

LIJIA YU

Currently searching for a PhD student position

Please note that this is a *real* resume, and I'm really looking for a PhD student position at the moment. I made this resume because Yihui asked me if I'd like to test the **pagedown** package with my resume. If you are interested in my background and skills, please feel free to contact me.

EDUCATION

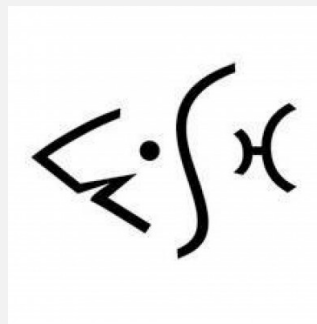
- 2010 • **Beijing University of Chemical Technology**
B.S. in Information and Computing Sciences Beijing, China
Thesis: Dyadic wavelet and its application in edge detection
- 2014 • **University of Chinese Academy of Sciences**
M.S. in Bioinformatics Beijing, China
Thesis: A multi-omics study for intra-individual divergence of the distributions between mRNA isoforms in mammals

RESEARCH EXPERIENCE

- 2011 | 2014 • **Graduate Research Assistant**
Beijing Institute of Genomics, Chinese Academy of Sciences Beijing, China
 - 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.
- 2015 | 2016 • **Bioinformatician**
My Health Gene Technology Co., Ltd. Beijing, China
 - Investigated how cancer cells spread to other parts of the body at the single cell level.
- 2016 | 2018 • **Visiting Scientist**
University of Alabama at Birmingham AL, USA
 - 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

- 2014 • **Data Scientist, intern**
SupStat Inc. Beijing, China
 - Taught R language to beginners.
 - Converted statistical tutorials from SPSS to R language.
 - Wrote Shiny app demos.



CONTACT INFO

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For more information, please contact me via email.

SKILLS

Experienced in statistical analysis, statistical learning models, and optimization methods.

Full experience with next generation sequencing data analysis.

Highly skilled in R, Bash, Perl, Python, LaTeX

*This resume was made with the R package **pagedown**.*

Last updated on 2020-02-29.

2015
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2016



Bioinformatician

My Health Gene Technology Co., Ltd.

📍 Beijing, China

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



TEACHING EXPERIENCE

2014



Introduction to R Language for Beginners.

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

📍 Beijing, China

2016
|
2017



Computational Biology and Bioinformatics.

Teaching assistant of GBS CB2-201 courses at UAB

📍 AL, USA



SELECTED PUBLICATIONS AND POSTERS

2014



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

Yu L., Chen B, Zhang Z.

2016



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.

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