

# Sitong Chen

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## OVERVIEW

- Highly motivated and collaborative engineering student with a strong interest in Brain-Computer Interface (BCI) applications
- Strong expertise in data collection and analysis in a six-month dataset construction project
- Hands-on experience in EEG signal acquisition, preprocessing, machine learning, and decoding algorithms.
- Authored a research paper to Scientific Data (In submission), showcasing research proficiency.
- Recipient of multiple awards for technical and academic excellence

## EDUCATION

**Southern University of Science and Technology (SUSTech)** Shenzhen, China  
*B.E. in Biomedical Engineering* Sep. 2022–Present

- GPA: 3.73/4.00, Weighted Average Score: 89.76
- Scholarships: Freshmen Scholarship (Second Prize, \$1380), The Third Class of the Merit Student Scholarship (\$210)
- Core course: Machine Learning and Its Medical Engineering Applications(A), Intelligent Sensing Technology(A), Medical image processing(A), Neural Engineering and Brain-computer Interface(A-)

## RESEARCH EXPERIENCE

**Southern University of Science and Technology** Shenzhen, China  
**Experiment Conductor, Construction of ChineseEEG-2 Dataset** June 2024 – Jan. 2025  
*Advisor: Dr. Quanying Liu*

- Conducted the main experiment on the construction of the ChineseEEG-2 multimodal EEG dataset, focusing on cross-modal semantic alignment and neural decoding during reading and listening tasks, performed data preprocessing and analysis including Inter-Subject Correlation and audio reconstruction.
- Designed experimental protocols for recording EEG and audio data acquisition during reading-aloud and passive-listening tasks.
- Supervised on-site data collection in Macau, ensuring alignment of triggers for temporal synchronization between EEG signals and linguistic stimuli.

### Achievements:

Contributed to dataset standardization under the EEG-BIDS framework; Authored sections of the technical validation protocol for inter-subject correlation analysis and source reconstruction.

**Southern University of Science and Technology** Shenzhen, China  
**Team Member, Multimodal Speech Neural Decoding Project** Sep. 2024 –Present  
*Advisor: Dr. Quanying Liu*

- Explored cross-modal neural decoding by aligning EEG signals with speech representations in latent space and reconstruct the audio or text from foundational large language models (LLMs) like Wav2Vec2 and BERT.
- Implemented multimodal alignment algorithms using Python and TensorFlow to map EEG embeddings to audio-text semantic spaces.
- Conducted statistical validation of model performance through inter-subject correlation (ISC) and stimulus reconstruction metrics.

#### Achievements:

Achieved improved neural decoding accuracy compared to baseline models; Presented basic structure at the 2024 BME Research Day in Southern University of Science and Technology

## PUBLICATIONS

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**Sitong Chen**, Beiqianyi Li, Cuilin He, et al. *ChineseEEG-2: An EEG Dataset for Multimodal Semantic Alignment and Neural Decoding during Reading and Listening[DS/OL]. V1*. Science Data Bank, 2025[2025-03-12]. <https://cstr.cn/31253.11.sciencedb.20611>. CSTR:31253.11.sciencedb.20611.

## AWARDS & HONORS

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Second Prize in the Freshmen Scholarship, <i>SUSTech</i>	Nov. 2022
Grand Prize in the 2nd "Yanxing Cup" English Application Skills Competition, <i>Guangdong Undergraduate College English Teaching Advisory committee</i>	Nov. 2022
Finalist Award for Competent Organizer in "Returning to Hometown" in the Campus Committee, <i>SUSTech</i>	Jan. 2023
Third Prize in "Understanding Contemporary China" Interpretation Competition, <i>Foreign Language Teaching and Research Press</i>	March 2023
Second Prize in the National English Competition for College Students (NECCS), <i>TEFL China</i>	Jun. 2023
"BME Research Day" Outstanding Poster Award, <i>SUSTech</i>	Nov. 2024
Third Prize in the "Rixin" Training Camp Roadshow, <i>SUSTech</i>	Dec. 2024
Finalist project in 19th "Challenge Cup", <i>SUSTech</i>	Feb 2025

## SKILLS

#### Language Skills:

- English (CET-6: 624, CET-SET6 A, IELTS: 7.5); excellent reading comprehension of scientific literature, capable of independently writing academic papers in English, and proficient in communicating research findings with advisors.
- Mandarin (Native).

**Programming and Software Proficiency:** Python, MATLAB, Java, LaTeX, PyCharm, MicrosoftOffice

**Specialty:** Taekwondo (Reached Green belt / blue tip), Indoor Rowing (Reached second-level athlete standard), Piano (Reached Grade 10)