The EPS Fall 2022 social where the whole department got together for a potluck!

Visit Our Website! https://www.utsa.edu/sciences/earth-planetary-sciences/

Message from the Department Chair

It is my pleasure to represent our students, faculties, and staff as to their participation in making this year’s newsletter possible. The goal of our department is to promote a comprehensive learning and research environment in Earth and Planetary Sciences under the College of Sciences, with Earth Science/Geoscience being one of the fastest growing disciplines in educational institutions in the nation and South Texas. This past year has been exemplified by our students' accomplishments and successes in various territories. It ranges from obtaining employments right after graduation, building more partners with local industry, acquiring resources, representing our science at various conferences, and presenting award winning proposals. On the same token, our faculties were equally productive in developing new courses but also bringing in some of the best federal grants within the last two years. The most important accomplishment for the department has been to recruit one new faculty member among us and in a growing subdiscipline of Planetary Sciences. We are thrilled to welcome our new member and we are overseeing the growing interest of students in terms of Planetary Sciences research. We have also streamlined the Environmental Science and Engineering PhD program and our students now have a home for each and every program. This newsletter will guide you through the exciting events and great achievements from our faculty, staff, and students that have occurred in our department. I hope you will enjoy the newsletter and please reach out to me or any one of us for your ideas to make this department a home for the future Earth and Planetary Scientists.

Saugata Datta, Professor and Chair, Department of Earth and Planetary Sciences
Faculty Highlights

- **Professor Stephen Ackley** awarded the 2022 SCAR (Scientific Committee on Antarctic Research) Medal for International Coordination. An important SCAR activity is recognition of excellence in Antarctic and Southern Ocean research and outstanding service to the international Antarctic community.

- **Dr. Matt Cannon** created a new teaching concentration in the Bachelor of Arts in Geosciences degree in collaboration with the UTeachSA program and with the help of the undergraduate curriculum committee (Sandy Cannon, Janet Vote, and Alberto Mestas). Students who complete this degree will be certified to teach 6-12 Physical Sciences in the state of Texas.
  - Represented the department of Earth and Planetary Sciences at the Southwest Gem and Mineral Societies Fiesta of Gems.
  - Appointed Undergraduate Advisor of Record for the Department of Earth and Planetary Sciences and lead a push to simplify the BA and BS degree streamlining the course sequence for the 24-26 catalog cycle.

- **Dr. Saugata Datta** received the GSA Geology and Health Division Meritorious Service Award. The award recognizes outstanding contributions to the mission of the GSA Geology and Health Scientific Division.
  - Named a 2022 GSA Fellow. Society Fellowship is an honor bestowed on the best of the profession by election at the spring GSA Council meeting in recognition of a sustained record of distinguished contributions to the geosciences and the Geological Society of America.

- **Dr. Yongli Gao** has been promoted to Full Professor.

- **Dr. Alexis Godet** was appointed Graduate Advisor of Record of the ESE PhD program for the College of Sciences.

- **Dr. Alberto Mestas** was recently invited to attend the launch of NASA's Tropospheric Emissions: Monitoring of Pollution (TEMPO) satellite, Friday, April 7 at Kennedy Space Center, Florida. UTSA will soon become a member of a validation network for TEMPO through the upcoming installation of a Pandora spectrometer in its Downtown Campus to measure air quality downtown San Antonio (see the New Grants list on Page 5)

- **Professor Janet Vote** has been promoted to Assistant Professor of Practice.

- **Dr. Blake Weissling** is joining a 4-year UTSA Research Effort in Support of Investigation, Documentation and Assessment at Cliff Palace, Mesa Verde National Park, Colorado. Blake’s role in this project is to provide geophysical survey assessments of structures within the ruins – data that will ultimately inform structural engineering models of masonry walls and foundations.

