Xiaoqing Kong

Educational Background

Ph.D.	**Science Education**	**University of Virginia**	**2014**
	Dissertation: *Trajectory of Medical Students' Research Interest by Gender, Race/Ethnicity, Research Experience, and Program: A Longitudinal Analysis*		
M.Ed.	**Research, Statistics and Evaluation**	**University of Virginia**	**2010**
B.A.	**English Education**	**Shanghai International Studies University** Shanghai, China	**2009**

Research and Teaching Experience

Content Analyst — **Quantitative Research, Hanover Research** — **2014 July-Present**
Conducting quantitative analysis on large-scale data for K-12 school districts to provide data-based evidence

Graduate Research Assistant — **Curry School of Education, University of Virginia** — **2011-2014 June**
Advisor: Robert H. Tai, Ed.D., Associate Professor
Conducted research on multiple grant-funded projects in science education by applying advanced quantitative and qualitative methods

Research Assistant — **School of Engineering & Applied Science, Univ. of Virginia** — **2010-2011**
Advisor: Joanne M. Cohoon, Ph.D., Associate Professor
Worked on the evaluation of a volunteer computing program

Research Assistant — **Social Development Lab, University of Virginia** — **2010-2011**
Director: Sara E. Rimm-Kaufman, Ph.D., Professor
Coded videos of elementary school mathematics classrooms with the Mathematics Scan (M-Scan) and the Time Sampling Measure

Research Assistant — **Center for Advanced Study of Teaching and Learning, U.Va.** — **2010**
Director: Robert C. Pianta, Ph.D., Professor
Coded videos of upper-elementary and secondary school classrooms with the Classroom Assessment Scoring System (CLASS)

Chinese Language Tutor — **Summer Language Institute** — **2010**
University of Virginia

Part-Time English Teacher — **LEARNING English Language Training Center** — **2008-2009**
Shanghai, China

Peer-Reviewed Publications

Kong, X., Dabney, K. P., & Tai, R. H. (2014). The association between science summer camps and career interest in science and engineering. *International Journal of Science Education, 4*(1), 54-65. doi: 10.1080/21548455.2012.760856

Kong, X., Chakraverty, D., Jeffe, D. B., Andriole, D. A., Wathington, H. D., & Tai, R. H. (2013). How do interaction experiences influence doctoral students' academic pursuits in biomedical research? *Bulletin of Science, Technology & Society, 33*(3-4), 76-84. doi: 10.1177/0270467613516754

Wyss, V. L., Dolenc, N. R., **Kong, X.**, & Tai, R. H. (2013). Time on text and science achievement for high school biology students. *American Secondary Education, 41*(2), 49-59.

Peer-Reviewed Manuscripts in Progress

Kong, X., Tai, R. H., & Fan, X. (In Progress). Students' views and perceptions about learning science and their career aspirations in STEM.

Kong, X., Jeffe, D. B., Read, D. M., Andriole, D. A., Wathington, H. D., & Tai, R. H. (In Progress). Factors of medical school students' decisions to study medicine: Differences by gender and race/ethnicity.

Ryoo, J., **Kong, X.**, Almarode, J. T., Maltese, A. V., & Tai, R. H. (In Progress). Activity-based science learning style preferences.

Tai, R. H., Read, D. M., Mitchell, C. E., **Kong, X.**, Jeffe, D. B., Andriole, D. A., & Wathington, H. D. (In Progress). Laboratory research apprenticeships for high school students and entry in MD/PhD programs.

Peer-Reviewed Research Conference Presentations

Kong, X., Tai, R. H., & Fan, X. (2014, April). *Parental involvement and students' science achievement: A longitudinal study*. Paper presented at the annual meeting of American Education Research Association, Philadelphia, Pennsylvania.

Kong, X., Chakraverty, D., Dolenc, N. R., Jeffe, D. B., Andriole, D. A., Wathington, H. D., & Tai, R. H. (2014, April). *Interaction influences on doctoral students' academic pursuits in biomedical research: An exploratory qualitative study*. Paper presented at the annual meeting of American Education Research Association, Philadelphia, Pennsylvania.

