RUITIAN GAO

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EDUCATION

Shanghai Jiao Tong University, Shanghai, China   September 2020 - Present
PhD candidate in Department of Bioinformatics & Biostatistics
Advisor: Prof. Zhangsheng Yu

Shanghai Jiao Tong University, Shanghai, China   September 2016 - June 2020
Bachelor of Science in Bioinformatics
Bachelor of Engineering in Computer Science and Application (minor)

RESEARCH EXPERIENCE

**Malignant liver tumor diagnosis through deep learning model
using multi-phase contrast enhanced CT and clinical data**   March 2019 - Present
Chun-Tsung Program of SJTU

· Proposing a deep learning model with SpatialExtractor-TemporalEncoder-Integration-Classifier
  (STIC) design to classify malignant liver tumors
· Model performance is comparable to the professional level of experienced clinicians

Genomic functional element recognition based on word embedding   September 2018 - March 2019
Participation in Research Program(PRP) of SJTU

· Using deep learning methods (CNN and RNN) to recognize enhancers in human DNA sequence

PROJECTS

Phosyme: an online database focusing on plant synthetic biology   March 2019 - November 2019
Project for International Genetically Engineered Machine Competition(iGEM)

· Phosyme aggregates plant-related synthetic biology information from a variety of databases,
  allowing users to perform multiple tasks in one web page
· Participating the project as a member of SJTU-software
· Gold Award of 2019 iGEM

MetaMap: a visualization of quantitative phylogenetic tree for microbiome July 2018 - August 2018
Summer research project in University of Ottawa

· Creating a website to interactively visualize quantitative phylogenetic tree for microbiome just like a google map

AWARDS

- "Chun-Tsung scholar" endowed by T.D. Lee   2020
- Outstanding Graduate of Shanghai   2020
- Fan Hsu-Chi Scholarship of Shanghai Jiao Tong University   2018
- Shanghai Scholarship for Distinguished Undergrads   2017

SKILLS

Computer	Python(PyTorch, TensorFlow), R, LaTeX, html, css, javascript
Language	Mandarin Chinese, English