- **Dr. Alan Whittington** "Moon Life" Article in the Spring 2023 Sombrilla. In a NASA-funded joint venture with Astroport Space Technologies, Alan and his team are researching ways to build launch pads and other structures on the Earth's Moon.

- **Dr. Hongjie Xie** becomes a SCAR Geosciences Scientific Group Representative. The U.S. Scientific Committee on Antarctic Research (US-SCAR) promotes polar science within the U.S. and the international Antarctic scientific community by facilitating the participation of U.S. scientists in SCAR activities.

- **Dr. Saugata Datta and Dr. Harshad Kulkarni** awarded NSF RAPID Grant. RAPID is a type of proposal used when there is a severe urgency regarding availability of, or access to, data, facilities or specialized equipment, including quick-response research on natural or anthropogenic disasters and similar unanticipated events.
Welcome New Faculty!

Kaushik Mitra: Dr. Mitra is a planetary geoscientist and an aqueous experimental geochemist. He received his Integrated B.Sc. and M.Sc. Degree in Applied Geology in 2015 from the Indian Institute of Technology (IIT) Kharagpur in India. He received his Ph.D. from the Department of Earth & Planetary Sciences at Washington University in St. Louis in 2021 where he was a NASA FINESST fellow. Prior to joining EPS, UTSA, he was a postdoc in the Department of Geosciences at Stony Brook University.

Expertise: Kaushik uses a combination of lab experiments, geochemical modeling, and field investigations to study Aquaplanets, planetary bodies with liquid water on their surface and subsurface, both in the past (like Mars and Ceres) and in the present (like Europa and Enceladus). His research investigates geochemical processes occurring on the surface of planetary bodies at the intersection of the lithosphere, hydrosphere, and atmosphere. He specifically focus on halogens, oxyhalogens mainly, and their inter-connectedness with various redox sensitive elements like iron, manganese, sulfur, and carbon. His research helps to understand the astrobiological potential and conduct the paleoenvironmental reconstruction of early Mars.

Kaushik’s Experimental Planetology Laboratory (EPL) [or Mitter Lab] will be equipped to conduct experiments in controlled environments to mimic different planetary bodies surfaces to establish fundamental geochemical parameters at non-ambient temperature and pressure conditions as well as aimed at hypothesis testing. The lab will be especially equipped to conduct aqueous phase experiments with material characterization capabilities using X-Ray Diffractometer instrument with non-ambient sample stage capabilities (P, T, Relative Humidity). The lab will also develop a Planetary Surface Simulator that will be capable of mimicking the surface conditions on terrestrial planets (Mars, Mercury), Titan, and airless bodies (like Moon, asteroids) in the Solar System. His latest research on manganese oxidation was recently published in Nature Geoscience in which he shows that early Mars likely did not have oxygen. It has been covered by more than 45 news outlets in 60+ stories including ScienceDaily, Phys.org, Interesting Engineering, Space.com, Eurekalert and other news agencies. The article is in the top 5% of all research outputs scored by Altmetric.

Kaushik strongly believes in equity and inclusion, and regularly participates in educational research, outreach, and community development via education and active learning. He also teaches chemistry, geology, and planetary sciences on his YouTube channel.

New Instruments

The **AccuFlo AF10-CE micro-abrasive blaster** in the **Rock Lab**.

It is used for fossil preparation by using varying abrasives to remove matrix from specimens and expose the morphological characteristics of the specimen being studied. This allows students and faculty in the department to expose fossils for study, which can enhance not only paleontological studies, but stratigraphic and paleoenvironmental studies as well.

The unit was originally obtained by Dr. Lambert through the **MORESE Grant** from the Department of Education and put into service this semester by Janet Vote for use in an Independent Study.
Student Highlights

- PhD Student Ashley Aguilar Received a Research and Development Fellowship with the City of San Antonio
- MS Student Adriana Ariza Pardo was awarded $2000 to attend the NASA Planetary Data Training Workshop at Arizona State University in May
- Undergraduate Student Tiffany Barker-Edwards Received Internship with Keck Geology Consortium
  
  This internship is an advanced project in the Michigan Basin that will be largely completed in the summer of 2023 with mentorship during the Fall of 2023. Mentor will be: Sandy Cannon.