Read, D. M., Tai, R. H., Mitchell, C. E., Hall, M. T., **Kong, X.**, Jeffe, D. B., Andriole, D. A., Wathington, H. D. (2014, April). *Medical students' early interaction with research: Exposure and experiences that matter*. Paper presented at the annual meeting of American Education Research Association, Philadelphia, Pennsylvania.

Kong, X., Almarode, J. T., Maltese, A. V., & Tai, R. H. (2014, March-April). *Activity-based science learning style preferences*. Paper presented at the annual meeting of National Association for Research in Science Teaching, Pittsburgh, Pennsylvania.

Dolenc, N. R., **Kong, X.**, & Tai, R. H. (2014, March-April). *Success on a losing robotics team*. Paper presented at the annual meeting of National Association for Research in Science Teaching, Pittsburgh, Pennsylvania.

Kong, X., Jeffe, D. B., Read, D. M., Andriole, D. A., Wathington, H. D., & Tai, R. H. (2013, November). *Importance of research, prestige, and altruism in medical-school applicant's decisions to study medicine: Differences by gender and race/ethnicity*. Paper presented at the annual meeting of Research in Medical Education, Philadelphia, Pennsylvania.

Kong, X., Tai, R. H., & Fan, X. (2013, April-May). *The relationships between students' perceptions of science and STEM career aspirations*. Paper presented at the annual meeting of American Education Research Association, San Francisco, California.

Kong, X., & Tai, R. H. (2012, March). *The influence of science summer camps on STEM career interest among sixth-eighth graders.* Paper presented at the annual meeting of National Association for Research in Science Teaching, Indianapolis, Indiana.

Kong, X., & Tai, R. H. (2012, January). *The influences of interaction experiences on biomedical graduate students' academic pursuit.* Paper presented at the annual meeting of Curry Research Conference, Charlottesville, Virginia.

Invited Scholarly Presentation

Tai, R. H., **Kong, X.**, & Ryoo, J. (2013, December). *Considering youths' interest and engagement through a framework for examining youths' learning activity preferences*. Project study presented at the Assessing the Outcomes of Informal Science Learning Experiences Meeting, Palo Alto, California.

Scholarly and Grant Activities

Graduate Research Assistant **2011-2014**
Spark to Flame: An Accelerated Longitudinal Study of Students' Interest and Engagement in Science Grades 3-12.
Assisting with instrument design, data collection, data analysis, and dissemination of results for advisor Robert H. Tai, Ed.D.
(S. D. Bechtel, Jr. Foundation) Project in Collaboration with Indiana University at Bloomington, IN. June 2011 – June 2015. PI: Robert H. Tai (UVA Funding: $400,000); IU sub-contract co-PI: Adam V. Maltese, Ph.D. (Total Funding: $600,000).

Graduate Research Assistant **2011-2014**
Transitions in the Education of Minorities Underrepresented in Research.

Performing research on biomedical research training and physician-scientist workforce development including data collection, data analysis, and dissemination of results for advisor Robert H. Tai, Ed.D.
(NIH – NIGMS 1 R01 GM094535-01) Project in Collaboration with Washington University of Saint Louis School of Medicine, Saint Louis, MO. September 2010 – August 2014. PI: Robert H. Tai; Joint PI: Heather Wathington (UVA Funding: $994,543). WUSTL subcontract co-PIs: Dorothy Andriole, MD and Donna Jeffe, PhD. National Institutes of Health – National Institute of General Medical Sciences. (Total Funding: $1,489,676).

Graduate Research Assistant **2011-2014**
Collaborative Research on Out-of-school Time Science Programs.
Performing research on out-of-school time science programs including data management and analysis, and dissemination of results for advisor Robert H. Tai, Ed.D.
(NSF DRL 1010935, ISE). Project in collaboration with the Ethnography and Evaluation Research Center of the University of Colorado, Boulder, CO. October 2010 – September 2012. PI: Robert H. Tai (UVA Funding: $149,000); CU Joint PI: Sandra Laursen, PhD. National Science Foundation, Division of Research on Learning in Formal and Informal Settings. (Total Funding: $440,000).

