

# ZHENXUAN MA

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## EDUCATION

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

## WORK EXPERIENCE

<b>Huashan Hospital affiliated to Fudan University</b>	Shanghai, China
<b>Geriatric Specialist</b>	Jul 2021 – Present
Engaged in specialized geriatric training, demonstrating expertise in the holistic care of elderly patients.	
<b>Resident</b>	Jul 2018 – Jul 2021
Completed a rigorous standardized training program for internal medicine residents, gaining proficiency in comprehensive patient management.	
<b>Internship</b>	Jul 2017 – Jul 2018
Conducted internships within various specialty departments, cultivating a diverse skill set and valuable clinical experience.	

## 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\*,

## 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.

## 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

- **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

- 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