



# Explore! STEM @ UTSA

Dr. Wei Wang (Computer Science)  
Dr. Kathy Ewoldt (Special Education)

Sponsored by  
Texas Work Force Commission Vocational Rehabilitation Service



# Intro to Explore!STEM@UTSA

- Learn STEM occupations through hands-on activities
- Topics
  - Software Engineering – Computer Programming in Python
  - Data Science – Autonomous Driving Basics
    - Lane Detection
    - Vehicle Detection
  - Cloud Computing



# About US

- Wei Wang, Assistant Professor, Computer Science
- Kathy Ewoldt, Assistant Professor, Special Education
- Tutors
  - Sean Soderman
  - Dylan Dumas
  - Prashant Sedhain
  - Edward Monsibaiz

# Intro to Explore!STEM@UTSA cont.

- Guest Speakers from other STEM fields:
  - Day 1 (Aug 10<sup>th</sup>): Dr. Francis Yoshimoto, Chemistry
  - Day 3 (Aug 12<sup>th</sup>): Jerry Towler (SwRI, Autonomous Driving)
  - Day 5 (Aug 14<sup>th</sup>): Dr. Kevin Desai, Comp Sci, Comp Gaming
  - Day 6 (Aug 17<sup>th</sup>): Dr. Hongjie Xie, (Geology)
  - Day 8 (Aug 17<sup>th</sup>):
  - Day 10 (Aug 21<sup>st</sup>):

# Schedule

- Aug 10<sup>th</sup> to Aug 21<sup>st</sup>
  - Mondays, Wednesdays and Fridays:
    - Lectures, activities and Guest speakers

Time	Activities
9:00am – 9:15am	Stage
9:15am – 10:00am	Lecture/Activity Block1
10:00am – 10:15am	Break
10:15am – 11:15am	Lecture/Activity Block 2
11:15am – 12:00am	Guest Speaker

- Tuesdays and Thursdays:
  - Online Tutoring 9:00am – 11:00am



# What we need from you?

- A growth-mindset and willingness to learn attitude
- Ask any questions you have no matter how small
- Patience - with us, your parents, and yourself
- Only use your first name for display in the TEAMS environment



# Working with Tutor and Your Fellow Students

- All students will be part of a study group
- Each group has 2-3 students and one tutor
- Each group has its own channel in the MS Teams
  - Please communicate with your group members and tutors in the designated channel



# Pre-camp Assessment

- The last thing for this introduction is to fill out the pre-camp assessment