

崔淇

助理教授

上海交通大学 | qicui@sjtu.edu.cn

主要研究方向

化学教育，高等教育，未来教育，教育数字化，社交网络分析

教育及工作经历

加州大学圣地亚哥分校，美国	06/2021 - 04/2024
博士后研究员 化学教育，生物教育	
导师：Stanley M. Lo	
奥本大学，美国	08/2014 - 05/2021
博士 主修：化学教育 辅修：统计学	
导师：Jordan Harshman	
中国科学院上海有机化学研究所	08/2011 - 07/2014
硕士 有机化学	
导师：丁奎岭院士	
兰州大学	08/2007 - 07/2011
本科 化学	

科研项目

- Asynchronous Discussions to Engage Students in Scientific Argumentation, 美国国家科学基金 #2022975, 子课题负责人.
- Examining The Roles of STEM Teaching Faculty in Advancing the Use of Evidence-based Teaching Practices at Research Universities 美国国家科学基金 DUE-1821724, 子课题负责人.
- Assessing the Impact of Teaching Faculty in STEM Institutional Transformation 美国国家科学基金 DUE-1612258, 子课题负责人.
- Building Assessment Capacity in Chemistry Education - The Chemistry Instrument Review and Assessment Library Project 美国国家科学基金 #1915343, 子课题负责人.

学术论文

- Cui, Q., Harshman, J., Komperda, R., Validity and Reliability of Survey Data: Key to Empowering Chemical Health and Safety Research. ACS Chemical Health and Safety, 2024, (被选为 ACS Editors' Choice)

- **Cui, Q.**, Harshman, J., Reforming doctoral education through the lens of professional socialization to train the next generation of chemists. *JACS Au*, 2023, 3, 2, 409–418.
- **Cui, Q.**, Le, J. P., Chai, A., Lee, A., Sheth, J., Banh, K., Pahal, P., Ly, K., Lo, S. M., discourseGT: An R package to analyze discourse networks in educational contexts. *Journal of Open-Source Software*, 2023, 8(88), 5143. (此 R 语言包裹目前已累计超过 2.2 万下载量)
- **Cui, Q.**, Harshman, J., Qualitative investigation to identify the knowledge and skills that U.S.-trained doctoral chemists require in typical chemistry positions. *Journal of Chemical Education*, 2020, 97(5), 1247-1255.
- **Cui, Q.**, Yao, W., Zhang, C., Advances on pharmacology effect of Schisandra Chinensis and its active composition. *Journal of Esophageal Disease*, 2010, 28(4), 318-320.
- Xu, W., Wang, Q., **Cui, Q.** and Xu, R., MicroRNA Polymorphisms, MicroRNA Pharmacogenomics and Cancer Susceptibility, *Current Pharmacogenomics and Personalized Medicine*, 2010, 8(4), 289-305.

学术报告

SABER West, Irvine, CA

Cui, Q., Grunspan, D. Z., Owens, M. T., Lo, S. M., (2023), Investigating the relationships among departmental teaching influence networks, faculty's self-reported approaches to teaching, and their actual adoption of evidence-based instructional practices.

Biennial Conference on Chemical Education, West Lafayette, IN

Cui, Q., Swarat, S. L., Drane, D. L., Baiduc, R. R., Light, G. J., Lo, S. M. (2022), An empirical investigation of the relationships among conceptions of teaching, instructional practices, and student outcomes.

Society for the Advancement of Biology Education Research, Minneapolis, MN

Cui, Q., Wilton, M., Maloy, J., Jones, L. B., Sato, B. K., Lo, S. M., Grunspan, D. Z. (2022), Investigating how departmental discussion networks relate to faculty's approaches to teaching and their use of evidence-based instructional practices.

Tennessee STEM Education Research Conference, Murfreesboro, TN

Cui, Q., Harshman, J. (2020), Developing a measure to assess the knowledge and skills that are required for U.S. doctoral chemists.

American Chemical Society National Meeting and Expositions, Orlando, FL

Cui, Q., Harshman, J. (2019), Identifying the knowledge and skills that chemists require in workplace-survey development.

Biennial Conference on Chemical Education, Notre Dame, IN

Cui, Q., Harshman, J. (2018), Identifying the knowledge and skills that chemists require in workplace (Qualitative study)

教学经历

研究生课程：中美化学教育测量与评价工作坊-北京师范大学 10/2022-01/2023

本科生课程：Entering research-加州大学圣地亚哥分校 01/2022-04/2022

Fundamental Chemistry I, Fundamental Chemistry II, General Chemistry for Scientists I, Honors Chemistry I, General Chemistry I, General Chemistry II-奥本大学 08/2014-05/2021

期刊评审

Journal of Chemical Education

CBE-Life Science Education

其他学术活动

South's BEST Robotics competition judge 美国南部中学生机器人大赛评委 (共 18 个州参赛) 2017 & 2018
Greater East Alabama Regional Science and Engineering Fair judge 阿拉巴马州科学与工程展会评委 2018

证书

SAS Base Programming (SAS 初级编程证书)

SAS Advanced Programming (SAS 高级编程证书)

SAS Statistical Business Analysis: Regression and Modeling (SAS 回归和建模证书)

Data Science Summer School-Hertie School Data Science Lab

获奖情况

优秀学生会干部 2012 & 2013

中科院科研创新学生奖 2011

国家三等奖学金 2010

优秀学生标兵 2009

国家一等奖学金 2009

国家基地奖学金 2008