**Daoyuan Lai**

*Southern University of Science and Technology (SUSTech)*

*Department of Statistics and Data Science*

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**EDUCATION**

**The University of Hong Kong, Hong Kong, China** Sep. 2020-

Ph.D. student in Statistics

**Southern University of Science and Technology, China** Sep. 2016 -Jun. 2020

B.S. in Statistics

**RESEARCH EXPERIENCE**

**Prof. Zhixiang Lin’s Group (Biomedicine and Data Science)** Sep. 2019-  *Undergraduate Research Assistant*

*The Chinese University of Hong Kong, Department of Statistics*

**Prof. Zhaojian’s Li’s Lab (Pattern Recognition)** Jun. 2019 -Sep. 2019  *Undergraduate Research Assistant (Remote)*

*Michigan State University, Department of Mechanical Engineering*

* Optimizing an efficient online identification methodology with a composite local model structure, conducting a convergence analysis of the algorithm.
* Identifying traffic system’s parameters by implementing a decentralized sparse multitask recursive least square algorithm.

**Prof. Guo-Liang Tian’s Group (Computational Statistics and Optimization)** Sep. 2018-  *Undergraduate Research Assistant SUSTech, Department of Statistics and Data Science*

* Solving the skew-t-normal distribution’s MLE by applying the MM algorithm with significantly less computational cost, compared with Newton’s method.

**Prof. Chenglong Fu’s Lab (Computer Vision)** Jan. 2017 -Feb. 2017

*Undergraduate Research Assistant*

*SUSTech, Department of Mechanical and Energy Engineering*

* Demonstrating environmental features’ estimation by using the random sample consensus (RANSAC) algorithm and contributed to optimizing the protheses’ recognition.

**PUBLICATION**

* Zhang, K., Xiong, C., Zhang, W., Liu, H., **Lai, D.**, Rong, Y., & Fu, C. (2019). Environmental features recognition for lower limb prostheses toward predictive walking. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 27(3), 465-476.

**TEACHING**

* Teaching Assistant: Computational Statistics (Graduate Course) 2019

**AWARDS & HONORS**

* Outstanding Undergraduate Scholarship of SUSTech 2017, 2018,2019
* Dean’s Scholarship (Shuli College, SUSTech) 2018

**STANDARD TEST**

* IELTS Test 7.0 (R: 8.5 L: 8.0 S: 5.5 W:5.5) Aug. 2018

**COMPUTATION SKILLS**

* MATLAB, R, Java, LaTeX, CAD, CAXA