

# 崔淇

## 助理教授

上海交通大学 | qicui@sjtu.edu.cn

## 主要研究方向

人工智能+教育, 化学教育, STEM 教育

## 工作经历

### 上海交通大学

05/2024 - 至今

助理教授

### University of California, San Diego

06/2021 - 04/2024

博士后研究员 | 化学教育, 生物教育

导师: Stanley M. Lo

## 教育经历

### Auburn University

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

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- **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, 31, 121-126. (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

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**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

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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

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Journal of Chemical Education

CBE-Life Science Education

Disciplinary and Interdisciplinary Science Education Research

## 其他学术活动

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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

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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