

YUSRA AMENA

📍 Edwardsville, IL-62025

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EDUCATION

Southern Illinois University Edwardsville

Bachelor of Science- Biological Sciences

Aug 2026 (Expected)

CGPA-3.33

Specialization- *Genetics and Cellular Biology* | **Minor-** *Chemistry*

SKILLS

Laboratory Skills- Lab Safety, Sterilization Techniques, Spectrometry, Spectroscopy

Research Skills- Literature review, Data Collection, Hypothesis Testing, Experiment designing

Software Proficiency- Microsoft Office, Image J, Book-eye Scanner, I-Share, ILLIAD, Qualtrics

Language Proficiency- English, Urdu, Hindi, Telugu

EXPERIENCE

Interlibrary Loan Student Assistant | *Lovejoy Library, Edwardsville, IL*

June 2023- Present

- Managed comprehensive interlibrary loan services, efficiently processing and coordinating resource requests
- Delivered personalized patron support, optimizing resource access and enhancing user library experience

STEM Student Mentor | *SIUE STEM Center, Edwardsville, IL*

May 2023-April 2025

- Assisted students in refining research questions, identifying appropriate methodological approaches, and critically analyzing scientific literature
- Collaborated closely with students to enhance research skills, and scientific communication techniques

Research Intern | *Grow Pro Genetics, Hamel, IL*

Summer 2024

- Conducted advanced research in “*Soft Red Winter Wheat Breeding*”, focusing on speed breeding and single seed descent methodology
- Performed comprehensive field research including line purity assessment, harvesting and post harvesting techniques

STEM Student Ambassador | *SIUE STEM Center, Edwardsville, IL*

May 2023-April 2024

- Analyzed comparative student experiences across completed and ongoing math enrichment programs and co-authored research study on “*Student Perceptions of Math Enrichment Sessions*” at Southern Illinois University Edwardsville
- Presented collaborative research at ISAS Annual Meeting in Decatur, IL

UNDERGRADUATE RESEARCH AND CREATIVE ACTIVITY PROGRAM | *SIUE, Edwardsville, IL*

Phenotypic Resistance of *Pseudomonas aeruginosa* in Photodynamic Inactivation

Aug 2024-Present

- Conducted experimental research to analyze phenotypic resistance mechanisms of *Pseudomonas aeruginosa* under photodynamic therapy (PDT) using specific photosensitizers.
- Utilizing microscopy to measure bacterial response and resistance patterns under light-activated conditions.

INVOLVEMENT

- Active Member of the Muslim Student Association (MSA)- *Responsible for organizing events and activities*
- Student mentor for STEM Student Ambassador Program- *Guiding Student STEM Ambassadors research methodology and project design*

AWARDS

- **Geographic Enhancement Opportunity (GEO) & Plus Award** | *SIUE, Edwardsville, IL*
- **1st Place, Poster Presentation- STEM Education Division** | *ISAS Annual Meeting 2024, Decatur, IL*
- **William M. & Hilda C. Gent Friends of Lovejoy Library Award** | *Issued by Friends of Lovejoy Library, June 2024*