

Shuang (Vika) Chen

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<https://vikachen.github.io/>

My research interests span a wide spectrum of topics in **Health Economics**, with a specific emphasis on **Pharmaceutical Economics and Policy**, **Drug Pricing** and **Comparative Effectiveness**.

EDUCATION

Geisel School of Medicine at Dartmouth College, Hanover, NH

Jul. 2016—Jun. 2017

Master of Public Health, Health Policy & Clinical Practice

- **Coursework:** Biostatistics, Epidemiology, Inferential Method & Systematic Review, Strategic & Financial Management, Decision making & Cost-effectiveness Analysis, Medical Care & Corporation (Tuck Business School)
- **Capstone:** The Need for Expedited Approval: Policy Recommendation for Oncology and Orphan Drugs in China

Fox School of Business at Temple University, Philadelphia, PA

Jan. 2014—Dec. 2014

Exchange Program, International Business Administration(IBA)

- **Coursework:** International Monetary Economics, Probability & Statistics, International Business, International Marketing, Introduction to Health Services Systems, Human Biology

China Pharmaceutical University, Nanjing, China

Sep. 2012—Jun. 2016

Bachelor of Science, International Economics and Pharmaceutical Science

- **Coursework:** Linear Algebra, Analytical Chemistry & Pharmaceutical Analysis, Pharmacology, Statistics, Macro-Economics, Micro-Economics, Managerial Accounting, GMP

RESEARCH PROJECTS

- ✚ **The Need for Expedited Approval: Policy Recommendation for Oncology and Orphan Drugs in China**
 - Conducted policy systematic review to analyze how expedited approvals apply on oncology and orphan drugs in the U.S.
 - Assessed included studies quality and synthesized the findings
 - Proposed recommendations that include developing a dialogue mechanism between sponsors and CFDA
 - Wrote the capstone paper and presented the final work
- ✚ **Cost Effectiveness of Childhood Nutritional Interventions in Developing Countries: A Systematic Review**
 - Identified 3387 studies by searching the Cochrane, MEDLINE, EMBASE, Google Scholar, Web of Science, and Clinical trials.gov.
 - Evaluated eligibility of studies and extracted information from qualified studies
 - Assessed the methodological quality by using Evers 2005 checklist and designing a visual table
- ✚ **Pharmacological Interventions for Alcohol Abuse**
 - Created a Markov model to determine which pharmacological intervention for alcohol abuse was most effective
 - Compared the effectiveness of Topiramate, Acamprosate, Disulfiram, Naltrexone and no treatment at increasing the number of non-drinking days
 - Reviewed the literature to obtain probability data for analyze
- ✚ **Evaluation of the Use of Long Acting Opioids for Post-Operative Pain Control in Orthopaedic Surgery**
 - Pointed out the appropriate usage of Long Acting Opioids (LAOs) on post arthroplasty patients based on equivocal nature of the evidence for their use and strong evidence for risk
 - Reviewed the medical literature with a focus on mechanism and adverse effects
 - Collaborated with physicians to learn how LAOs and SAOs were applied in actual clinical settings

EMPLOYMENT EXPERIENCE

QuintilesIMS, Shanghai, China

Aug. 2017—Current

PTA, Management Consulting

- Supported a project to launch a drug (a PCSK9 inhibitor) in China market; conducted primary and secondary research to anticipate the potential market share; participated in expert and patient interviews and composed transcripts; collaborated with team members to synthesize data and findings
- Built a model and facilitated quantitative analysis of in-depth survey with physicians; performed a pre-test of physician survey in key Shanghai hospitals to modify questionnaires before nationwide distribution

Dartmouth-Hitchcock Medical Center, Lebanon, NH

Mar. 2017—May. 2017

MPH Intern, Health Insurance Analysis

- Analyzed employee insurance and wellness data including expense, claims, health risk, engagement, etc.; created a dashboard illustrating the trending and correlation of the data and recommended actions
- Wrote a report examining the program for employee wellness and safety, and identifying gaps in services where they could build out the Total Worker Health programming.

Pfizer Inc., Shanghai, China

Mar. 2016—Jul. 2016

Intern, Business Strategy & Operation

- Supported Pfizer Innovation Health 2017 operation plan, delivering business plan and forecasting strategy and budget to global office; worked with cross-function teams to perform industry, competition and growth analyses for 14 products in five areas, including Prevenar13, a vaccine launched in China in early 2017
- Built a forecast model of Inlyta sales to evaluate the performance of sales representatives
- Designed and composed 2016 Pfizer Oncology Great China Q1 Scorecard/Newsletter, helping 400+ employees to have a better understanding of other department work

Sinopharm Weiqida Pharmaceutical Co., Datong, China

Jul. 2015—Aug. 2015

Summer Intern, Quality Control (QC)

- Learned the process of fermentation and extraction of Clavulanate acid and Clavulanate potassium production
- Tested samples from all phases of manufacturing to determine if the substance meets the standards and honed lab skills with chemical testing equipments and testing processes

Gauze, Philadelphia, PA (a health-tech start-up focus on global hospitals database)

Sep. 2014—Dec. 2014

Intern, Marketing Research

- Researched, analyzed and validated healthcare facility information from 500 Chinese hospitals to expand the database for travelers in need of medical care and international medical tourists
- Wrote a report examining the differences between hospital industries in China and U.S., and providing suggestions

MassMutual Asia Ltd., Hong Kong

Jan. 2013

Winter Intern, Financial Management

- Participated in a NGO creation competition; performed financial analysis in NGO creation
- Participated in a Business Strategic Management Program in University of Hong Kong

HONORS & AWARDS

2016—2017 The Dartmouth Institute at Dartmouth College, selected student representative on official website
2012—2013 China Pharmaceutical University, Third-Class Scholarship (20%)
2012—2013 China Pharmaceutical University, Merit-based Honor (5%)
2012—2013 China Pharmaceutical University Student Union, Excellent Member (Term Award)

PERSONAL

Language: Native Chinese, Fluent English, Basic Portuguese

Skills: Stata, Microsoft Office (Word, Excel, PowerPoint)

Volunteering: Pharmaceutical information service in Shangyuantang Pharmacy, Nanjing, China

Interests: hiking, kayaking, skiing