STARS@SLU 2025

ORIENTATION

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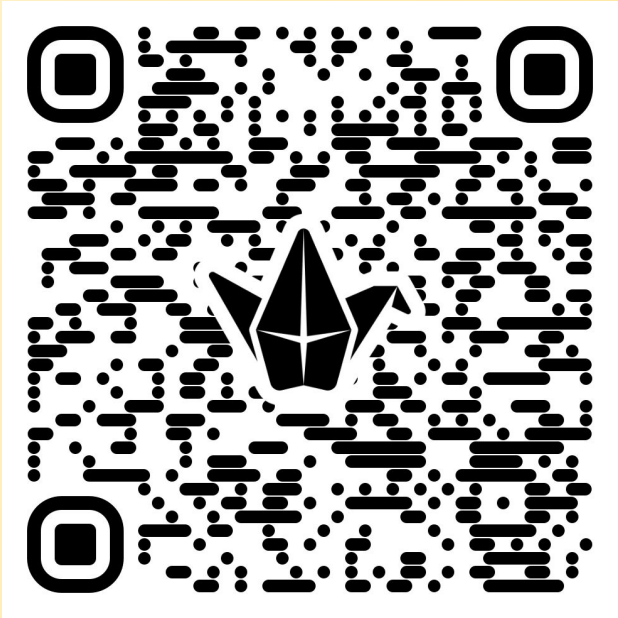
Program Norms

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



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

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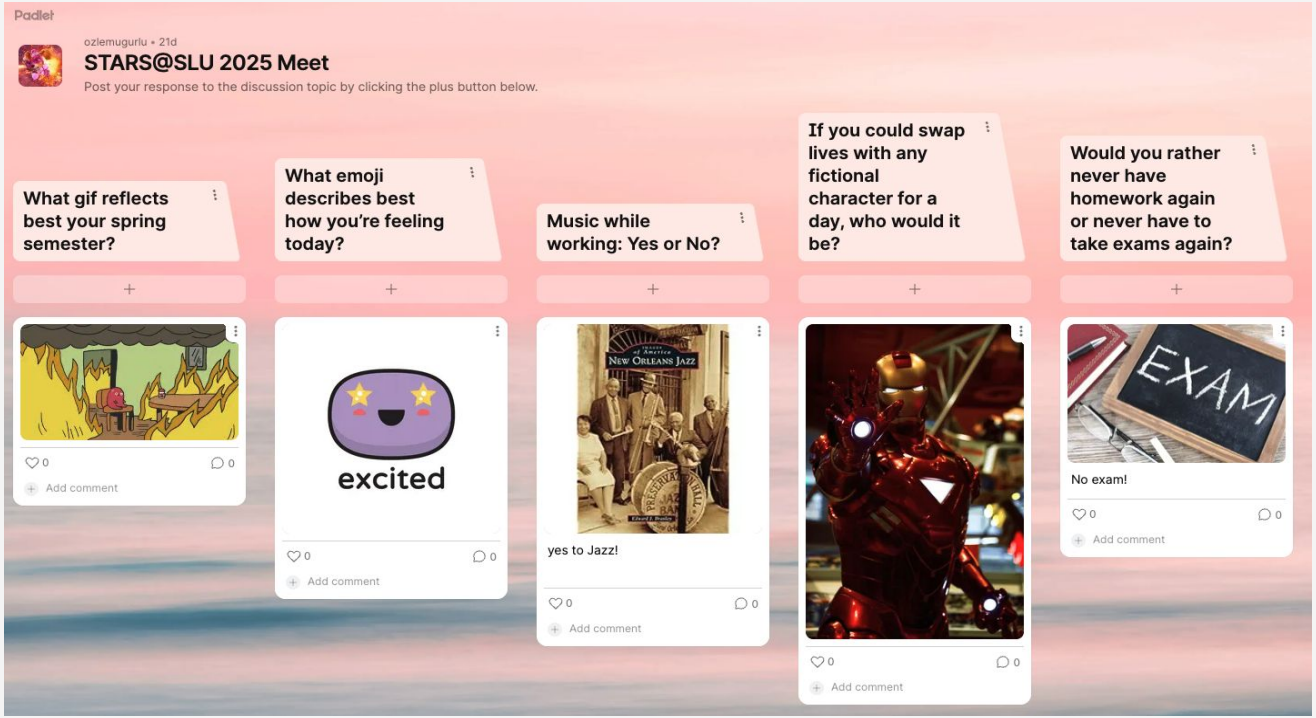
Introduce yourselves; including name, school and grade!