- Congratulations to Tiffany Barker-Edwards, 2022 Dean’s Fund for Excellence Award Recipient

  Tiffany is a junior Geosciences major focusing on earth system and climate.

- #ThisIsWhatAScientistLooksLike: Tiffany Barker-Edwards
- #AwesomeAlum: Heidi Harwick
- Izzy Heathman Awarded the 2023 COS Outstanding Graduate Student Award
- MS Student Steven Hollan Elected as GSA Geology and Health Student Representative

  The student representative advises on matters concerning GSA student and early career issues, as well as Geology and Health Scientific Division outreach to a young audience, including social media.

- Undergraduate Student Cassidy Lane was awarded $2500 for an NSF Fellowship
- Undergraduate Student Lauren Malesky Renovated the Mineral Display for the Department

  After cataloging the over 800 specimen Hamilton collection, Lauren made custom labels for each piece and revitalized the EPS 2nd floor display with minerals, fossils, and an educational section to help others learn more about Geology.

- MS Student Ruben Olivares Awarded GSA Geology and Health Division Student Research Grant

  The GSA Geology and Health Division's focus is to develop the highest quality understanding of the origins and fates of naturally occurring materials that affect health and the earth processes that affect health.

- MS Student Justin Sharpe Awarded NSF Graduate Research Fellowship

  This fellowship will provide Justin with funds for his doctoral degree. Justin’s research plan includes study locations in Texas, Brazil, Guatemala, and Mexico.

- #ThisIsWhatAScientistLooksLike: PhD Student Tom Varner
  
  Tom is an Environmental Science and Engineering (ESE) PhD student.

- PhD Student Tom Varner Qualified for a Fulbright Scholarship

  The title of his Fulbright project is "The Iron Curtain: Impacts on Arsenic Mobility along the Banks of the Hooghly River."

  Tom will be working with two prominent universities in India.

- Earth Day Undergraduate Poster Competition Winners:
  
  First Place: Austin Patridge, Second Place: Jaida Veiga, Third Place: Cassidy Lane

- Earth Day Graduate Poster Competition Winners:
  
  First Place: Corrinne Kotara, Second Place: Salman Sakib, Third Place: Samuel Oseji

  Group selfie at Earth Day 2023
New Grants

- **Center for Advanced Measurements in Extreme Environments (CAMEE)**. NASA MIRO, (UTSA). Active from 10-01-2022 to 09-30-2024. PI: Chris Combs (UTSA), co-PI’s: Steve Ackley, Alberto Mestas-Nunez, Daniel Pineda, Alan Whittington

- **INTERN supplement to NSFGEO-NERC: Collaborative Research: Multi-scale investigation of rheology and emplacement of multi-phase.** NSF EAR, (UTSA). Active from 03-15-2023 to 03-14-2024. PI’s: Alan Whittington. Intern: Brenna Halverson


- **UTSA, Office of Research Support, Mapping karst features and water quality using drones**, (PI) Yongli Gao

- **RAPID: Impacts of high magnitude wildfire on volcanic (lava) cave water chemistry, nutrient transport, activity and diversity of cave microbiome.** PI: Saugata Datta

Scholarships

- **Fulbright Scholarship**
  - Doctoral Student Recipient: Tom Varner

- **Beck Scholarship**
  - Student Recipient: Heidi Harwick: This scholarship enabled Heidi to travel to Tampa, Florida to present her research paper at the 17th Sinkhole Conference in March 2023.

