

Lijia Yu's resume

Lijia Yu

2020-09-23

Curriculum Vitae

Education

Beijing University of Chemical Technology

B.S. in Information and Computing Sciences

Beijing, China

2010

Thesis: Dyadic wavelet and its application in edge detection

University of Chinese Academy of Sciences

M.S. in Bioinformatics

Beijing, China

2014

Thesis: A multi-omics study for intra-individual divergence of the distributions between mRNA isoforms in mammals

Research Experience

Graduate Research Assistant

Beijing Institute of Genomics, Chinese Academy of Sciences

Beijing, China

2011 - 2014

- Performed computational biology research towards understanding regulation of alternative splicing in human and mouse transcriptome.
- Found EGFR pathway related mutations, aimed to understand the impacts of cancer mutations on EGFR signaling pathway.

Bioinformatician

My Health Gene Technology Co., Ltd.

Beijing, China

2015 - 2016

- Investigated how cancer cells spread to other parts of the body at the single cell level.

Visiting Scientist

University of Alabama at Birmingham

AL, USA

2016 - 2018

- Investigated the role of mitochondria in development of cancer.
- Investigated the evolution of genome architecture and its role in important evolutionary events.
- Detected thrombotic thrombocytopenic purpura related mutations in multiple patients' blood genome.

Professional Experience

Data Scientist, intern

SupStat Inc.

Beijing, China

2014

- Taught R language to beginners.
- Wrote Shiny app demos.
- Converted statistical tutorials from SPSS to R language.

Bioinformatician

My Health Gene Technology Co., Ltd.

Beijing, China

2015 - 2016

- Analyzed whole-exome sequencing data.
- Wrote analysis pipelines of ChIP-seq, single cell DNA-seq and single cell RNA-seq.
- Studied tumor metastasis and wrote research reports.
- Also did case studies to identify the genetic defect causing rare disease.

Teaching Experience

Introduction to R Language for Beginners.

Instructor of R and Data Mining Training Courses at SupStat Inc.

Beijing, China

2014

Computational Biology and Bioinformatics.

Teaching assistant of GBS CB2-201 courses at UAB

AL, USA

2016 - 2017

Selected Publications and Posters

0.0.1 Genetic and epigenetic signals are found predictive to the distribution of intra-individual {-} divergence of alternative splicing.

Poster for 2013 International Conference of Genomics

Qingdao, China

2014

Yu L, Chen B, Zhang Z.

0.0.2 ESCRT-0 complex modulates Rbf mutant cell survival by regulating Rhomboid endosomal trafficking and EGFR signaling.

J Cell Sci. 2016 May 15;129(10):2075-84.

N/A

2016

Sheng Z, Yu L, Zhang T, Pei X, Li X, Zhang Z and Du W.

Disclaimer

This resume was made with the R package [pagedown](#).

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