

# STARS@SLU 2025

# ORIENTATION



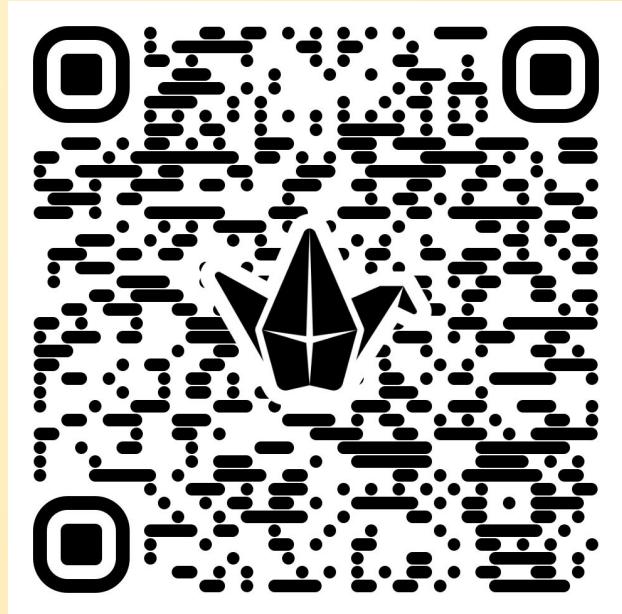
SAINT LOUIS  
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EST. 1818

# Program Norms

1. Share talk time
2. Listen to understand
3. Everyone has expertise
4. Be present\*
5. Critique ideas, not people
6. Embrace discomfort
7. Treat everyone with respect
8. Normalize time to think / process
9. others? changes?

Let's make a list for our program together!



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# Getting to know each other



Özlem Uğurlu  
*Director*



Bryan Clair  
*Co-director*



Cody Gilbert  
*Co-director*



Alina  
Abdurakhimova  
*Graduate Assistant & Mentor*



Sasha  
Trejo-Arciles  
*Undergraduate Assistant & Mentor*

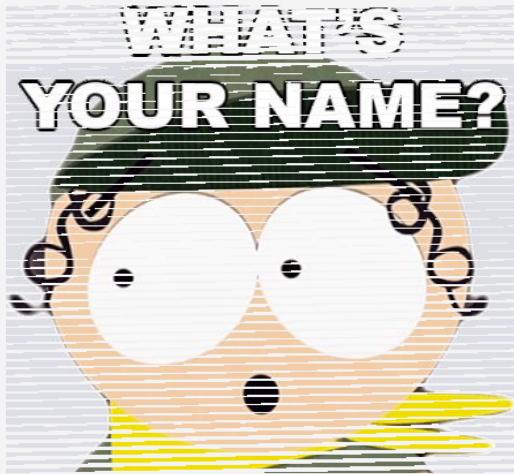


Preetinder Kaur  
*Undergraduate Assistant & Mentor*



Ava Robertson  
*Undergraduate Assistant & Mentor*

# Introduce yourselves; including name, school and grade!



# Let's learn more about each other.

Padlet

ozlemugurlu + 21d  
**STARS@SLU 2025 Meet**

Post your response to the discussion topic by clicking the plus button below.

What gif reflects best your spring semester?



What emoji describes best how you're feeling today?



Music while working: Yes or No?



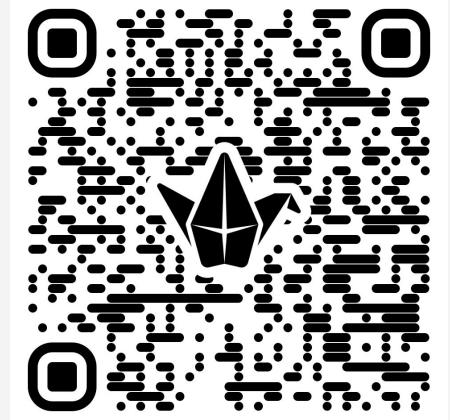
If you could swap lives with any fictional character for a day, who would it be?



Would you rather never have homework again or never have to take exams again?



No exam!



# Outline of the Program

01

02

03

## Week 1

Hands-on workshop  
Sessions on Academic and Career Growth  
Mentoring sessions  
Campus Tours  
Game Sessions

