

Juexiao Zhou

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EDUCATION

King Abdullah University of Science and Technology Computer Science Doctor GPA: 4.00 / 4.00	Dec 2021 - Jun 2024 Jeddah, Saudi Arabia
King Abdullah University of Science and Technology Computer Science Master GPA: 3.95 / 4.00	Sep 2020 - Dec 2021 Jeddah, Saudi Arabia
Southern University of Science and Technology Bioinformatics Bachelor	Jun 2016 - Jun 2020 Shenzhen, China

RESEARCH

• Journal

- 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.
- 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
- 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
- Liongxi 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
- 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
- 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

- 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.
- 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.
- Longxi Zhou, Xianglin Meng, Yuxin Huang, Kai Kang, **Juexiao Zhou**, Yuetan Chu, Haoyang Li, Dexuan Xie, Jiannan Zhang, Weizhen Yang, Na Bai, Yi Zhao, Mingyan Zhao, Guohuag Wang, Lawrence Carin, Xigang Xiao, Kaijiang Yu, Zhaowen Qiu, and Xin Gao. Seeing the Unseen: Discovering Interpretable Sub-Visual Abnormalities in CT Scans of COVID-19 Patients and Survivors by Deep Learning. under review.

• Conference

- 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.
- 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.
- 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.
- 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.
- 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