- **Amy Shelton & V.H. McNutt Endowed Presidential Scholarship**
  - Emma Dorrell
  - Wesley Arrizon
  - Maria Rodriguez-Rodriguez
  - Justin Sharpe
  - Samuel Oseji
  - Vanessa Costilla Bermea
  - Korei Patterson
  - Chinenye Agbim
  - Noah Klitus
  - Dana Griggs
  - Tiffany Barker-Edwards
  - Austin Patridge
  - Cassidy Lane
  - Elizabeth Heathman
  - Ross Glore

- **San Antonio Geophysical Society Research Scholarship**
  - Noah Klitus
  - Korei Patterson

- **Jerry Wayne Earnest Memorial Scholarship of the Geosciences in the COS Wilford L Stapp Memorial Fund for Undergraduate Research Mrs. Parvathammall Endowed Scholarship**
  - Korei Patterson


Publications


Conference Presentations


Conference Presentations


- J. Williams #, S.F. Ackley, A.M. Mestas-Nuñez, G.J. Macdonald, Flooded sea ice floe detection in the Antarctic Ocean with Sentinel-1 SAR, 2022 AGU Fall Meeting Chicago, IL and Online Everywhere, December, 12-16.

- C. Sustayta #, A.M. Mestas-Nuñez, An Inverse Calculation of Glider-based Absolute Geostrophic Currents in the Gulf of Mexico, 2022 AGU Fall Meeting Chicago, IL and Online Everywhere, December, 12-16.

- **A.M. Mestas-Nuñez, J.K. Sloan ##, K. Mendiondo #, C.A. Moreland #, The Magnitude of the Hurricane Harvey (2017) Freshening Anomaly in the Western Gulf of Mexico, 2022 AGU Fall Meeting Chicago, IL and Online Everywhere, December, 12-16.**

- **M. Joshi #, S.F. Ackley, and A.M. Mestas-Nuñez, G.J. Macdonald, Variations in sea ice thickness over Weddell Sea for 2019-2020 using ICESat-2, 2022 AGU Fall Meeting Chicago, IL and Online Everywhere, December, 12-16.**

- I. Oseghae #, K. Bhaganagar, and A.M. Mestas-Nuñez, Understanding the Role of Environmental Metrics Affecting Wildfire Vegetation Burn Severity, 2022 AGU Fall Meeting Chicago, IL and Online Everywhere, December, 12-16.


- **Kulkarni, H.V., Ford, J., Datta, S., Blank, J.** (2023) Geochemical analyses and modelling to understand secondary mineral formation in volcanic (Lava Tube) caves. 4th International Planetary Caves Conference, 4-7th May, Lanzarote, Spain.


- **Yang, C., H. Xie, and X. Miao, 2022.** How to leverage AI/ML for Earth Science Research using Arctic sea ice as an example (A workshop of 1.5 hours). EarthCube Annual Meeting: Building Beyond. San Diego, CA, June 14-16.

- **Koo, Y., Xie, H., Kurtz, N.T., Ackley, S.F.,** 2022, Thermodynamic and dynamic sea ice growth in the Ross Sea from ICESat-2, Fall AGU Meeting, Dec 12-16, Chicago, IL.
Geological Society of America Presentations

- **Sansing, A., Godet, A., Sharpe, J.,** and Lacroix, B., 2022, The resilience of a northern Tethyan carbonate platform during the OAE1A: Geochemical insights from the Corbières region of France: Geological Society of America Abstracts with Programs, v. 54, no. 5, [https://doi.org/10.1130/abs/2022AM-378762](https://doi.org/10.1130/abs/2022AM-378762)

- **Price, D., Adams, T., Suarez, M.B., and Godet, A.,** 2022, Unusual preservation of dinosaur tracks during high frequency sea-level changes in the Glen Rose Formation (Albian, Early Cretaceous), Northern-Central Texas: Geological Society of America Abstracts with Programs, v. 54, no. 5, [https://doi.org/10.1130/abs/2022AM-380494](https://doi.org/10.1130/abs/2022AM-380494)

