ZHIYONG TANG

(86) 15102714813 zy.tang@siat.ac.cn Https://zhiyongtang1998.github.io/

EDUCATION

- **B.S** SOFTWARE ENGINEERING GPA: 89.71% (Rank 1/150) *Sep.2017 – Jun.2021*
  South-central University for Nationalities *Wuhan, China*
- **Visiting Student** SOFTWARE ENGINEERING *Sep.2019 – Mar.2020*
  University of Chester *Chester, UK*

LANGUAGES AND TECHNOLOGIES

- Python; Java; C++; MATLAB; JavaScript; Golang

- TensorFlow; Numpy; Pandas; Web Application; React; Hyperledger Fabric; Git

WORK EXPERIENCE

Research Assistant – *SIAT @ Chinese Academy of Sciences* *Jun.2021 – Present*

- Conducted research on developing a solution of secure personal information management based on different blockchain system (e.g., Hyperledger Fabric)

Frontend Developer – *Task-tag Technology* *Sep.2020 – Jan.2021*

- Conducted research and developed a machine-learning based web application: automated reference tool for essay writing on web

Research Assistant – *MTCC @ University of Chester* *Sep.2019 – Mar.2020*

- Conducted research on characterization of microwave and terahertz dielectric properties of single crystal La2Ti2O7 along one single direction

ACADEMIC PROJECTS

Blockchain Based Personal Data Management System *Jun.2021 – Present*

- Proposed and developed a blockchain based architecture of personal information management system to protect end-users' personal data when malicious service-provider want to get users' information for business purposes without notification.
- The proposed architecture can use the blockchain network to effectively solve the current problem of personal information being leaked by malicious service-provider, compared to the conventional client-server architecture.

IoT for Next-Generation Shuttlecock Sports Training *Mar.2021 – Jun.2021*

- Proposed a XGBoost + Multi-Task-LR algorithm approach for motion recognition and evaluation to make decisions of different shuttlecock actions and levels of different actions (e.g., Elite/Sub-Elite/Amateur). The proposed approach outperforms the baseline approach (e.g., SVM/PCA) in terms of AUC and accuracy.
- Proposed algorithm can be applied to the future youth sports teaching and the daily motion training of professional athletes.

Ultra-low Temperature Millimeter Wave Bandpass Frequency Selective Surface *Feb.2021 – May.2021*

- Improved a high-frequency multi-layer band-pass frequency selective surface filter to realize that the frequency selective surface can work in the high frequency range, which meets the frequency range of 6G communication and exhibits good out-of-band selectivity

MV and THz Dielectric Properties of Single Crystal Along One Single Direction *Sep.2019 – Jun.2020*

- Characterized a single crystal $La_2Ti_2O_7$'s piezoelectric properties and dielectric properties along one specific single direction at high frequencies (e.g., microwave and terahertz).

PUBLICATIONS

- Zhang, M., **Tang, Z.**, Zhang, H., Smith, G., Jiang, Q., Saunders, T., ... & Yan, H. "Characterization of microwave and terahertz dielectric properties of single crystal $La_2Ti_2O_7$ along one single direction" Journal of the European Ceramic Society (2021)

AWARDS AND HONORS

- Received Excellent Graduation Thesis from SCUEC *2021*
- Received National Scholarship for Encouragement from SCUEC *2020 / 2018*
- Received First-Class Scholarship from SCUEC *2020 / 2018*
- Received National Scholarship from Chinese Ministry of Education *2019*
- Received Full Scholarship to visit University of Chester from SCUEC *2019*