

# QUANTITATIVE METHODOLOGY

THE UNIVERSITY OF GEORGIA



QUANTITATIVE METHODOLOGY IS  
ONE OF THE COUNTRY'S LEADING  
GRADUATE PROGRAMS FOR  
DEVELOPING EXPERTISE IN:

MEASUREMENT

STATISTICS

PSYCHOMETRICS

ASSESSMENT

DATA ANALYSIS

RESEARCH METHODOLOGY



## THE QUANTITATIVE METHODOLOGY PROGRAM PREPARES GRADUATES FOR CAREERS IN

- **ACADEMICS.** *Conduct research and teach courses in education and social science departments across the country.*
- **TESTING COMPANIES.** *Work with states to develop and run assessments for K-12 curricula (e.g., Pearson, ACT, The College Board, ETS).*
- **RESEARCH COMPANIES/CONSULTING.** *Conduct educational (e.g., American Institutes for Research, Achieve) or psychological (e.g., Rand Corporation) research.*
- **GOVERNMENT.** *Facilitate federal and state testing initiatives (US and State DOE).*

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THE UNIVERSITY OF GEORGIA

**College of Education**

Educational Psychology

## WHAT DO QUANTITATIVE METHODOLOGISTS DO?

Quantitative methodologists including measurement professionals, statisticians, and psychometricians, vary greatly in their areas of expertise. For example, we

- Collaborate with cognitive scientists (e.g., a math education researcher) and clinical psychologists to develop tests that measure latent variables (e.g., mathematics proficiency, self-efficacy, and happiness).
- Investigate the validity of test scores so that interpretations are meaningful, useful, and accurate.
- Develop new statistical models and techniques for improving assessment systems.
- Develop and study statistical methodology appropriate for a wide range of research designs.

“EMPLOYMENT OPPORTUNITIES  
FOR QUANTITATIVE  
PSYCHOLOGISTS WITHIN AND  
BEYOND THE ACADEMIC  
SETTING WILL EXCEED THE  
REMARKABLY SMALL SUPPLY OF  
NEW QUANTITATIVE PHDS”  
AIKEN, WEST, & MILLSAP (2008)



## QM FACULTY



DR. LAINE BRADSHAW  
ASST. PROF.



DR. ALLAN COHEN  
PROFESSOR

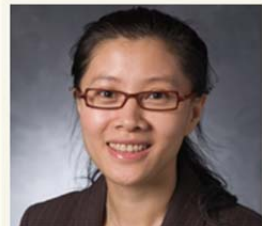
PROFESSOR  
DR. GEORGE ENGELHARD



ASST. PROF.  
DR. APRIL GALYARDT



DR. SEOCK-HO KIM  
PROFESSOR



DR. LAURA LU  
ASST. PROF.

**“UGA QM STUDENTS ARE HEAVILY  
RECRUITED AND VALUED BY THE  
MEASUREMENT AND PSYCHOMETRIC  
COMMUNITY”**

**Professor George Engelhard  
QM Program Coordinator**

## PROGRAM OVERVIEW

### GOALS

The major goals of the QM program are to develop and disseminate advances in the theory and practice of (1) measurement in the social and behavioral sciences and (2) statistical methodology in educational research. We reach these goals, in part, through mentoring, training, and collaborating with our graduate students.

### DEGREES

Students may complete an MA and/or a PhD in the QM program.

### PROGRAM OF STUDY

Students entering the QM program bring a unique set of interests and prior experiences. Useful backgrounds include those in mathematics, statistics, social sciences, learning sciences, and computer sciences. Specific programs of study for PhD students are customized to best suit each student's background and career goals. Beyond departmental core requirements, PhD students with the advice of their major advisor design tailored programs of study to meet individual career goals and objectives.

Students in the PhD program are expected to develop proficiencies in quantitative research methods and designs, theories of educational measurement, and psychometrics, as well as extensive expertise in the area of their dissertation research.

### FINANCIAL SUPPORT FOR STUDENTS

Almost all students within the QM program receive financial support in the form of a full tuition waiver and a generous monthly stipend during their study at UGA. Two major sources of this support are (1) QM faculty's federal grant-funded research projects and (2) the QM's partnership with the Georgia Center for Assessment ([gca.coe.uga.edu](http://gca.coe.uga.edu)).

### FACULTY

The QM faculty maintains a strong record of scholarship. We value the training of future scholars and professionals in our field. Visit our website for more information about our faculty research interests, and feel free to contact a faculty member today!