- **Godet, A., Byerly, J., Bourdon, M., Arnaud-Vanneau, A., Suarez, M.B.,** and Adatte, T., 2022, The demise of a subtropical carbonate platform during Aptian super greenhouse times: Geological Society of America Abstracts with Programs, v. 54, no. 5, [https://doi.org/10.1130/abs/2022AM-378728](https://doi.org/10.1130/abs/2022AM-378728)


- **Suarez, M., Cuellar, J., Snell, K., Godet, A.,** and **Price, D.,** 2022, Paleoclimate and chemostratigraphy of the Hensel Formation, Kimble County, Texas: Geological Society of America Abstracts with Programs, v. 54, no. 5, [https://doi.org/10.1130/abs/2022AM-381823](https://doi.org/10.1130/abs/2022AM-381823)


- **Nordstrand, T.,** Felton, A., **Kulkarni, H.V.,** Hutchinson, J., **Gao, Y.,** and **Ackley, S.F.,** 2022, Microplastics in large hailstones from two central Texas supercell thunderstorms: Geological Society of America Abstracts with Programs, v. 54, no. 5, [https://doi.org/10.1130/abs/2022AM-383621](https://doi.org/10.1130/abs/2022AM-383621)


- **Datta, S., and Kulkarni, H.V.,** 2022, Functions of dissolved organic matter in various geochemical systems: Geological Society of America Abstracts with Programs, v. 54, no. 5, [https://doi.org/10.1130/abs/2022AM-383575](https://doi.org/10.1130/abs/2022AM-383575)


Whittington, A., 2022, What brittle structures can tell us about the emplacement of silica lava flows and domes: Geological Society of America Abstracts with Programs, v. 54, no. 5, https://doi.org/10.1130/abs/2022AM-383791


Conference Sessions Convened


Invited Lectures & Outreach

- Cannon, M., May 2023, An interview about the Laramide orogeny in Big Bend for Marfa Public radio.
- Cannon, S., March 2023, “Your Journey is Your Own” UTSA Women in STEM. A motivational presentation to inspire young COS women by sharing my career journey.
- Cannon, S., April 2023, “Day of Service Induction Speech” for Sigma Gamma Epsilon. A motivational presentation to inspire SGE members to give back to the community.
- Datta, S., May 2023, San Antonio, TX. Innovations in Data Analytics for Smart Agriculture (iDASA) Workshop
- Gao, Y., March 2023, Flinders University, National Center for Groundwater Research and Training, Integration of water quality, groundwater flow, and contaminant transport models to track sources, fate, and transport of nitrate in karst watersheds, central Texas.
- Gao Y., April 2023, University of Melbourne, School of Geography, Earth and Atmospheric Sciences, Environmental Reconstruction and the Terrestrial Paleoclimate Record from Eastern North America: 600,000 years BP to Present.
- Xie, H., June 2022, An invited seminar talk in University of Calgary (Canada) on Antarctic sea ice thickness and volume changes from remote sensing observations.
- Xie, H., January 2023, An invited workshop to the University of Concepcion (Chile) on Introduction of ICESat/ICESat-2 and cloud-based ICESat-2 data processing and applications.

Outreach:
- Elrod Elementary School Visit: Presented the rock cycle, dinosaur tracks, and volcanoes to 3rd, 4th, and 5th graders.
- Gonzalez Elementary School Visit: Presented earth science related activities to 3rd and 4th graders.
- John Jay High School STEM Fest: Open community forum for a chance to talk with the local community and John Jay high school students.
Degrees Awarded

Fall 2022 BS
- Dylan Ashwood, BS-Geosciences
- Kayla Bishop, BS-Geosciences
- Emmanuel Ovugbe, BS-Geosciences
- Kaitlyn Tillery, BS-Geosciences
- Mallory Wilkins, BS-Geosciences