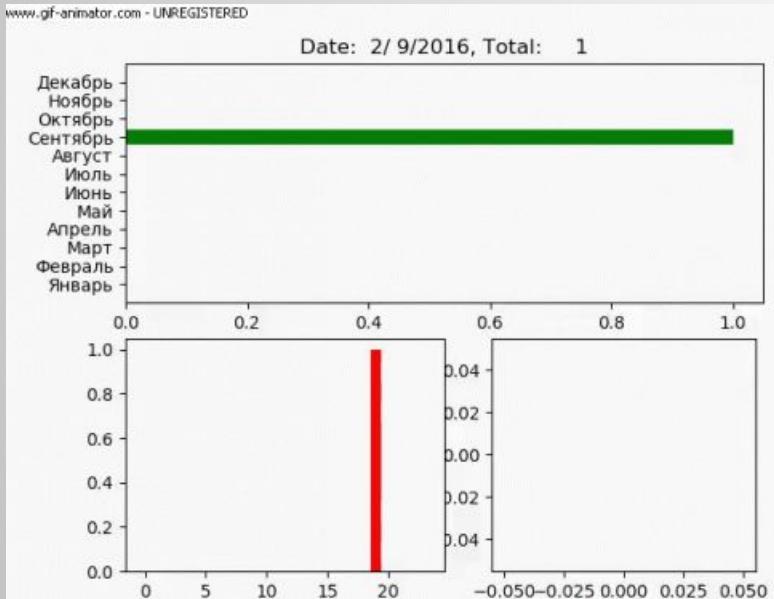
## Week 2

Group Projects  
Poster Preparation Sessions  
Mentoring Sessions  
Invited Speakers  
Game Sessions

## Last Day

Poster Presentation  
Certificate of Completion  
Closing Remark & Reception

# Research



- In the first week, you will attend a workshop series, two 1.5-hour sessions per day.
- The topics will include basic R usage, data cleaning and manipulation with dplyr, and data visualization with ggplot2.
- You will learn to create statistical and graphical summaries of data.
- At the end of the first week, you will be introduced to potential research projects and team up based on your shared interests.
- Throughout the second week, you will work in small groups on collaborative projects under the supervision and guidance of mentors.

# Mentoring



**Student mentors will support you through the program**

Mentoring helps you:

- Build confidence and navigate challenges
- Develop a stronger sense of belonging in mathematical community
- Gain access to resources, networks, and opportunities
- Learn from someone who has been in your shoes

**This is your support system. You're not alone in this journey.**



# Mentoring

- **Prior to your first meeting with your mentor, write down a few things you might want help with.** Rank the items in order of importance to you. Also write down things, if any, that concern you most about meeting with your mentor. Rank these things in order of importance.
- Write down things you would like your mentor to provide to make the most of the mentoring opportunity.
- **The focus of most successful mentoring is mutual learning.** Feel free to explore what you have to offer the mentor. A sense of humor and a sense of enjoyment of your time together are essential as well.

# ⬇ Academic and Career Growth

Learning and development opportunities through panel and invited speaker sessions.

## At a glance

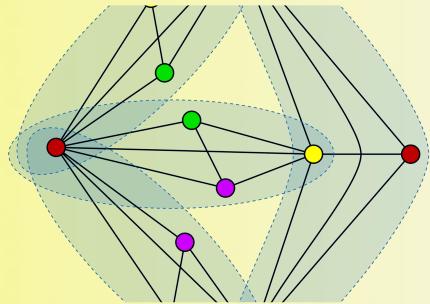
- What to know about College Life
- How to apply to a College
- Summer Opportunities
- Careers in STEM



# GROWTH MINDSET



# Game Session



01

Telestration



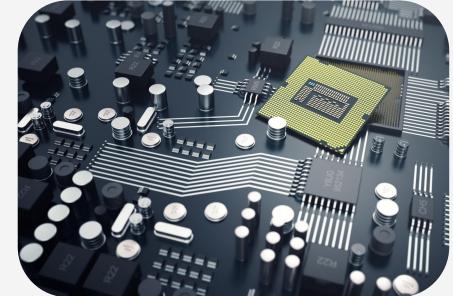
02

Function Battleship



03

Data Manipulation



04

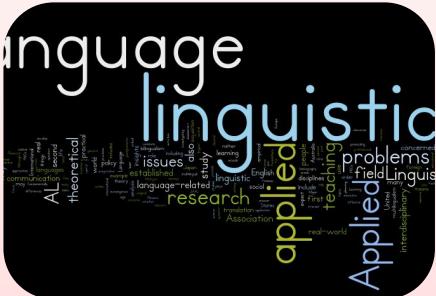
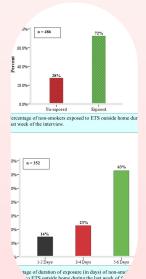
Planar Graphs

