
EDUCATION

Yale School of Public Health*MPH - Health Policy and Management*

Relevant Coursework: Health Economics and Public Policy, Hospital Strategy, Healthcare Systems

New Haven, CT*Aug 2025 - May 2027***Yale University***B.A. Economics with Certificate in Data Science*

Relevant Coursework: Machine Learning (Python), Computer Science (Java), Econometrics, Data Analysis (R), Probability Theory, Theory of Stats, Multivariate Stats, Linear Models, Micro/Macroeconomics, Financial Economics

New Haven, CT*Aug 2021 - Dec 2025***National Taiwan University***Certificate in Advanced Language Study in Chinese* | Fully funded by Yale Richard U. Light Fellowship**Taipei, Taiwan***Jun 2022 - Aug 2022*

PUBLICATIONS

- Kang, T.; Erbay, T. G.; **Xu, K. L.**; Gallego, G. M.; Burtea, A.; Nair, S. K.; Patman, R. L.; Zhou R.; Sutton, S. C.; McAlpine, I. J.; Liu, P.; Engle, K. M. *ACS Catal.* 2020, 10, 13075–13083.
- Derosa, J. †; Kang, T. †; Tran, V. T.; Wisniewski, S. R.; Karunananda, M. K.; Jenkins, T. C.; **Xu, K. L.**; Engle, K. M. *Angew. Chem.* 2020, 132, 1217–1221; *Angew. Chem. Int. Ed.* 2020, 59, 1201–1205.

EXPERIENCE

Pyramid Healthcare*Healthcare Administration Intern***Norwalk, CT***May 2025 to Aug 2025*

- Automated and deployed grievance reporting system for 80+ rehabilitation facilities across 8 states for Compliance Department
- Shadowed Executive Director at HFC Norwalk in strategizing business plan to pilot new nutritional therapy program
- Created PowerBI performance metric dashboard to track BASIS-24 clinical metrics for quality improvement
- Built data extraction pipeline in Python to populate searchable database of company policies and procedures

Community Health Center Association of Connecticut (CHC/ACT)*Healthcare Data Analyst Intern***Cheshire, CT***May 2025 to Aug 2025*

- Programmed scalable data automation pipeline in Python to analyze and visualize hospital data from 18+ FQHCs in CT
- Developed interactive Power BI dashboard of financial performance metrics, delivering insights directly to health center CEOs

Yale School of Public Health*Health Policy Modeling Research Assistant***New Haven, CT***May 2024 to Nov 2024*

- Developed probabilistic microsimulation model in R to analyze health impacts of tobacco policy on vulnerable populations
- Performed extensive data cleaning and manipulation on big data, consolidated results using data visualization
- Programmed first Markov model to incorporate transition probability data on e-cigarette usage

Project Art of Learning*Founder and President***San Diego, CA***Jan. 2019 to Present*

- Founded global 501(c)(3) nonprofit that provides free online STEM education to underserved communities
- Expanded client base to China, Mexico, Ukraine, Jordan, Syria, Puerto Rico, and Philippines
- Led a team of 20+ tutors to provide 500+ individual sessions of tutoring to 300+ students globally
- Secured 5 partnerships with educational institutes via cold-emailing 100+ organizations, expanding client base by 10x
- Partners include International Rescue Committee, Slavid Refugee Organization, Universidad de Puerto Rico, etc.
- Developed and taught computer science curriculum for students at Barnard School (Title I)

The Scripps Research Institute*Drug Discovery Research Intern***San Diego, CA***June 2019 to Aug. 2020*

- Discovered a novel chemical method, adopted by Pfizer, to synthesize building blocks for pharmaceuticals
- Designed, performed, and improved 100+ organic chemistry experiments to optimize reaction efficiency and yield
- Used statistical parameterization and multiple regression analysis to model and predict reaction outcomes
- Co-authored 2 papers and presented findings to 100+ faculty members at the Scripps Research Symposium

LEADERSHIP

United Church of Westville (UCW)*Prescillitator (President)***New Haven, CT***Sept. 2022 - Present*

- Led leadership team (30+ servants), managed all aspects of planning and execution for church-wide events (100+ members)
- Spearheaded 4 church-wide retreat events, led Bible studies, prayer meetings, and preached to congregation monthly
- Led Christ in the City outreach group to build and maintain long-term relationships with the local homeless community

ADDITIONAL

Skills: R, Python, PowerBI, Java, SQL, Github, Microsoft Excel, Powerpoint, Word, Creative Writing, Public Speaking**Interests:** Jesus, Homeless Ministry, Soccer, Ultramarathon/Marathon Running, Open Water Swimming, Working Out, Hiking