Fall 2022 MS
- Andrea Mazzeo, MS-Geosciences
- Daniel Mathura, MS-Geoinformatics
- Iyare Oseghae, MS-Geoinformatics
- Faith Goddard, MS-Geosciences, A Geochemical Comparison of Three Large Edwards Aquifer Springs at Comal Springs, Texas. (supervised by Yongli Gao)
- James Django Doster, MS-Geosciences, Investigating Groundwater Between the Upper and Middle Trinity Aquifers in Central Texas. (supervised by Yongli Gao)

Spring 2023 MS
- Tomas Fernandez, MS-Geoinformatics
- Samuel Oseji, MS-Geosciences, Elemental geochemistry and organic carbon content in the Boquillas Formation, West Texas. (supervised by Alexis Godet)
- Alexis Sansing, MS-Geosciences, The resilience of a northern Tethyan carbonate platform during the OAE1a: Geochemical insights from Corbières, France. (supervised by Alexis Godet)

Spring 2023 PhD
- YoungHyun Koo, PhD in ESE, Using ICESat-2 satellite altimetry data to improve understanding of thermodynamic and dynamic sea ice characteristics in the Ross Sea, Antarctic. (supervised by Hongjie Xie)

Certificates Awarded

Fall 2022
- Jamie Gillis, Professional Certificate in Geographical Information Science

Spring 2023
- Aaron Acosta, Professional Certificate in Geographical Information Science
- Dylan Ashwood, Undergraduate Certificate in Geographical Information Systems
- Brianna Bocook, Professional Certificate in Geographical Information Science
- Madasun Korst, Undergraduate Certificate in Geographical Information Systems
Department’s Activities

Alan Whittington, Ashley, Lauren, and Matt Cannon demonstrate explosive volcanism to 4th grade students at Henry B Gonzalez Elementary School.

The Earth Day poster presentation, where Corrinne won the first-place Graduate student prize, and Austin won the first-place Undergraduate student prize.

Ross and Daniela talking to future students at the April UTSA Day.

Sandy Cannon, Alex Godet, and Dianna Price at John Jay High School.

Steven, Protik, and Ronny giving tours of the labs on UTSA Earth Day.

Wyatt and Corrinne talking to future students at the March UTSA Day.

Matt Cannon instructing students at Gonzalez Elementary School.

Alan Whittington, Ashley, Lauren, and Matt Cannon demonstrate explosive volcanism to 4th grade students at Henry B Gonzalez Elementary School.
Department’s Activities

Izzy, Lauren, Austin, Melissa, Jaida, and Corrinne on a fossil hunt at UTSA

Melissa, Lauren, Austin, Izzy, Corrinne, Atlas, Ashley, and Ross on a fossil hunt with SGE

SGE induction for Fall 2022 where Austin, Cassidy, Melissa, Yakira, and Savannah became members.

SGE induction for Spring 2023 where Wyatt, Adam, Kelsey, and Tanner became members.

Izzy, Lauren, Austin, Melissa, Jaida, and Corrinne on a fossil hunt at UTSA

Melissa, Lauren, Austin, Izzy, Corrinne, Atlas, Ashley, and Ross on a fossil hunt with SGE

Jaida and her fossil finds

Daniela, Chapter President of AEG, taking a selfie with a Mammoth skull replica.

All the officers of AEG; Daniela, Ross, Sophia Ashley, and Cassidy.

Ross with the skeleton of a 60,000yr old endemic camel in Waco.

AEG at Waco Mammoth National Monument

Cassidy, Ross, Ashley, Daniela, and Tiffany at the AEG booth.
Alex Godet, Dr. Bloxson, Maria Rodriguez, and students from Stephen F. Austin University at the IBA competition.

"The IBA competition was a great experience and gave us a good overview of the oil and gas industry, allowing us to work with real data. Being part of a joint team with SFAU and UTSA was a great success but challenging due to the distance when coordinating schedules and tasks via online. I encourage the master's students of the next semesters to join for the following year, it is a great learning opportunity."

