

# Juexiao Zhou

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MS/PhD@Computer Science, KAUST  
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## EDUCATION

### King Abdullah University of Science and Technology

Sep 2020

Computer Science Master

Jeddah, Saudi Arabia

- GPA: 3.93 / 4.00

### Southern University of Science and Technology

Sep 2016 - May 2020

Bioinformatics, Bachelor degree, Biology

Shenzhen, China

- GPA: 3.92 / 4.00 (Top 0.1%) (Core GPA: 3.95)

## RESEARCH

### • Journal

1. Haoyang Li, **Juexiao Zhou**, Yi Zhou, Jieyu Chen, Feng Gao, Ying Xu, Xin Gao. An interpretable computer-aided diagnosis method for periodontitis from panoramic radiographs. *Frontiers in Physiology*, section Computational Physiology and Medicine, doi: 10.3389/fphys.2021.655556.
2. Haoyang Li, **Juexiao Zhou**, Yi Zhou, Jieyu Chen, Feng Gao, Ying Xu, Xin Gao. Automatic and interpretable model for periodontitis diagnosis in panoramic radiographs. *Medical Image Computing and Computer Assisted Interventions* 2020. doi: 10.1007/978-3-030-59713-9\_44
3. Zhongxiao Li, Yisheng Li, Bin Zhang, Yu Li, Yongkang Long, **Juexiao Zhou**, Xudong Zou, Min Zhang, Yuhui Hu, Wei Chen, Xin Gao. DeeReCT-APA: Prediction of Alternative Polyadenylation Site Usage through Deep Learning. *Genomics Proteomics and Bioinformatics*. doi: 10.1016/j.gpb.2020.05.004
4. Longxi Zhou, Zhongxiao Li, **Juexiao Zhou**, Haoyang Li, Yupeng Chen, Yuxin Huang, Dexuan Xie, Lintao Zhao, Ming Fan, Shahrukh Hashmi, Faisal AbdelKareem, Riham Eiada, Xigang Xiao, Lihua Li, Zhaowen Qiu, and Xin Gao. A Rapid, Accurate and Machine-agnostic Segmentation and Quantification Method for CT-based COVID-19 Diagnosis. *Transactions on Medical Imaging*, 2020. doi: 10.1109/TMI.2020.3001810
5. Haoyang Li, **Juexiao Zhou**, Huiyan Sun, Zhaowen Qiu, Xin Gao and Ying Xu. CaMeRe: A novel tool for inference of cancer metabolic reprogramming. *Front. Oncol.*, 2020. doi: 10.3389/fonc.2020.00207
6. Yisheng Li, Bernhard Schaefer, Xudong Zou, Min Zhang, Florian Heyd, Wei Sun, Bin Zhang, Guipeng Li, Weizheng Liang, Yuhao He, **Juexiao Zhou**, Yunfei Li, Liang Fang, Yuhui Hu. Pan-tissue analysis of allelic alternative polyadenylation suggests widespread functional regulation. *Molecular Systems Biology*, 2020. doi: 10.15252/msb.20199367

### • Preprint or under review

1. **Juexiao Zhou**, Bin Zhang, Haoyang Li, Longxi Zhou, Zhongxiao Li, Yongkang Long, Wenkai Han, Mengran Wang, Huanhuan Cui, Wei Chen, Xin Gao. DeeReCT-TSS: A novel meta-learning-based method annotates TSS in multiple cell types based on DNA sequences and RNA-seq data. under review.
2. Longxi Zhou, Yitong Ding, Jiayang Guo, Ming Fan, **Juexiao Zhou**, Haoyang Li, Yujiao Li, Yuxin Huang, Yi Zhao, Yuetan Chu, Kun Wang, Qiming Fang, Xin Gao. Hongxia Zhang; Lihua Li. A Workflow for Automatic, Accurate and Robust Breast Tumor Segmentation on Multi-Database DCE-MRI.

### • Conference

1. Haoyang Li, **Juexiao Zhou**, Xin Gao. Deetal-Perio: DEEP denTAL Advisor for Periodontitis Diagnosis based on Two-step Segmentation of Teeth and Gingiva with Lower-dimensional Features. Poster. DigitalHealth, KAUST, 2020.
2. Haoyang Li, **Juexiao Zhou**, Huiyan Sun, Zhaowen Qiu, Xin Gao and Ying Xu. CaMeRe: A novel tool for inference of cancer metabolic reprogramming. Poster. Advance In Artificial Intelligence, KAUST, 2019.
3. Yongkang Long, **Juexiao Zhou**, Zhongxiao Li, Wei Chen, Xin Gao. DeeRect-PAS—A Deep-Learning based method for Transcriptome-wide PAS Identification. Poster. Advance In Artificial Intelligence, KAUST, 2019.
4. Min Zhang\*, Yisheng Li, **Juexiao Zhou**, Yuhao He\*, Guipeng Li, Liang Fang, Wei Chen. Systematical discovery of cis-elements regulating alternative polyadenylation in mammalian cells. Poster. RNA Biology, CSH Asia, 2019.
5. Min Zhang\*, Yisheng Li, **Juexiao Zhou**, Yuhao He\*, Guipeng Li, Liang Fang, Wei Chen. Systematical discovery of cis-elements regulating alternative polyadenylation in mammalian cells. Poster. Regulatory RNAs, Cell Symposia, Berlin, Germany, May 12-14, 2019.

## MISCELLANEOUS

- **Professional Skills:** Python, R, Matlab, Shell, JavaScript, Linux Server Management, LaTeX, Data Analysis, Deep Learning, Bioinformatics, Website Design
- **Interests:** Professional Photography, Video Making, Art Design