

# ZHENXUAN MA

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## EDUCATION

<b>Fudan University</b>	Shanghai, China
Master of Internal Medicine	2018 – 2021
Bachelor of Clinical Medicine	2013 – 2018
<b>London School of Economics and Political Science</b>	London, United Kingdom
English for Academic Purposes (EAP) Pre-sessional Programme, LN909	Jul 2015 – Aug 2015

## RESEARCH EXPERIENCE

- ***Shibo Jiang's Lab, Fudan University*** *Shanghai, China*  
**Research intern**, supervised by Prof. Shibo Jiang Aug 2015 – May 2018  
Conducted in-depth research focusing on the mechanism and refinement of peptide-based fusion inhibitors, with the aim of advancing potential antiviral treatments.  
**Project:** *Creating an artificial tail-anchor as a novel strategy to enhance the potency of peptide-based HIV fusion inhibitors*
  - Pioneered the identification of an artificial structural component that amplifies the anti-HIV effect of fusion inhibitors.
  - Successfully secured and completed the National Basic Science Personnel Training Fund (Project ID: J1210041) Capacity Improvement Project
  - Mastered foundational techniques in molecular biology and immunology through rigorous laboratory work.
- ***Jiming Zhang's Lab, Fudan University*** *Shanghai, China*  
**Master student**, supervised by Prof. Jiming Zhang Aug 2017 – Present  
Engaged in advanced studies under the mentorship of Prof. Jiming Zhang, focusing on the clinical treatment and fundamental research of chronic hepatitis B.  
**Project:** *Thyroid dysfunction incidence and risk factors in Chinese chronic hepatitis B patients treated with pegylated interferon alpha: a long-term follow-up study*
  - Implemented a retrospective observational approach to assess clinical outcomes, leading to the establishment of a predictive model for thyroid dysfunction incidence in pre-treatment patients.
  - Attained proficiency in clinical research design, follow-up study, and advanced statistical analysis methodologies, augmenting expertise in evidence-based medical research.
- ***National Clinical Research Center for Aging and Medicine, Fudan University*** *Shanghai, China*  
**Research assistant** Jul 2021 – Present  
Contribute to pioneering research at the National Clinical Research Center for Aging and Medicine, with a primary focus on understanding the clinical characteristics of prevalent diseases in elderly populations and optimizing their healthcare.  
**Project:** *A pivotal study evaluating the efficacy and safety of Paxlovid in super-elderly patients infected with the Omicron variant.*
  - Established and managed a clinical cohort study comprising elderly individuals, demonstrating expertise in designing and executing comprehensive research protocols.
  - Specialized in the treatment of severe COVID-19 cases in elderly patients, while prioritizing the management of chronic comorbidities, exemplifying proficiency in geriatric healthcare.

## PUBLICATIONS

\* indicates corresponding authors

Comparison of Pegylated Interferon Alfa Therapy in Combination with Tenofovir Alafenamide Fumarate or Tenofovir Disoproxil Fumarate for Treatment of Chronic Hepatitis B Patients. [Jun,2023]

Jingjing He, Yifei Guo, Yao Zhang, Jiajia Han, Jingwen Chen, Yidi Jia, **Zhenxuan Ma**, Jingwen Wu, Shenyang Zhang, Fahong Li, Richeng Mao\*, Jiming Zhang\*.

**Infection and Drug Resistance.** PMID: 37361938

Reduction of Hepatitis B Surface Antigen May Be More Significant in PEGylated Interferon-Alpha Therapy Combined with Nucleotide Analogues than Combined with Nucleoside Analogues in Chronic Hepatitis B Patients: A Propensity Score Matching Study. [Dec,2022]

Yiran Xie, Haoxiang Zhu, Yifei Guo, **Zhenxuan Ma**, Xun Qi, Feifei Yang, Richeng Mao\*, Jiming Zhang\*

