

ZHENXUAN MA

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EDUCATION

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

WORK EXPERIENCE

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| Huashan Hospital affiliated to Fudan University | Shanghai, China |
| Geriatric Specialist | Jul 2021 – Present |

- Engaged in specialized geriatric training programs, 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.

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| Resident | Jul 2018 – Jul 2021 |
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- 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.

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| Internship | Jul 2017 – Jul 2018 |
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- 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.

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

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

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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 |