Let's learn more about each other.



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Outline of the Program

01

Week 1

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

02

Week 2

Group Projects
Poster Preparation Sessions
Mentoring Sessions
Invited Speakers
Game Sessions

03

Last Day

Poster Presentation
Certificate of Completion
Closing Remark & Reception

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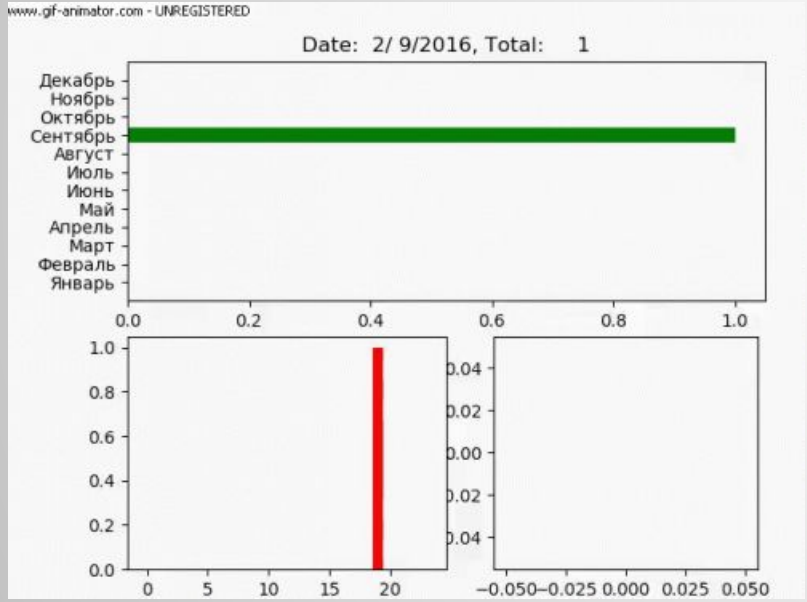
Research



- 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.

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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.

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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

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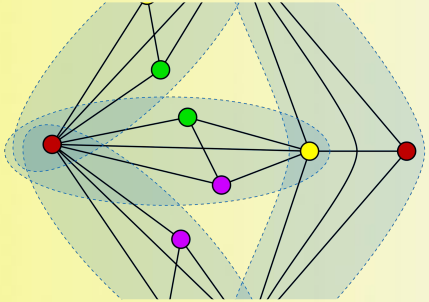
Game Session

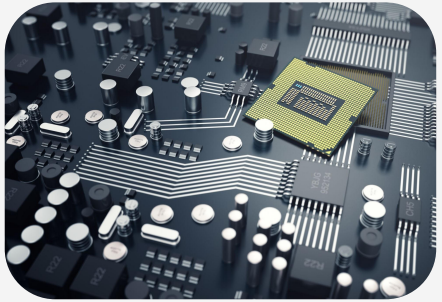


01

Telestration

02

Function Battleship



03

Data Manipulation

04

Planar Graphs

05

Game of Fifteen

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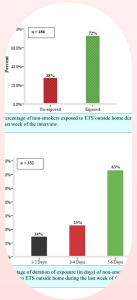
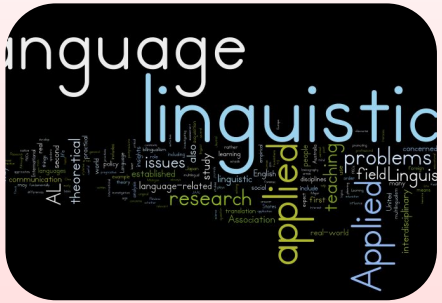
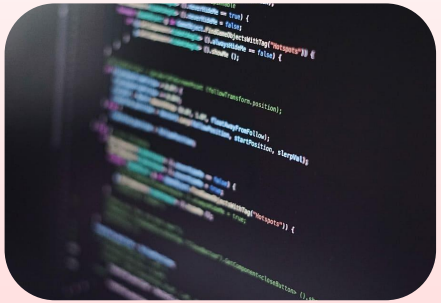
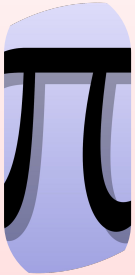
Invited Speakers









