Gansheng Tan

Mechanical Building B, Room 304,
800 Dong Chuan Road, Shanghai 200240, P.R. China
Tel: +86 13162132710
Email: gansheng.tan@student.ecp.fr; aegean0045@outlook.com

Objective

Team-minded and **self-motivated** master student in biomedical engineering with 3 years of experience in **meditation** and **stroke rehabilitation research** seeks admission into the Neuroscience Program at Washington University in St. Louis.

Education

since 09/2019
Shanghai, China

M.Sc. Mechanical and Biomedical Engineering
Shanghai Jiao Tong University
Anticipated Completion: March 2022

06/2017 – 09/2019
Île-de-France, France

Diplôme d'ingénieur (postgraduate degree in engineering)
CentraleSupélec
Topics: Advanced Statistics, Machine Learning, Optimization, Signal Processing

09/2015 – 06/2017
Shanghai, China

B.Eng.
Shanghai Jiao Tong University
Topics: Mechanical engineering, Computer Science

Experience

since 01/2020
Shanghai, China

Graduate Research Assistant
Department of Rehabilitation Medicine (Ruijin Hospital) - State Key Laboratory of Mechanical Systems and Vibration, Shanghai Jiao Tong University
Developing a framework based on Electroencephalography (EEG) and Electromyography to quantitively track motor recovery and evaluate the effects of non-invasive brain stimulations

05/2019 – 09/2019
Bron, France

Research Fellow
INSERM, French National Institute of Health and Medical Research
Analyzed the cerebral oscillations underlying the meditative practices of Open Presence and Focused Attention; developed semi-automatic EEG signal preprocessing pipeline for meditation research

since 09/2018
Île-de-France, France

Graduate Research Assistant
Signals and Systems Laboratory, UMR 8506, French National Centre for Scientific Research
Identified neural correlates of Focused Attention meditation and problem-solving state; developed a platform guiding meditators based on mental state classification

10/2018 – 05/2019
Île-de-France, France

Teaching Fellow
Laboratory in Mathematics and Computer Science (MICS), CentraleSupélec
Instructor for CIP-EDP courses (Convergence, Integration, Probability and Partial Differential Equation)

08/2018 – 05/2019
Île-de-France, France

Vice President of International Student Union
CentraleSupélec
Organized integration weeks, cultural exchange activities

06/2018 – 08/2018 **Industrial Internship**
Lyon, France *Ma-para, Pharmacy of Carrefour*
Consulted the clients

04/2018 - 05/2018 **Exchange Student**
Cambridge, U.K. *Department of Engineering, University of Cambridge*
Attended cross-disciplinary workshops

10/2017 – 06/2018 **Project Manager**
Paris, France *Tech for Good Explorers, Latitudes & La Condamine*
Created a digital platform to help artists build their careers where professional artists, art lovers and event organizers can interact with each other

05/2016 – 05/2017 **Undergraduate Research Assistant**
Shanghai, China *School of mechanical engineering, Shanghai Jiao Tong University*
Studied water film flooding mechanism on a tilting large plate

Awards

2020 Changjiang Siyuan Scholarship, Shanghai Jiao Tong University, China

2018 Top 10 in Huawei Big Data Challenge in France

2018 Innovative Project Award, CS² Congrès Scientifique du Campus de Saclay, France

2017 Ecoles Centrales Group – Chinese Universities Double Degree Scholarship, China

2016 Honor Student, Shanghai Jiao Tong University, China

2015 Excellent Design, Engineering Design Showcase, Shanghai Jiao Tong University, China

Languages

Chinese: Native proficiency
English: Full professional proficiency
French: Full professional proficiency

Skills

Software Engineering (Python, R, Matlab, Github, Java, C/C++, HTML, CSS)
Scientific Illustration (Adobe Illustrator, MS Office, Latex)
Data Science (5 years)
Biomedical Signal Processing and Analysis (4 years)
Clinical and Translational Research (4 years)

Publications

J. Liu, **G. Tan**, Y. Sheng and H. Liu, "Multiscale transfer spectral entropy for quantifying corticomuscular interaction," in IEEE Journal of Biomedical and Health Informatics.

J. Liu, **G. Tan**, Y. Sheng, J. Wang, W. Lu and H. Liu, "Delay estimation for cortical-muscular interaction via the rate of voxels change," 2020 IEEE International Conference on Systems, Man, and Cybernetics (SMC), Toronto, ON, Canada, 2020, pp. 3897-3902.