05

Game of Fifteen



# Invited Speakers



01

## Literature

Dr. Ander Beristain &  
Dr. Andre Zampaulo

02

## Biostatistics

Dr Nikki Freeman

03

# Computer Science

Dr. Abby Stylianou

04

# Electrochemical Engineering

Dr. Erfan Asadipour

05

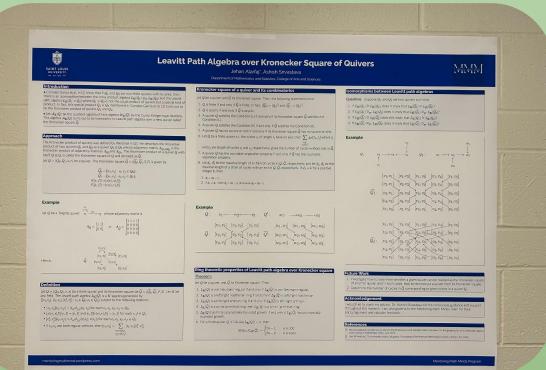
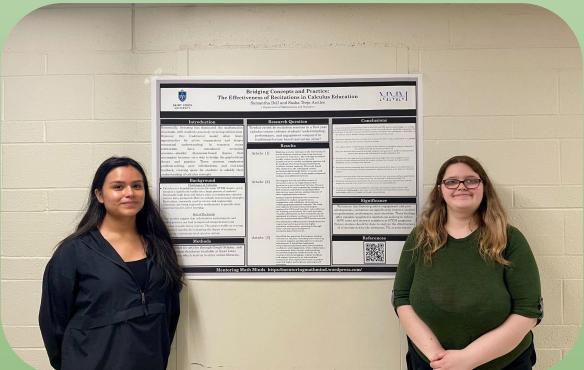
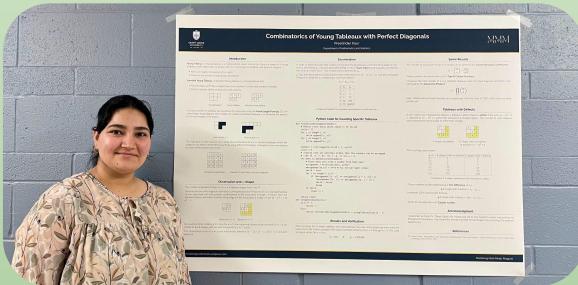
Chemistry

Dr. Michael Hankins



# Poster Presentation

- Environmental Sustainability
- Healthcare Equity
- Health and Healing
- Education and Equity
- And more ...



## Project details

**Preparation Due Date:** Make sure to prepare your posters by Thursday, August 7th, 5PM

**Putting up the posters:** Friday, August 8th, Noon - 1PM

**Location:** ISE Lobby

**Poster Session:** Friday, August 8th, 1-2pm

**Feel free to invite anyone you'd like!**

See the projects on our website:  
[stars-slu.github.io/2025/](https://stars-slu.github.io/2025/)

# Checklist

01

## Logistic

### **Breakfast:**

In front of ISE 230

### **Sessions & Workshops:**

ISE 230

### **Lunch:** Grand Dining Hall

**Picnic on Wednesdays**

02

## Stipend and Travel Support

### **Stipend & Travel:**

Your information was shared with the Post Award Specialist, Sara Baumann. Expect an email from her.

Email:

[sara.bauman@slu.edu](mailto:sara.bauman@slu.edu)

03

## Signed Forms

1. SLU Photo Release Form
2. Liability Waiver
3. Health Medical Release Form
4. Community Agreement Form

04

## Program Materials

All the materials will be available on GitHub site:

[stars-slu.github.io/2025/](https://stars-slu.github.io/2025/)



Posting on Social Media?  
Tag MAA!

#MAAGrants  
#MAAPrograms  
#MAA  
#MathGrants

# What is Next for the day?

01



## Workshop - Part I

**Team or lead:** Led by Dr. Bryan Clair and Student Assistants

**Objective:** What is data? Computer files. Looking at data in a spreadsheet. R and the command line.

**Time:** 10 - 11:30 am

02



## Workshop - Part II

**Team or lead:** Led by Dr. Bryan Clair and Student Assistants

**Objective:** Script files and the basics of programming. Loading data into R. Summary statistics, simple plots.

**Time:** 1 - 2:30 pm

03



## Campus Tour

**Team or lead:** Will be led by Visit SLU Staff, starting from the ISE building

**Objective:** Explore the SLU North Campus

**Time:** 3 - 4 pm

04



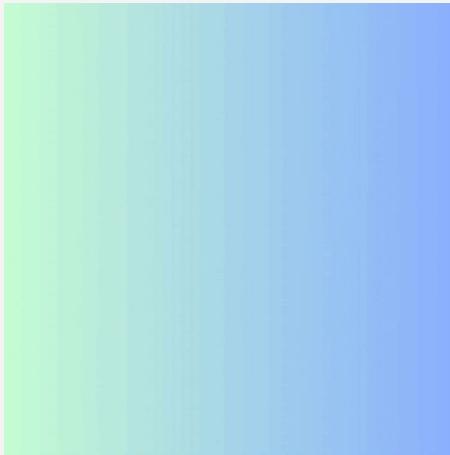
## Mentoring Session

**Team or lead:** Led by Student Mentors

**Objective:** Meeting with mentors, setting goals

**Time:** 4:15- 5:00 pm

# Thank you



Questions?