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

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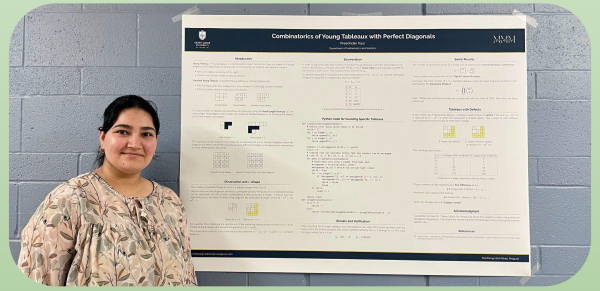
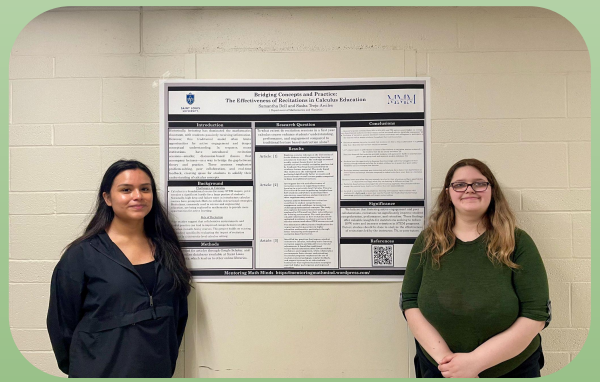
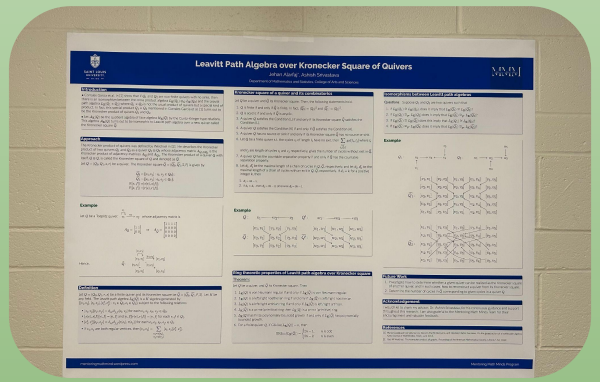
Poster Presentation

- 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, 3PM

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/

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Checklist

Posting on Social Media? Tag MAA!

#MAAGrants
#MAAPrograms
#MAA
#MathGrants

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

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/

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What is Next for the day?

01

Workshop - Part I

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

Objective: Connect to Posit.cloud and begin using R. Learn base R functionality. Learn RStudio features

Time: 10 - 11:30 am

02

Workshop - Part II

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

Objective: Install packages and load libraries. Use simple **dplyr** verbs and pipes. Read data from files.

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

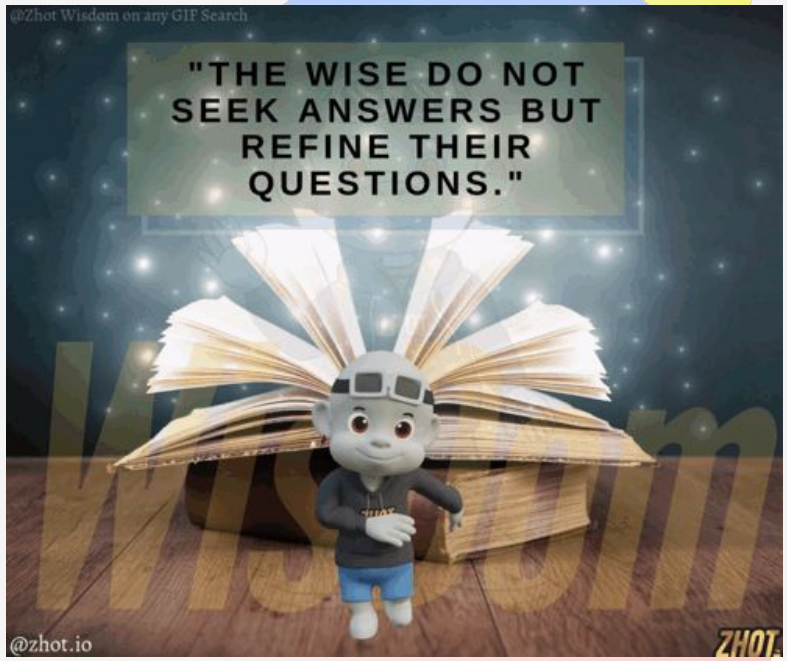
04

Mentoring Session

Team or lead: Led by Student Mentors

Objective: Meeting with mentors, setting goals

Thank you



Questions?

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