

CURRICULUM VITAE

Qiong FU, Ph. D.

Professor of Practice

Lehigh University
College of Education
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EDUCATION

Ph.D. University of Illinois at Chicago (UIC)

2010 Department of Educational Psychology

Specialty: Measurement, Evaluation, Statistics, and Assessment (MESA)

Dissertation: Comparing accuracy of parameter estimation using item response theory models in the presence of guessing

Committee: Drs. Everett Smith (Chair), George Karabatsos, Yue Yin, Keith Thiede, and Mavis Donahue

M.A. Tsinghua University, Beijing, China

2001 Department of Foreign Languages

Thesis: Validation of China's College English Band-6 reading comprehension tests

Committee: Drs. Wenxia Zhang (Chair), Baocheng Han, Gang Cui, and Xia Chen

B.A. Peking University, Beijing, China

1991 Department of English Language and Literature

Thesis: Jane Eyre's Pilgrimage; *Supervisor:* Prof. Nai-Zheng Qi

PROFESSIONAL DEVELOPMENT (WORKSHOPS I ATTENDED)

Nov. 2015^a. *Mediation and Moderation Analysis: A Second Course* (using SPSS/PROCESS), taught by Dr. A. Hayes.

July 2015^a. *Social Network Analysis* (using UCINET), taught by Dr. S. Borgatti.

June 2014^a. *Multilevel Modeling: A Second Course* (Mplus), taught by Dr. K. Preacher.

May 2013^a. *SEM: A Second Course* (using Mplus), taught by Dr. G. Hancock.

Aug. 2012^b. *Mplus Workshop for Statistics*, taught by Drs. B. Muthén, Asparouhov, Masyn, Lubke, van de Schoot, Nylund-Gibson, and Petras.

Dec. 2011^a. *Missing Data* (using SAS), taught by Dr. P. Allison.

a. Two days in Philadelphia.

b. Five days at John Hopkins University.

WORK EXPERIENCES

08/2016 – present	<p>Professor of Practice at the College of Education, Lehigh University.</p> <p><u>Duties:</u></p> <ul style="list-style-type: none"> (1) Providing consultation in quantitative research design, measurement/psychometrics, and statistics for faculty and graduate students; (2) Collaborating on grant proposals (next page) and research projects in educational and psychological fields; and (3) Teaching graduate-level courses and presenting measurement/statistics workshops to faculty and graduate students. <p><u>Courses taught:</u></p> <p>EDUC403–Research (Sp11);</p> <p>EDUC408–Introduction to Statistics (Fall, 2013, 2014, 2016; Sp15);</p> <p>EDUC409–Analysis of Experimental Data (Spring, 2011 to 2014, 2016);</p> <p>EDUC410–Univariate Statistical Models (Fall, 2011, 2012, 2015);</p> <p>EDUC412–Advanced Applications of Psychometric Principles (Sp16).</p> <p><u>Workshops:</u></p> <p>Introduction to Rasch Modeling (June 2015);</p> <p>Logistic regression for binary outcome (Oct. 2015)</p>
10/2010 – 08/2016	Research Scientist at the College of Education, Lehigh University.
2004–2010	Research Consultant at the MESA Lab, University of Illinois at Chicago (UIC). Part-time (10-20 hours per week).
2003–2010	Research Assistant for Drs. Keith Thiede (statistics), Wu-Ying Hsieh (special education), and the Center of Literacy, UIC.
2010	Instructor for EPSY505 (Advanced ANOVA and Regression) at UIC.
2007	Intern for 8 weeks in the Research Department at the Riverside Publishing (current Houghton Mifflin Harcourt Company), IL. Participated in (a) large-scale operational data editing, test/item analysis, Rasch calibration, scaling, standard setting, and (b) national school sampling.
1991–2003	<p>Faculty member, English Department, Peking University Health Science Center (PKU-HSC; known as Beijing Medical University by 2000), China.</p> <p>Honors: Excellent Teacher in 1995, 2002, and 2003.</p>
1996–2003	Leader of the English Teaching Program for the Eight-Year Program (for M.D.-Ph.D. track students) at PKU-HSC, Beijing, China.

