



August 2026

Welcome to the Math Department



Message from the Chair



As we begin the Fall 2026 semester, I would like to warmly welcome back our faculty, staff, and students and wish everyone a successful and rewarding academic year. The start of a new semester brings new opportunities for learning, discovery, and collaboration, and I look forward to all that we will accomplish together.

A special welcome goes to our new students, including a strong cohort of doctoral students joining us this fall. We are delighted to have you as part of our community and look forward to another outstanding year of excellence in teaching, research, and service in the Department of Mathematics.

Events Calendar

Colloquium: Dr. Venky P Krishnan - Aug 21, 2-3pm PKH 311, "TIFR Centre for Applicable Mathematics, India"

Faculty/Staff Meetings: Aug 28, 2-4pm; Sept 25, 12:45-1:45pm; Oct 23, 2-4pm; Nov 20, 2-4pm

COS Faculty and Staff Meeting: Sept 25, 2-4pm

COS Student-Faculty Mixer: Aug 21, 3-5pm, SEIR, 2ND floor

Spotlight

- "Our own Dr. Souvik Roy's research on improving oncology treatment was recently featured online regarding Melanoma Treatment. Click [here](#) to read about it!"
- "UTA is one of 12 institutions selected to participate in the **Courseware Lighthouse Implementation Program** cohort. The initiative focuses on strengthening **Calculus I and II**, which serve as critical gateway courses for students pursuing STEM and related fields. UTA will begin implementation with selected sections of **Calculus I** in Fall 2026, including both online and face-to-face offerings, with possible expansion in Spring

2027 based on the results. The primary goal of the initiative is to improve student success in Calculus I.

Participating sections will use **Learnvia**, a nonprofit, AI-enabled courseware platform. The initiative is led by **Every Learner Everywhere**, with support from the **Gardner Institute**, **TPSE Math**, and **WestEd**, which provide faculty engagement, research, evaluation, and implementation support. Funded by the **Gates Foundation**, the program is designed as a sustained, department-level improvement effort rather than a one-time technology pilot."

- "A major research milestone has been reached for **Liutex**, a mathematical method for identifying and measuring vortex rotation developed by UTA Mathematics faculty member **Dr. Chaoqun Liu** and his research team. The National Oceanic and Atmospheric Administration (NOAA) is now providing real-time Liutex analysis and forecast plots for active tropical cyclones around the world through its Hurricane Analysis and Forecast System. For the first time, Liutex can be viewed in current tropical cyclone systems, with data updated every six hours. This exciting development brings Dr. Liu's mathematical research into real-time hurricane and typhoon analysis, demonstrating the powerful role mathematics can play in understanding complex atmospheric phenomena and potentially improving tropical cyclone research and forecasting. Liutex data for tropical cyclones globally are available at <https://storm.aoml.noaa.gov/viewer/>, which are updated every six hours by NOAA and published to the whole world. You can read the data to show the movies of the tropic cyclone online if you are interested [Congratulations](#) to Dr. Liu and his collaborators on this significant achievement!"

A Note from the Newsletter Committee

Hello Math folk!

We hope your Fall 2026 is off to a great start! We wanted to take just a little bit of space here to remind everyone that the newsletter is a space to share upcoming events, research highlights, student achievements, calls for collaborators, committee news, and other moments worth celebrating. Our hope is that this will aid in helping us stay connected and informed as a department, one newsletter at a time.

One of us will be pestering you throughout the semester for information, here's the first request:

Click on the link at the bottom of this newsletter and fill out a form when you want to brag about a colleague, yourself, or to share some math jokes!

Math Jokes

36 Methods of Mathematical Proof

If the proof of a theorem is not immediately apparent, it may be because you are trying the wrong approach. Below are some effective methods of proof that might aim you in the right direction.

- **Proof by obviousness:** "The proof is so clear that it need not be mentioned."
- **Proof by general agreement:** "All in favor?..."
- **Proof by imagination:** "Well, we'll pretend it's true..."
- **Proof by convenience:** "It would be very nice if it were true, so..."
- **Proof by necessity:** "It had better be true, or the entire structure of mathematics would crumble to the ground."
- **Proof by plausibility:** "It sounds good, so it must be true."
- **Proof by intimidation:** "Don't be stupid; of course it's true!"
- **Proof by lack of sufficient time:** "Because of the time constraint, I'll leave the proof to you."
- **Proof by postponement:** "The proof for this is long and arduous, so it is given to you in the appendix."
- **Proof by accident:** "Hey, what have we here?!"
- **Proof by insignificance:** "Who really cares anyway?"
- **Proof by mumbo-jumbo:** $\forall \alpha \in \Phi, \exists \beta \in \alpha * \beta = \alpha, \dots$
- **Proof by profanity:** (example omitted)
- **Proof by definition:** "We define it to be true."
- **Proof by tautology:** "It's true because it's true."
- **Proof by plagiarism:** "As we see on page 289,..."
- **Proof by lost reference:** "I know I saw it somewhere...."
- **Proof by calculus:** "This proof requires calculus, so we'll skip it."
- **Proof by terror:** When intimidation fails...
- **Proof by lack of interest:** "Does anyone really want to see this?"
- **Proof by illegibility:** 
- **Proof by logic:** "If it is on the problem sheet, it must be true!"
- **Proof by majority rule:** Only to be used if general agreement is impossible.
- **Proof by clever variable choice:** "Let A be the number such that this proof works..."
- **Proof by tessellation:** "This proof is the same as the last."
- **Proof by divine word:** "...And the Lord said, 'Let it be true,' and it was true."
- **Proof by stubbornness:** "I don't care what you say- it is true."
- **Proof by simplification:** "This proof reduced to the statement $1 + 1 = 2$."
- **Proof by hasty generalization:** "Well, it works for 17, so it works for all reals."
- **Proof by deception:** "Now everyone turn their backs..."
- **Proof by supplication:** "Oh please, let it be true."
- **Proof by poor analogy:** "Well, it's just like..."
- **Proof by avoidance:** Limit of proof by postponement as it approaches infinity
- **Proof by design:** If it's not true in today's math, invent a new system in which it is.
- **Proof by authority:** "Well, Don Knuth says it's true, so it must be!"
- **Proof by intuition:** "I have this gut feeling."



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