

# Brief about myself

## • Education

- 2014-2017: **PhD -Clinical Pharmacy**, Zhongshan Hospital, School of Medicine, Fudan University.
- 2016: **Visiting Scholar** in PITT.

## • Work experience

- 2017-2018: **Lecturer & Clinical Pharmacist**, Zhongshan Hospital, Fudan University.
- 2018-2019: **Postdoc Fellow**, School of Pharmacy, University of Pittsburgh.
- 2019- : **Assistant Professor**, School of Pharmacy, University of Pittsburgh.

## • Key skills:

- Solid working experience in **clinical research**, include both **prospective** and **retrospective** clinical studies.
- Extensive experience in **clinical data mining** and **outcomes analysis**.
- Research experience in **system pharmacology** and **PharmacoAnalytics prediction**.



# Research experience highlights

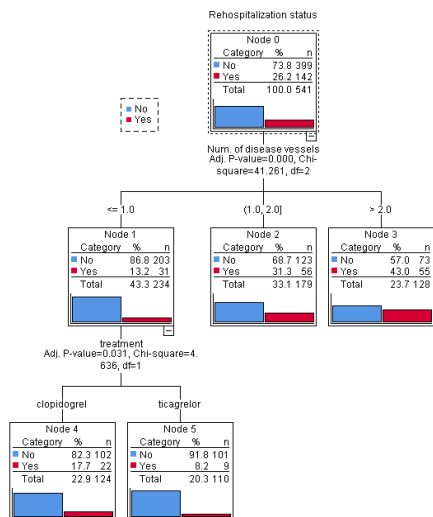
## 1. Clinical research

Retrospective & prospective studies (involved over 800 CAD patients undergoing PCI)

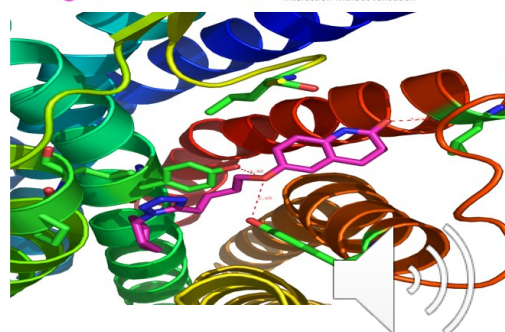
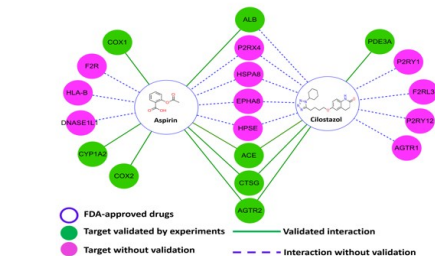


## 2. Data sciences

Machine-learning, Outcome Analyses



## 3. On-target/off-targets drug-drug interactions by PharmacAnalytics PSP prediction



# Research projects

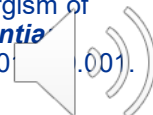
---

1. Cilostazol as an alternative to Aspirin in patients undergoing Percutaneous Coronary Intervention (PCI).
2. Efficacy assessment of Ticagrelor versus Clopidogrel in Chinese patients undergoing PCI.
3. Clinical data mining to identify the optimal combinations for Alzheimer's Disease (AD) patients with common comorbidities.
4. Childhood evaluation of liability to Substance Use Disorder (SUD).
5. Investigating the impact of antidepressants use on clinical outcomes post Acute Myocardial Infarction (AMI).



# Publications

- **Ying Xue**, Zi Wang, Hongyi Wu, Xiaoye Li, Jiahui Chen, Qianzhou Lv. Cilostazol Increases Adenosine Plasma Concentration in Patients with Acute Coronary Syndrome. *Journal of Pharmacy and Therapeutics*. 2020;00:1-5.
- **Ying Xue**<sup>+</sup>, Ziheng Hu<sup>+</sup>, Yankang Jing, Hongyi Wu, Xiaoyeli, Junmei Wang, Amy Seybert, Xiangqun Xie, Qianzhou Lv. Efficacy assessment of ticagrelor versus clopidogrel in Chinese patients with acute coronary syndrome undergoing percutaneous coronary intervention by data mining and machine-learning decision tree approaches. *Journal of Pharmacy and Therapeutics*. 2020 Jul 6. doi: 10.1111/jcpt.13172.
- **Ying Xue**<sup>+</sup>, Zhiwei Feng<sup>+</sup>, Xiaoye Li<sup>+</sup>, Ziheng Hu, Qing Xu, Zi Wang, Jiahui Chen, Hongtao Shi, Qibing Wang, Hongyi Wu, Xiangqun Xie, Qianzhou Lv. The efficacy and safety of cilostazol as an alternative to aspirin after coronary stent implantation in patients with intolerance to aspirin: A combination of clinical study and computational system pharmacology analysis. *Acta Pharmacologica Sinica*. 2018;39(2):205-212.
- Yankang Jing<sup>+</sup>, Ziheng Hu<sup>+</sup>, Peihao Fan, **Ying Xue**, Lirong Wang, Levent Kirisci, Ralph E Tarter, Junmei Wang, Michael Vanyukov, Xiang-Qun Xie. Analysis of substance use and its outcomes by machine learning I. Childhood evaluation of liability to substance use disorder. *Drug and Alcohol Dependence*. 2020 Jan 1;206:107605.
- Ziheng Hu<sup>+</sup>, Yankang Jing<sup>+</sup>, **Ying Xue**, Peihao Fan, Michael Vanyukov, Levent Kirisci, Junmei Wang, Ralph E. Tarter and Xiang-Qun Xie. Analysis of substance use and its outcomes by machine learning: II. Derivation and prediction of the trajectory of substance use severity. *Drug and Alcohol Dependence*. 2020 Jan 1;206:107604.
- Ziheng Hu, Lirong Wang, Shifan Ma, Levent Kirisci, Zhiwei Feng, **Ying Xue**, William E. Klunk, M. Ilyas Kamboh, Robert A. Sweet, James Becker, Qianzhou Lv, Oscar L. Lopez, Xiang-Qun Xie. Synergism of antihypertensives and cholinesterase inhibitors in Alzheimers disease. *Alzheimer's and Dementia Translational Research & Clinical Interventions*. 2018 Oct 14;4:542-555. doi:10.1016/j.trci.2018.09.001.



# Brief Description about Yourself

I'm currently an Assistant Professor in the Department of Pharmacy and Therapeutics at the University of Pittsburgh School of Pharmacy. I earned my PhD from the Fudan University, School of Medicine (China) in 2017, and completed my clinical training there.

My research interests focus on clinical outcomes research and data mining analytics. In addition to my clinical pharmacy working experience, I has acquired extensive expertise in Pharmacometrics, System Pharmacology and PharmacoAnalytics prediction. Based on those multi-disciplinary training and working experience, I has developed a unique combination of skill sets in better interpreting/understanding patient outcomes in the context of both clinical practice and pharmaceutical sciences.

Current research interests include personalized medication by conducting outcomes pharmacoanalytics and identifying “good” / “bad” combinations of medications in order to improve clinical outcomes for better therapeutics. My research work is aimed to facilitate clinical decision-making to improve the efficiency, quality, and safety of medication uses in health-systems.

I have published **over 20 papers** in scholarly journals with international circulation in the past several years, including *Cell*, *Nature Communications*, *Briefings in Bioinformatics*, *Frontiers in Pharmacology*, *Journal of Pharmacy and Therapeutics*, *Drug Alcohol Depend*, *Acta Pharmacologica Sinica*, etc.