1995–2003	Item screener for English vocabulary and reading comprehension (RC) tests, essay rater , and (in 2003) rater supervisor for the National College English Test Band-4/6 (CET-4/-6) in China. Essay rater and (2000–2004) RC test writer for doctoral students' entrance exams for the Ministry of Health in China.
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FUNDED GRANT PROJECTS (ROLE: STATISTICIAN*)

09/01/2016 – 08/31/2019. *Socio-Environmental Science Investigations Using the Geospatial Curriculum Approach with Web Geospatial Information Systems* (\$1,199,794). National Science Foundation: Innovative Experiences for Students and Teachers program. PIs: Drs. Alec Bodzin, Thomas Hammond, et al.

09/01/2014 – 08/31/2018. *Multisite Study of School-Based Treatment Approaches for Adolescents With ADHD* (\$3.05 million). Institute of Education Sciences. PIs: Drs. Steven Evans and George DuPaul.

09/01/2013 – 08/31/2015. *Little Talks: Developing the Role of Early Head Start Home Visitors to Provide Evidence-Based Intervention to Families* (\$889,102). US Department of Health and Human Services, Health Resources and Service Availability. PI: Dr. Patricia Manz.

07/01/2011 – 06/30/2013. *Promoting Spatial Thinking with Web-based Geospatial Technologies* (\$438,161). National Science Foundation. PI: Dr. Alec Bodzin.

PH.D. STUDENTS FOR WHOM I WORK(ED) ON THE DISSERTATION COMMITTEE

Students at UIC: Brown, J. (graduated; MESA Program in Educational Psychology); Barakshina, T. (Marketing).

Students at Lehigh: Gernhart, A. (graduated; School Psychology); Shameem, A. (Teaching, Learning, & Instruction); Singley, D. (Special Education); Gullo, G. (Educational Leadership).

* I provided substantial consultation to tens of graduate students in their dissertation research.

PUBLICATIONS

- Manz, P. H., Bracaliello, C. B., Pressimone, V. J., Eisenberg, R. A., Gernhart, A. C., **Fu, Q.**, & Zuniga, C. (2015, April 10). Toddlers' expressive vocabulary outcomes after one year of Parent–Child Home Program services. *Early Child Development and Care*. Advance online publication. DOI: 10.1080/03004430.2015.1025228
- Shapiro, E. S., Dennis, M. S., & **Fu, Q.** (2015). Comparing computer adaptive and curriculum-based measures of math in progress monitoring. *School Psychology Quarterly*, 30, 470-487. Available on <http://dx.doi.org/10.1037/spq0000116>
- Bodzin, A., **Fu, Q.**, Bressler, D. & Valleria, F. (2015). Examining the enactment of web GIS on students' geospatial thinking and reasoning and tectonics understandings. *Computers in the Schools*, 32, 63-81.
- Bodzin, A., **Fu, Q.**, Kulo, V., & Pfeffer, T. (2014). Examining the effect of enactment of a geospatial curriculum on students' geospatial thinking and reasoning. *Journal of Science Education and Technology*, 23(4): 562-574. DOI: 10.1007/s10956-014-9488-6
- Bodzin, A., & **Fu, Q.** (2014). The effectiveness of the geospatial curriculum approach on urban middle level students' climate change understandings. *Journal of Science Education and Technology*, 23(4): 575-590. DOI: 10.1007/s10956-013-9478-0
- Bodzin, A., **Fu, Q.**, Pfeffer, T., & Kulo, V. (2013). Developing energy literacy in U.S. middle level students using the geospatial curriculum approach. *International Journal of Science Education*, 35(9), 1561-1589. DOI: 10.1080/09500693.2013.769139
- DuPaul, G. J., Carson, K. M., & **Fu, Q.** (2013). Medical home care for children with special needs: Access to services and family burden. *Journal of Children's Health Care*, 42(1), 27-44. DOI: 10.1080/02739615.2013.753813
- Donahue, M., **Fu, Q.**, & Smith, E. V. Jr. (2012). Beliefs about Language Development: Construct Validity Evidence. *Journal of Applied Measurement*, 13(4), 336-359.
- DuPaul, G. J., Carson, K. M., & **Fu, Q.** (2011). Promoting comprehensive treatment for children with ADHD through medical home services. *The ADHD Report*, 19(6), 1-4.
- Yuen, M., Smith, E. V. Jr., Dobria, L., & **Fu, Q.** (2009). The Study Skills Self-Efficacy Scale for use with Chinese students. *Journal of Applied Measurement*, 10, 266-280.
- Fu, Q.**, & Zhang, W.-X. (2003). Verifying the construct validity of CET-6 reading comprehension tests. In W.-Zh. Hu (Ed.), *ELT in China 2001 – Papers presented at the third international symposium on ELT in China* (pp. 1032-1043). Beijing: Foreign Language Teaching and Research Press.
- Zhang, W.-X., & **Fu, Q.** (2002). Using verbal reports in verifying construct validity of CET-6
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reading Tests. *Teaching English in China*, 25(4), 2-5.

