Jianheng Liu, Ph. D.

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Links	Google Scholar Publons Research Gate Linkin

EDUCATION

09/2022 –	Postdoctoral Associate in Pharmacology Weill Cornell Medicine College, New York, U.S. **Advisor:** Prof. Samie R. Jaffrey
08/2017 – 06/2022	Ph.D. in Biochemistry and Molecular Biology School of Life Sciences, Sun Yat-sen University, China **Advisor:** Prof. Rui Zhang
08/2013 – 06/2017	B.S. in Biological Science School of Life Sciences, Sun Yat-sen University, China **Thesis Advisor:** Prof. Rui Zhang

HONORS AND AWARDS

2022, Outstanding Doctoral Dissertation of Sun Yat-sen University

2022, Outstanding Graduate of Sun Yat-sen University

2021, China National Scholarship for Graduate Students

2015 iGEM Jamboree, SYSU-China, Golden medal

2014 iGEM Jamboree, SYSU-China, Bronze medal, Best New Composite Part

SKILLS

Wet lab	● Basic molecular biology ● Basic cell culture ● High throughput sequencing assay design and setup
Computations	● Python, Perl, R, and SQL ● Experienced in NGS data analyses, especially epi-transcriptomic data analyses and pipeline development

- HPC cluster management
- Basic protein structure simulation
- Basic webpage design (frontend, backend, and database)

RESEARCH INTEREST

Discover, dissect, and connect anything amazing in gene expression control. Design, develop, and apply anything crazy in methodology, either by experiment or by computational. I believe that RNA modifications, NGS, single-cell, deep learning, genetics, evolution, synthetic biology, and anything interesting do not solely exist. I am trying to connect them to help us explore the biological world, and I am also trying to transform them into utils to change our life.

PUBLICATIONS AND ABSTRACTS

1. **Jianheng Liu***, Tao Huang*, Wanying Chen*, Chenhui Ding*, Tianxuan Zhao*, Xueni Zhao*, Bing Cai*, Yusen Zhang*, Song Li, Ling Zhang, Maoguang Xue, Xiuju He, Wanzhong Ge#, Canquan Zhou#, Yanwen Xu#, Rui Zhang# (2022) mRNA m5C landscape during animal development and its contribution to translational regulation of maternal mRNAs. ***Nature Communications*** 13(1), 1-13

2. **Jianheng Liu***, Tao Huang*#, Yusen Zhang*, Tianxuan Zhao*, Xueni Zhao, Wanying Chen, Rui Zhang# (2021) Sequence-and structure-selective mRNA m5C methylation by NSUN6 in animals. ***National Science Review***, 8(6), nwaa273.

3. Poster: Identifying NSUN2- and NSUN6- mediated mRNA m5C modification from the noise. RNA Society Annual, May 25-June 5, 2021 (Online)

4. Tao Huang*, Wanying Chen*, **Jianheng Liu***, Nannan Gu, Rui Zhang#. (2019) Genome-wide identification of mRNA 5-methylcytosine in mammals. ***Nature Structural & Molecular Biology***, 26(5), 380-388.
   *Highlighted by Lukas Trixl and Alexandra Lusser on the same issue. "Getting a hold on cytosine methylation in mRNA"

5. Lishi Li*, Yulong Song*, Xinrui Shi, **Jianheng Liu**, Shaolei Xiong, Wanying Chen, Qiang Fu, Zichao Huang, Nannan Gu, Rui Zhang# (2018) The landscape of miRNA editing in animals and its impact on miRNA biogenesis and targeting. ***Genome Research***, 28(1), 132-143.

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