
Ben Liu

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Education

2017 - now University of Kansas, **PhD** in Computer Science
2013 - 2016 Beijing Jiaotong University, **M.E.** in Mechatronics
2009 - 2013 Beijing Jiaotong University,
B.S. in Measuring and Controlling technology and instrument

Awards and honors

2019 KU McNown Fellowship
2018 KU International Student Tuition Grant
2018 Graduate Engineering Association (GEA) Ambassador Fellowship
2014 First Class of Beijing Jiaotong University Graduate Scholarship

Research Area

Bioinformatics and computational biology: Algorithms and data structure, machine learning, and data mining

Non-coding RNA: Structural biology and functional genomics

Research Experience

Searching Non-coding RNA against metagenomic data

Extend sequence length by overlapping short metagenomic reads.

Predict reads by searching path against RNA CM model.

Predict Long-term response to immunotherapy in lung cancer patients

Profile human gut microbiome in taxonomic and functional level.

Predict long-term response to immunotherapy using the taxonomic and functional

Predict Car type via VIN

Predict Car type in an inconsistent dataset using Decision Tree.

Voting to resolve confliction in training data.

Extracurricular Activities and Volunteer Work

2018 - 2020 **Ambassador** of Research & Outreach Committee, GEA, KU
Planned and promoted 2018 Engineering Research Showcase.

2011 - 2012 **Vice president**, Student Society of Science and Technology, BJTU
Managed 2 departments, one to showcase researches and the other one to organize research workshops.

Teaching

EECS 560 Data Structure

(66 students)

Publication

- 1,** Ben Liu, Sirisha Thippabhotla, Jun Zhang, and Cuncong Zhong. DRAGoM: Classification and Quantification of Noncoding RNA in Metagenomic Data. *Frontiers in genetics* 12 (2021).
- 2,** Keisuke Katsushima, Bongyong Lee, Haritha Kunhiraman, Cuncong Zhong, Rabi Murad, Jun Yin, Ben Liu, Alexandra Garancher, Ignacio Gonzalez-Gomez, Hector L Monforte, Stacie Stapleton, Rajeev Vibhakar, Chetan Bettegowda, Robert J Wechsler-Reya, George Jallo, Eric Raabe, Charles G Eberhart, Ranjan J Perera, The long noncoding RNA Inc-HLX-2-7 is oncogenic in Group 3 medulloblastomas, *Neuro-Oncology*, 2020;, noaa235, <https://doi.org/10.1093/neuonc/noaa235>
- 3,** Chengliang Huang, Meizhang Li, Ben Liu, Huanbo Zhu, Qun Dai, Xianming Fan, Kathan Mehta, Chao Huang, Prakash Neupane, Fen Wang, Weijing Sun, Shahid Umar, Cuncong Zhong and Jun Zhang. (2021). Relating Gut Microbiome and Its Modulating Factors to Immunotherapy in Solid Tumors: A Systematic Review. *Frontiers in Oncology* 11(760). doi: 10.3389/fonc.2021.642110.
- 4,** Chau, Justin, Meeta Yadav, Ben Liu, Muhammad Furqan, Qun Dai, Shailesh Shahi, Arnav Gupta, et al. "Prospective Correlation between the Patient Microbiome with Response to and Development of Immune-Mediated Adverse Effects to Immunotherapy in Lung Cancer." *BMC Cancer* 21, no. 1 (2021/07/13 2021): 808