

JESSICA THEODORA

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EDUCATION

BACHELOR OF ENGINEERING IN BIOMEDICAL ENGINEERING

SOUTHERN UNIVERSITY OF SCIENCE AND TECHNOLOGY

Expected Graduation: June 2026

- Relevant Coursework: Molecular Cell Biology, Medical Imaging Systems, Medical Image Processing, Quantitative Physiology, Biomaterials and Tissue Engineering
- GPA (Last Semester): 3.91/4.00

RESEARCH EXPERIENCE

Applied Biomechanical Tissue Regeneration Laboratory (PI: CHAO LIU)

2023 – PRESENT

- Designed and conducted experiments on mechanical loading of defective bones to assess biomechanical properties.
- Performed immunofluorescence staining on thick-section tissues to analyze cellular and extracellular matrix composition.
- Conducted quantitative analysis of blood vessels in skeletal tissues using image processing and statistical methods.

Guangdong Provincial Key Laboratory of Human-Augmentation and Rehabilitation Robotics (PI: Chenglong Fu)

2024 (Summer)

- Conducted research on peripheral nervous system reflex pathways to support rehabilitation strategies for stroke patients.
- Collaborated with doctors in a clinical setting to perform experiments on muscle signal recording using EMG devices.

CONFERENCE PRESENTATIONS

Fan, Y., Theodora, J., et al. *3D Analysis of Age-Related Changes of Meniscus-Associated Vasculature in the Mouse Model*. Poster presented at **OARSI 2025 World Congress on Osteoarthritis**, Incheon, South Korea, April 2025. Abstract published in *Osteoarthritis and Cartilage (OAC)*, Supplement Issue, 2025.

AWARDS AND HONORS

- **Recipient**, Southern University of Science and Technology Presidential Scholarship, 2022–Present (Full tuition, living expenses, and accommodation covered)
- **Recipient & Project Lead**, Climbing Plan Guangdong Provincial Science & Technology Innovation Grant (15,000 RMB), 2024
- **Certificate of Participation**, Tsinghua Shenzhen International Graduate School Global Summer School (Institute of Biopharmaceutical and Health Engineering), 2023
- **National Bronze Medal**, Belt and Road International Biomedical Innovation Forum, 2022

WORK EXPERIENCES

- **Blast Mandarin**, Private Chinese Tutor
2024-Present
- **Poetyque Event Organizer**, Usher
2022

SKILLS

- **Data Analysis & Research:** Statistical analysis, experimental design, MATLAB, Python
- **Problem-Solving & Critical Thinking:** Ability to analyze complex issues and propose solutions
- **Communication & Collaboration:** Experience working in teams, presenting findings, and writing reports
- **Project Management:** Organizing research projects, meeting deadlines, and multitasking effectively
- **Adaptability & Learning Ability:** Quickly learning new tools, technologies, and concepts
- **Languages:** English, Chinese, Bahasa Indonesia, Korean

ADDITIONAL INTERESTS

- Experienced Guzheng player with several performance experiences
- Enthusiastic about travelling and outdoor activities