**Canadian Journal of Gastroenterology and Hepatology.** PMID: 36531834

- Thyroid dysfunction incidence and risk factors in Chinese chronic hepatitis B patients treated with pegylated interferon alpha: A long-term follow-up study. (**Recommended as a cover article**) [Jun,2022]  
**Zhenxuan Ma**, Yanli Qin, Yidi Jia, Yiran Xie, Xun Qi, Yifei Guo, Jingjing He, Yongmei Zhang, Fahong Li, Jie Yu, Haoxiang Zhu, Feifei Yang, Yu Zhang\*, Richeng Mao\*, Jiming Zhang\*  
**Journal of Viral Hepatitis**. PMID: 35293082
- Hepatitis B e antigen induces the expansion of monocytic myeloid-derived suppressor cells to dampen T-cell function in chronic hepatitis B virus infection. [Apr,2019]  
 Feifei Yang, Xueping Yu, Chenliang Zhou, Richeng Mao, Mengqi Zhu, Haoxiang Zhu, **Zhenxuan Ma**, Bidisha Mitra, Gan Zhao, Yuxian Huang, Haitao Guo\*, Bin Wang\*, Jiming Zhang\*  
**PLoS Pathogens**. PMID: 30998767
- Adding an Artificial Tail—Anchor to a Peptide-Based HIV-1 Fusion Inhibitor for Improvement of Its Potency and Resistance Profile. [Nov,2017]  
 Shan Su, **Zhenxuan Ma**, Chen Hua, Weihua Li, Lu Lu\*, Shibo Jiang\*  
**Molecules**. PMID: 29156603
- Creating an artificial tail anchor as a novel strategy to enhance the potency of peptide-based HIV fusion inhibitors. [Dec,2016]  
 Shan Su, Yun Zhu, Sheng Ye, Qianqian Qi, Shuai Xia, **Zhenxuan Ma**, Fei Yu, Qian Wang, Rongguang Zhang, Shibo Jiang\*, Lu Lu\*  
**Journal of Virology**. PMID: 27795416
- Rational improvement of gp41-targeting HIV-1 fusion inhibitors: an innovatively designed Ile-Asp-Leu tail with alternative conformations. [Sep,2016]  
 Yun Zhu, Shan Su, Lili Qin, Qian Wang, Lei Shi, **Zhenxuan Ma**, Jianchao Tang, Shibo Jiang, Lu Lu\*, Sheng Ye\*, Rongguang Zhang\*  
**Scientific Reports**. PMID: 27666394

## WORK EXPERIENCE

### Huashan Hospital affiliated to Fudan University

Shanghai, China

#### Geriatric Specialist

Jul 2021 – Present

- Engaged in a specialized geriatric training program, demonstrating a high level of expertise in providing comprehensive care for elderly patients.
- Engaged in clinical responsibilities of various positions, including outpatient, inpatient, and emergency department duties.
- Implemented and oversaw enduring chronic disease management protocols for geriatric patients, meticulously capturing critical data for clinical research endeavors.
- Focused on aging-related factors in the elderly population, contributing to a comprehensive understanding of human aging mechanism.

#### Resident

Jul 2018 – Jul 2021

- Completed a rigorous standardized training program for internal medicine residents, gaining proficiency in the diagnosis, treatment, and management of a wide range of medical conditions.
- Delivered patient-centered care, applying evidence-based approaches and participating in complex case discussions to enhance clinical decision-making skills.
- Proficient in diagnosing and treating prevalent infectious diseases, including hepatitis B, tuberculosis, central nervous system infection, fever of unknown origin and rational antibiotic utilization.
- Contributed to research initiatives, including data collection, analysis, and presentation of findings at conferences and in publications.

#### Internship

Jul 2017 – Jul 2018

- Conducted internships within various specialty departments, cultivating a diverse skill set and valuable clinical experience.
- Actively engaged in patient education and communication, fostering trust and ensuring clear understanding of treatment plans.

## SELECTED AWARDS AND HONORS

- Academic Excellent Scholarship, Fudan University 2014/2017/2018
- First prize for excellent paper, Chinese Society of Hepatology annual conference Sep 2020

## JOURNAL REVIEWERS

- International Journal of Peptide Research and Therapeutics Nov 2022

## COURSEWORK AND SKILLS

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- **Curriculums:** Advanced Mathematics, Medical Immunology, Medical Microbiology, Internal Medicine, Surgery, Infectious Diseases, Preventive Medicine, Biostatistics, Programming
- **Experiment:** Cell culture, ELISA, PCR, Western blot, Pseudovirus, Transfection, Flow cytometry
- **Statistics:** Propensity-score matching, Clinical trials, Survival analysis, Logistic regression analysis
- **Hobbies:** Rubik's cube, social sciences, swimming, jogging, badminton
- **Software:** R programming, SPSS, Microsoft Office, Photoshop

## ADDITIONAL ACTIVITIES

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| • Volunteer work in Shanghai Science and Technology Museum                      | May 2014 |
| • Bilingual volunteer work in Cai Yuanpei's former residence                    | Jun 2015 |
| • Compilation work of Shanghai Medical College academician alumnus biography    | Sep 2017 |
| • Science popularization public welfare activity "Face to Face with Scientists" | Nov 2020 |