-Maria Rodriguez

**Department’s Activities**

![Image of a group of people at an event]

**Christian Sustayta, left, at AGU presenting his poster**

**Daniela Bartels presenting her research at GSA 2022.**

**Lauren and Austin at GSA 2022 meeting the creator of mindat.org, Jolyon Ralph.**

![Image of people running a booth at an event]

**Brenna, Brian, Ronny, and Alex Godet running the UTSA booth at GSA 2022.**

![Image of Sophia Buck and Daniela Bartels at an event]

**Sophia Buck and Daniela Bartels at the Fiesta of Gems Show representing UTSA.**
Geo Moments

Tom Varner collecting samples along the Beas River in India.

Petrology class field trip to Enchanted Rock, March 2023.

Morning hiking to the Andes glacier in Chile with Hongjie Xie and his team.

Korei Patterson working with a rock saw in the rock lab for her project.

Crevasse with rolling rocks on top in the Andes glaciers (Chile).

Alan Whittington in front of the 400m thick ~26 km3 Chao dacite coulée in the Atacama desert, Chile.

Doctoral student Tom Nordstrand (MS, 2022) at the margin of the Weston Caldera, west Texas.

Korei Patterson working with a rock saw in the rock lab for her project.

Melissa, Lauren, Cassidy, Olive, Jaida, and Nathan on a rock at the Enchanted Rock Field Trip, March 2023.
Geo Moments

UTSA’s Blake Weissling (on ladder), Dr. Angela Lombardi, and Dr. James Mason of the National Park Service inspect the Cliff Palace at Mesa Verde.

Students using their geology skills at summer field camp in Montana

Students visiting the Ernst Tinaja; the Boquillas formation at Big Bend

“The field experience at Big Bend was a unique adventure that I feel fortunate to have participated in. The ability to learn and investigate such an extraordinary and vast location is one to be admired. This field experience expanded student limits, encouraged adventure, established comradery, and ignited a sense of wonder.”
-Korei Patterson

Ruben collecting water samples in Eagle Pass

The camp site of Hongjie Xie in the Andes glaciers.

Students using their geology skills at summer field camp in Montana

Structural Geology class at Big Bend National Park.

-Larry Estrada, CPhT.

Structural Geology class at Big Bend National Park taking notes in the field.
Geo Moments

Quy Fung and Lauren Malesky detecting radioactive minerals.

Saugata Datta’s Aqueous Geochemistry class at the Edwards Aquifer Authority with Jessica Quintanilla and Alyssa Balzen.

Joshi, Mansi - Lake depth and ice thickness estimations using ICESat-2, Presented at Sea Ice School, Nunavut Canada (May 2022).

Petrology class at Enchanted Rock examining en echelon fractures.

Phoenix and Zach taking a strike and dip and taking notes in Big Bend National Park on the Spring Break trip.

Austin Patridge “holding” a concretion at Dino Ridge in Denver, Colorado.

Alex Godet, Dianna, and Alexis visiting the dino tracks at Dino Ridge.

View of a radar survey in a ceremonial kiva, conducted by Blake Weissling, assisted by Sara Rodriguez.

Saugata Datta’s Aqueous Geochemistry class at the Edwards Aquifer Authority with Jessica Quintanilla and Alyssa Balzen.
Support our Students!
If you would like to make a donation to support our Department of Earth and Planetary Sciences students, faculty and research, please follow this link to the UTSA giving site.

Website: https://www.utsa.edu/sciences/earth-planetary-sciences/

LinkedIn: https://www.linkedin.com/groups/8562033/

Instagram: https://www.instagram.com/earthplanetarysciences_utsa/?igshid=YmMyMTA2M2Y


SGE: https://rowdylink.utsa.edu/organization/sigmagammaepsilon

AEG: https://rowdylink.utsa.edu/organization/aeg_utsa