lab), Bharath Krishnamurthy (Rattani lab), and Abolfazl Meyarian (X. Yuan lab) Helpful tips on pursuing a PhD in CS [link] [Shen Deep Learning opportunity [link])
Nov 5	CSE Entrepreneurship panel with CSE Faculty Ervin Frenzel Beddhu Murali Lotfi Ben Othmane Mark V. Albert
Nov 12	**CSE PhD student presentations** Amal Alshehri Burak Tufekci
Nov 19	**Lawrence Hughes III** Introduction to IPv6: Africa IPv6 Cybersecurity Task Force [Slides]
Thu, Nov 21 **11:00am - 12:00pm** **F285**	**Dr. Christian Becker,** Head of Distributed Systems Institute, University of Stuttgart **Gregor Schiele,** Chair of Intelligent Embedded Systems, University Duisburg-Essen
Nov 26	**Thanksgiving Break (No Seminar)**
Dec 3 **Extra credit class (regular time and place)**	**Building a career and** **applying for academic positions: research or teaching** **(note, attendance is not required, this is an extra credit event)**

Potential future topics:

- Future of programming with AI assistance
- Semester course project presentation competition
- Experimental design and testing overview and applications to CSE
- Cloud computing compare/contrast
- PhD Student Panel. Helpful tips on pursuing a PhD in CS [link]
- Internship tips [slides].
- Faculty interview questions [link]

Research-oriented project design and approach	Project design tips and well as a discussion of packaging research (abstract/poster/paper writing tips). Presentation slides [gSlides] [ten rules for structuring papers] (serendipity examples [slides] - time permitting)
Interested in pursuing a PhD? a CSE PhD student panel with TBD	PhD admissions committee interview times for graduating BS or MS students will be coming.. Want to apply? Change of Major form for MS students graduating in Fall 2024 or after, or appytexas.org if graduating on or before Spring 2024.

Hourly Research Assistant Position in Deep Learning

Come join the research programs of Dr. Herman Shen (herman.shen@unt.edu) in bridging deep learning to engineering, manufacturing, and healthcare applications. Dr. Herman Shen is seeking outstanding master students for two hourly research assistants (up to 19 hours a week with pay of $20/hour) to conduct project research using deep learning tools.

Essential Qualifications:

- M.S. or Ph.D. students in Computer Sciences and Engineering or similar field Mechanical.
- Experience in using deep learning tools such as LSTM, Mask RCNN, GAN, VAE, Gripe NNs, YoLo, SAM, and LLMs.

The following is required for the completeness of the application:

- Current curriculum vitae with bibliography
- Proof of MS or PhD students (copy of transcripts with English translation, if applicable)
- Experience in Deep Learning technology (copy of projects, papers, or HWs, etc.)