Graduate Research Assistant **2011-2014**
Exploring the Outcomes and Methods of Youth Out-of-School-Time Science Programs.
Assisting with data management and analysis, and dissemination of results for advisor Robert H. Tai, Ed.D.
(Noyce Foundation). Project in collaboration with the Ethnography and Evaluation Research Center of the University of Colorado, Boulder. January 2010 – December 2010. PI: Robert H. Tai. (UVA Funding: $107,151). CU Joint PI: Heather Thiry. (Total Funding: $224,815).

Graduate Research Assistant **2011-2014**
Youth-based Program Impact on Education and Career Choices: An Exploration of Issues in Planning and Implementing Longitudinal Research.
Performing research on STEM education and workforce development including data management and analysis, and dissemination of results for advisor Robert H. Tai, Ed.D.
(NSF DRL 0748041). PI: Robert H. Tai; Co-PI: Xitao Fan; National Science Foundation, Division of Research on Learning in Formal and Informal Settings. (Total Grant Funding: $200,000).

Graduate Research Assistant **2011-2014**
Study of the Impact of Specialized Public H.S. of Science, Mathematics, and Technology.
Assisting with data analysis on specialized STEM high school education for advisor Robert H. Tai, Ed.D.
(NSF DRL 0815421). Subcontract in partnership with the American Psychological Association. September 15, 2008 – August 31, 2011. National Science Foundation, Division of Research on Learning in Formal and Informal Settings. Subcontract PI: Robert H. Tai; Co-PI: Xitao Fan. (Subcontract Funding: $430,000); PI: Rena Subotnik. (Total Funding: $1,050,000).

Research Assistant **2010-2011**
Collaborative Research: SoCS - ExSciTecH: An Interactive, Easy-to-Use Volunteer Computing System to Explore Science, Technology, and Health.

Assisted with instrument design and data collection to explore volunteers' involvement in a Volunteer Computing program and engagement in science for Joanne M. Cohoon, Ph.D.
(NSF IIS 0968350) Project in collaboration with University of Delaware and Millersville University. September 2010 – August 2013. UVA PI: Joanne M. Cohoon (Funding: $154,643); UD PI: Michela Taufer; Millersville PI: Gary M. Zoppetti. (Total Grant Funding: $683,199).

Research Assistant **2010-2011**
Classroom Processes, Students' Engagement in Mathematics Instruction, and Mathematics Achievement.
Coded videos of elementary school classrooms with the Mathematics Scan and the Time Sampling Measure for Sara E. Rimm-Kaufman, Ph.D.
(National Science Foundation's REESE). September 2008 – August 2011. PI: Sara E. Rimm-Kaufman; Co-PI: Robert Q. Berry; III; Xitao Fan. (Total Grant Funding: $607,054).

Research Assistant **2010**
Measures for Effective Teaching Project, CLASS Observation Component.
Coded videos of upper-elementary and secondary schools with the Classroom Assessment Scoring System (CLASS) for Robert C. Pianta, Ph.D.
(Bill & Melinda Gates Foundation). September 2009 – August 2011. PI: Robert C. Pianta; Co-PI: Bridget K. Hamre. (Total Grant Funding: $281,489).

Professional Memberships

American Educational Research Association (AERA)
National Association for Research in Science Teaching (NARST)
Association of American Medical Colleges (AAMC)

Certifications

Upper Elementary Certified CLASS Observer **2010-2013**
Reissued June 4, 2011, Valid until September 26, 2013
Secondary Certified CLASS Observer **2010-2011**
Issued May 30, 2010, Valid until May 31, 2011

Service

Conference Proposal Review **2012-Present**
Evaluate proposals for the annual American Education Research Association (AERA).
Evaluate proposals for the annual National Association for Research in Science Teaching Conference (NARST).
Evaluate proposals for the annual Curry Research Conference (CRC) at University of Virginia.

Volunteer Mentor **2009-2010**
Mentored high school students in their homework and guided them to set goals and develop future visions in the "I Have A Dream" project.

College Facilitator **2006-2008**

Helped foreign teachers develop college level English curriculum in a Chinese institute.

Volunteer English Teacher **2006-2007**
Taught English to Chinese language learners from different levels—special, elementary and secondary school students.

Technical Skills (Software Packages)

Statistical Analysis:	STATA, SPSS, R, SAS, AMOS, Onyx, HLM, jMetrik
Qualitative Analysis:	NVivo
Data Display:	e!Sankey

References Available Upon Request