Qingyuan Zhuang   06/2002 | **CPC member**

Nanjing Medical University | Clinical Medicine

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HIGHLIGHTS

- ✧ Received national and provincial scholarships 4 times, including the **National Scholarship**, the Provincial Government Overseas Study Scholarship, and the National Inspirational Scholarship.
- ✧ Undergraduate research experience:
  - ■ **Published 3 SCI papers (2 as co-first author, 1 as first author), 4 under review (2 as first/ co-first author)**
  - ■ Proficient in using Linux, Python, and R to complete the entire process of bioinformatics analysis
  - ■ Proficient in the principles and implementation of mainstream machine learning and deep learning algorithms
  - ■ Independently completed cohort data analysis
  - ■ Proficient in GWAS analysis methods (colocalization, FINEMAP, MR)
  - ■ Experienced in mining public databases such as GBD, NHANES, GEO and TCGA databases
- ✧ Experienced in front-end development; independently built, maintained, and optimized personal homepage
- ✧ Initiator and leader of a social practice team; recruited members, designed systems, and led project advancement
- ✧ Fully funded by the Provincial Government Overseas Study Scholarship (sole recipient among medical students); attended a machine learning course at UCLA and achieved an A grade

EDUCATION

Study	English
GPA：4.11 (5.00)	CET-6：571
Rank：16/347 (4.61%)	CET-4：560

HONORS

Received national and provincial scholarships 4 times

National Scholarship, National Inspirational Scholarship, Provincial Government Full Scholarship for Overseas Study

Received national-level awards twice and provincial-level awards 3 times

Mathematical Modeling	National Undergraduate Mathematical Modeling Competition	Provincial Second Prize
	MCM (USA)	Honourable Mention
Innovation & Entrepreneurship	National Basic Medical Experimental Design Competition	National Bronze Award
	China Youth Volunteer Service Project Competition	National Gold Award
	"Internet +" Innovation and Entrepreneurship Competition	Provincial Second Prize
	"Challenge Cup" Competition	Provincial Silver Gold

ACTIVITIES

- ✧ Participated in 15 school and department-level cultural and sports activities, winning 10 awards.
- ✧ Won the championship in the school debate competition, first place in the department speech competition, and first prize in the long-distance running competition at the school sports meeting
- ✧ Served as the host of the department-level evening party twice.

RESEARCH EXPERIENCES

Published 3 SCI papers (2 as co-first author, 1 as first author), 4 under review (2 as first/ co-first author)

Research on a New Biomarker for Liver Cancer and Its Mechanism   Leader   07/2023-12/2023

✧ Xun S, Li X, **Zhuang Q***, Zhu Y, Qu L (2024). Basement membrane-related lncRNA signature for the prognosis of hepatocellular carcinoma. Heliyon 10: e30439. **(Co–first author 3#)**

✧ Su C, Qu L, **Zhuang Q***, Cai X, Shen P, Zhu Y. Long non-coding RNA SREBF2-AS1 promotes cell progression by increasing SREBF2 expression in Hepatocellular carcinoma. *[Under Review]* （**Co–first author 3#**）

*Independently completed all bioinformatics analyses (TCGA and GEO mining)

Study of Basic Epidemiological Theory and Research Practice   Leader   10/2022-01/2024

✧ **Zhuang Q**, Gu G, Chen J, et al. Global, regional, and national burden of ovarian cancer among young women during 1990-2019. Eur J Cancer Prev. Published online June 4, 2024. （**Co–first author 1#**）

✧ **Zhuang Q**, Tang Z, Wei Y, Liang Y, Wu C. The impact of serum klotho on the cognitive improvement of vitamin D in older adults, NHANES 2011-2014 *[Under Review]*. （**Co–first author 1#**）

✧ Luo X, **Zhuang Q, Q**u L. Mendelian randomization study of the relationship between blood and urine biomarkers and non-alcoholic fatty liver disease in the UK Biobank cohort *[Under review]*. （**Co–first author 2#**）

Dynamic Disease Risk Prediction Model Based   Leader   2023.07-2023.12

✧ Jiang Z, Shao F, Hu J, **Zhuang Q***, Wu Z, Chen T, Li C. Time-weighted blood pressure with cardiovascular risk among patients with or without diabetes. Clin Cardiol. 2024 Jan;47(1):e24213. **(Co-author 2#)**

✧ M. L. Lassen et al.,Myocardial creep and cardiorespiratory motion correction improves diagnostic accuracy of Rubidium-82 cardiac positron emission tomography. Journal of Nuclear Cardiology 30, 2289-2300. **(Chinese Abstract)**

* Completed Cox and RCS analysis and chart plotting (using ggplot); completed article submission and revisions

Integrating Multi-omics Data to Explore the Pathogenesis of Congenital Heart Disease   Leader   2023.08-2023.12

✧ Independently developed the "cell2gwas" package (github: ForrestGump618/celltogwas) to facilitate related analyses.

✧ Preliminary identification suggests that macrophage pyroptosis inhibition may be a potential pathogenic factor.

✧ Collected multi-omics data on heart development, planning to establish a multi-omics database for heart development.

Swallow Nest Acid Combined with Seaweed Polysaccharides Targeting the Gut-Brain Axis Alleviates Menopausal Depression   Leader   2023.07-2023.12

✧ National Basic Medical Experimental Design Competition (National Bronze Award)

Promoting Wound Healing by Utilizing Neuro-Muscular Electrical Stimulation Based on Pyroptosis   Participant   2021.05-2023.06

✧ Zong L, Liu C, Tao X, Tian Q, Zhang M, Zhou X, Shen N, Gong J, **Zhuang Q***, Shen Y, Hu L, Liu W. Neuromuscular electrical stimulation upregulates MDK to enhance macrophage efferocytosis via LRP1 in wound healing [Under Review].

* Detection of cfDNA and Quantification of Circulating NETs

SUPPLEMENT

✧ Independently developed an automatic exam seating system, reducing several days' worth of work to just a few seconds; created a multimedia exam system, open-sourced for use by multiple disciplines.

✧ Volunteered to teach statistics and machine learning to clinical doctors, graduate students, etc., free of charge.

✧ Independently completed peer review for 4 papers, correcting statistical errors in the manuscripts.

✧ Proficient in Mandarin (second-class certificate); Computer Level 3 certified.