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 10th): Dr. Francis Yoshimoto, Chemistry
  - Day 3 (Aug 12th): Jerry Towler (SwRI, Autonomous Driving)
  - Day 5 (Aug 14th): Dr. Kevin Desai, Comp Sci, Comp Gaming
  - Day 6 (Aug 17th): Dr. Hongjie Xie, (Geology)
  - Day 8 (Aug 17th):
  - Day 10 (Aug 21st):
Schedule

- Aug 10\textsuperscript{th} to Aug 21\textsuperscript{st}
  - Mondays, Wednesdays and Fridays:
    - Lectures, activities and Guest speakers
    - | Time                  | Activities                |
      |------------------------|---------------------------|
      | 9:00am – 9:15am        | Stage                     |
      | 9:15am – 10:00am       | Lecture/Activity Block 1  |
      | 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