LI XINNONG

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Education

The State University of New York at Buffalo   **Buffalo, NY, United States**
PhD of Pharmaceutical Sciences   Aug 2023 - Present
Current GPA: 3.97/4.0

Master of Pharmacometrics and Personalized Pharmacotherapy   Aug 2021 - May 2023
GPA: 4.0/4.0
Main Courses: Advanced Pharmacokinetics, Population PK/PD Modeling, Computational Basis of Pharmacometrics

Shenyang Pharmaceutical University   **Shenyang, Liaoning, China**
Bachelor of Pharmacy   Sep 2016 - Jul 2020
GPA: 3.66/4.0
Main Courses: Pharmacology, Pharmaceutics, Statistics

Research & Work Experiences

The State University of New York at Buffalo   **Buffalo, NY, United States**
PhD Student of Pharmaceutical Sciences at Dr. Robert Bies Lab   Sep 2022 - Present

Female Reproductive Tract PBPK Model Project

- Developed and expanded the female reproductive tract PBPK model platform using R mrgSolve package

- Participated in the development and optimization R Shiny App for the female reproductive tract PBPK model

Machine Learning Enhanced Nonlinear Mixed-effect Model Selection Project

- Participated in the test, application and optimization of pyDarwin toolbox in automated nonlinear mixed-effect model building

Drug Release Kinetic Model of Long-acting IUD

- Established *in vitro* drug release kinetic model of Levonorgestrel IUD (Mirena, Kyleena, Skyla) using python

Master Student of Pharmacometrics at Dr. Robert Bies Lab
HPTN 083 Population PK Model Project   Jan 2022 – Aug 2022

- Estimated Cabotegravir long-acting response in preventing HIV by calculating AUC, PAIC timeframe based on population pharmacokinetic model

Rilpivirine PBPK Model Project

- Collaborated with senior researcher to establish the Rilpivirine PBPK model which is applied to predict the maternal pharmacokinetics

University of Minnesota   **Minneapolis, MN, United States**
Student Intern at Dr. Karunya Kandimalla Lab   Jan 2020 - June 2020

- Established a four-compartment pharmacokinetic model to evaluate the effect of Aβ40 exposure on Blood- Brain glucose transfer in Alzheimer's Disease

Center for Quantitative Clinical Pharmacology   **Shenyang, Liaoning, China**
Research Assistant   May 2019 - Jan 2020

- Conducted literature review to summarize data and equations, established Azithromycin PBPK model using PK-Sim and MoBi, and wrote the manuscript

Publication

- pyDarwin Machine Learning Algorithms Application and Comparison in Nonlinear Mixed-effect Model Selection and Optimization. **Li X**, Sale M, Nieforth K, Craig J, Wang F, Solit D, Feng K, Hu M, Bies R, Zhao L. (2024, JPKPD)

- pyDarwin: A Machine Learning Enhanced Automated Nonlinear Mixed-Effect Model Selection Toolbox. **Li X**, Sale M, Nieforth K, Bigos KL, Craig J, Wang F, Feng K, Hu M, Bies R, Zhao L. (2024, Clinical Phamrcology & Therapeutics)

- PERFORMANCE OF MACHINE LEARNING ALGORITHM FOR MODEL SELECTION. **Li X**, Sale M, Nieforth K, Craig J, Wang F, Solit D, Feng K, Hu M, Bies R, Zhao L. (2024, PAGE Poster)

- PHYSIOLOGICALLY BASED PHARMACOKINETIC MODEL OF DRUG DELIVERY IN THE FEMALE REPRODUCTIVE TRACT [ASCPT Poster]. **X. Li**, T. Straubinger, G. Valicheria, Z. Zhang, S. Achilles, M. Donnelly, L. Zhao, E. Tsakalozou, B. Chen, L. Rohan, R. Bies (2023, ASCPT Presidential Trainee Poster)

- DEVELOPMENT OF GRAPHICAL INTERFACE IN R SHINY FOR PBPK MODEL-BASED PREDICTION AND SIMULATION OF DRUG DELIVERY IN THE FEMALE REPRODUCTIVE TRACT. T. Straubinger, **X. Li**, G. Valicheria, Z. Zhang, S. Achilles, M. Donnelly, L. Zhao, E. Tsakalozou, B. Chen, L. Rohan, R. Bies. (2023, ASCPT Poster)

- PBPK MODEL PREDICTION OF LONG-ACTING CAB AND RPV CONCENTRATIONS IN PREGNANCY. Y. Yu, A. Bekker, **X. Li**, R. Bies, R, Scott. (2023, CROI Poster)

Scholarships

- Presidential Trainee Award of ASCPT 2024	Mar 2024
- Marilyn Morris Excellence in Pharmaceutical Sciences Fellowship Award	Nov 2023
- Liaoning Provincial Government Scholarship	Nov 2019
- China National Scholarship	Nov 2018

Teaching

- FDA Female Reproductive Tract PBPK Shiny App Tutorial	April 2024
- PyDarwin Toolbox Application in Population PK Modeling, Buffalo, PHC610	April 2024

Skills & Interests

- **Technical:** R, Python, C++, Matlab
- **Modeling Tools:** ADAPT5, Phoenix WinNonLin, NONMEM
- **Interest:** Writing Novels, Playing Softball, BJJ, Snowboarding