Fu, Q., & Zhang, W.-X. (2002). The role of verbal reports in exploring the reading comprehension tests. *Journal of Xi'an Foreign Language University*, 10(4), 90-93.

Fu, Q. (2001). Verifying the validity of CET-6 reading comprehension tests. In *Foreign Language Teaching* (pp. 94-99). Beijing: Tsinghua University Press.

Fu, Q. (1998). Transfer of Chinese language in English writing. In *Foreign Language and Culture Studies* (Vol. 3, pp. 27-30). Jilin Province, China: Jilin University Press.

CONFERENCE PRESENTATIONS & PROJECT REPORT

Shapiro, E. S., Guard, K., Flatley, K., & **Fu, Q.** (2015, February). *Larger-scale validation of teacher rating scales for assessing reading and mathematics*. Poster presented at the Pacific Coast Research Conference, San Diego, CA.

Fu, Q., Bodzin, A., & Smith, E. V. Jr. (2014, April). *Latent transition in geospatial thinking and reasoning for tectonics understanding*. Paper presented at the biennial International Objective Measurement Workshop (IOMW), Philadelphia, PA.

Bodzin, A., **Fu, Q.**, Bressler, D. & Vallera, F. (2014, April). *Examining the enactment of web GIS on students' geospatial thinking and reasoning and tectonics understandings*. Paper presented at the National Association for Research in Science Teaching (NARST) Annual International Conference, Pittsburgh, PA.

Janney, D. M., Wood, B. K., & **Fu, Q.** (2014, April). *Factors affecting teacher knowledge and use of evidence-based practices*. Paper presented at the International Council for Exceptional Children Convention, Philadelphia, PA.

Janney, D. M., Wood, B. K., & **Fu, Q.** (2014, March). *Teacher-identified contextual factors supporting use of evidence-based practices*. Paper presented as a paper at the 11th International Conference on Positive Behavior Support, Chicago, IL.

Liu, X. L., Tao, Sh.-Q., & **Fu, Q.** (2014, April). *The use of student growth percentiles in school accountability assessment*. Paper presented at the Annual Conference of National Council on Measurement in Education (NCME), Philadelphia, PA.

Shapiro, E. S., Dennis, M. S., & **Fu, Q.** (2014, February). *Comparing computer-adaptive and curriculum-based measurement methods for monitoring mathematics*. Paper presented at the Pacific Coast Research Conference, San Diego, CA.

Bodzin, A., **Fu, Q.**, & Pepper, T. (2012, January). *Investigating curriculum enactment with a GT-supported science curriculum on students' geospatial thinking and reasoning*. Paper

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- presented at the annual meeting of the Association for Science Teacher Education (ASTE), Clearwater Beach, FL.
- DuPaul, G. J., Carson, K. M., & **Fu, Q.** (2011, August). *Medical home care for children with ADHD: Access to services and family burden*. Poster presented at the annual meeting of the American Psychological Association (APA), Washington, D.C.
- Fu, Q.**, & Smith, E. V., Jr. (2011, April). *Poor targeting and effects of the CUTLO method on Rasch ability estimation*. Paper presented at the annual meeting of the American Educational Research Association (AERA), New Orleans, LA.
- Fu, Q.**, Yuen, M., & Smith, E. V., Jr. (2007, April). *Analysis of study skills self-efficacy of Hong Kong high school students*. Paper presented at the annual meeting of the American Educational Research Association (AERA), Chicago.
- Fu, Q.**, Bonner, G., & Smith, E. V., Jr. (2006, December). *The African-American Family Caregivers Trust in Physicians Scale and its relationship to medical decision making*. Paper presented at Midwest Objective Measurement Seminar, Chicago.
- Fu, Q.**, Yuen, M., Dobria, L., & Smith, E. V., Jr. (2005, December). *Study skills self-efficacy of secondary school students in Hong Kong: DIF across gender, teaching languages and grades*. Paper presented at Midwest Objective Measurement Seminar, Chicago.
- Smith, Jr., E.V., **Fu, Q.**, & Liu, X. (2004). *Psychometric evaluation of enGauge assessment*. Unpublished technical report for NCREL.
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