

# Engaging in Classroom Research: the Scholarship of Teaching and Learning

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“We develop a scholarship of teaching when our work as teachers becomes **public, peer-reviewed and critiqued**, and **exchanged** with other members of our professional communities so they, in turn, can build on our work.”

Lee Schulman, President Emeritus,  
Carnegie Foundation for the Advancement  
of Teaching



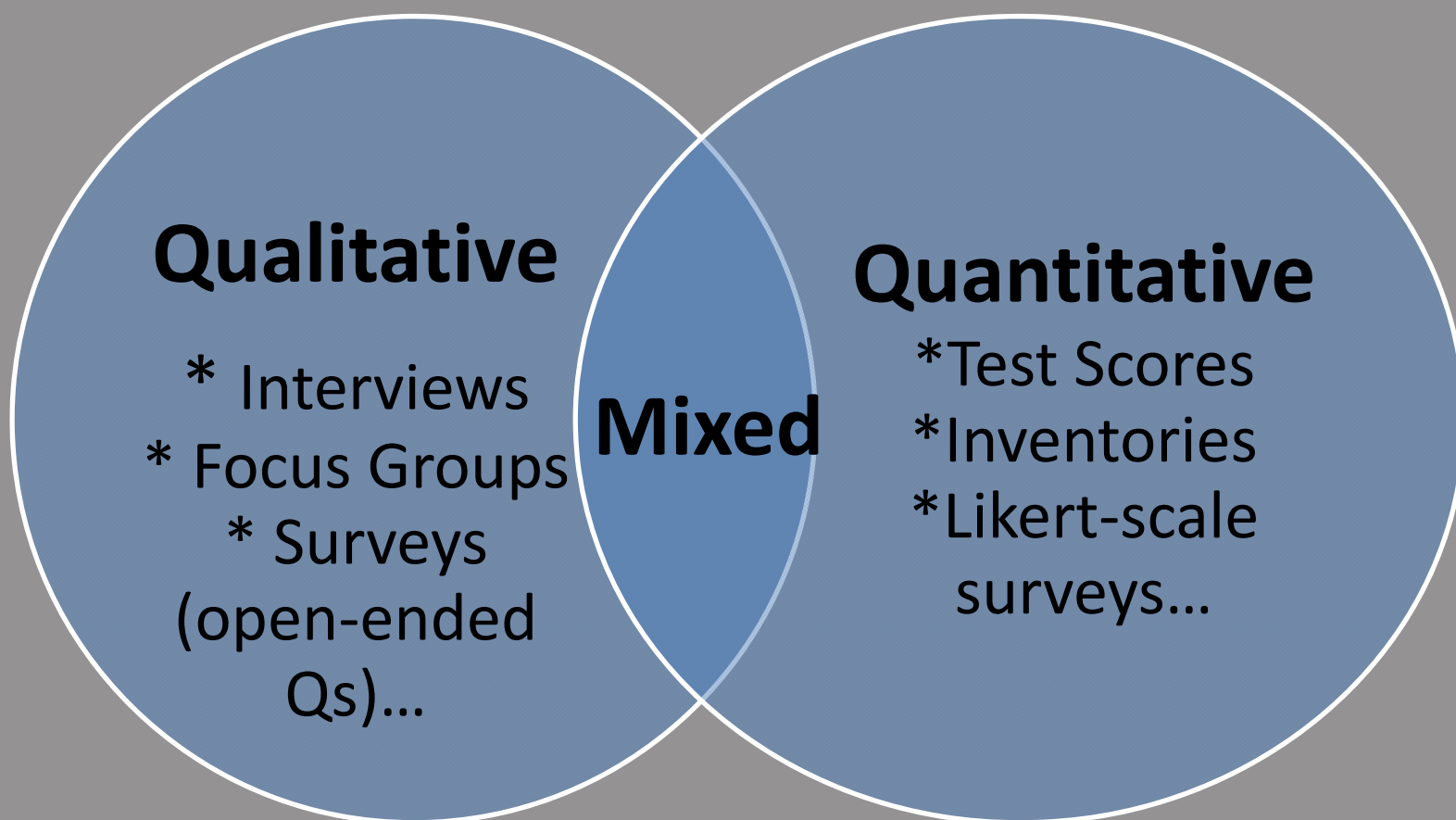
## Investigating Clinical Practice, Investigating Teaching Practice

What works?



“Teaching is the clinical work of  
university faculty members.”  
Lee Schulman

# Research Methods



# Example Study Designs:



- Experimental vs. control group
- Pre vs. post
- Longitudinal

# Think-Pair-Share

What questions do you have:

- about teaching or your students' learning?
- about teaching and learning in the School of Dentistry?

# Steps in Forming a Study

1. What is the research question?
2. What is the data that can shed light to the question?  
What can be measured to answer the research question?
3. What kind of data is it (quantitative vs. qualitative) and what is the appropriate method to analyze it?

# Example Articles

*(Journal of Dental Ed):*



- Dental Students' Ability to Assess Gingival Health Status with DAAGS Software
- What Do Dental Students Learn in an Ethics Course? An Analysis of Student-Reported Learning Outcomes
- Effect of Dental Students as Instructors on Preclinical Performance in Prosthodontics

# Example Articles

*(Journal of Dental Ed):*



- Predental Students' Attitudes Toward and Perceptions of the Dental Profession
- Correlation of Quantity of Dental Students' Clinical Experiences with Faculty Evaluation of Overall Clinical Competence: A Twenty-Two-Year Retrospective Investigation

# Example Article 1:



Sheridan, C., Gorman, T., & Claffey, N. (2008). Dental nursing education and the introduction of technology-assisted learning. *European Journal of Dental Education*, 12, 225-232.

- The study: Dental nursing students took a technology-assisted course.

# Example Article 1:



- Data: Student responses on evaluation forms - Likert-scale items and yes-no questions.
- Quantitative Analysis: descriptive stats (numbers and percentages)

## Example Article 2:



Cecilia E. Aragon, C. E., & Zibrowski, E. M. (2008). Does Exposure to a Procedural Video Enhance Preclinical Dental Student Performance in Fixed Prosthodontics? *Journal of Dental Education*, 72(1), 67-71.

# Example Article 2:

- The study:
  - 55 second-year dental students
  - got a copy of the video after a lecture
  - Watched the video during class
  - watched live demonstrations of tooth preparations throughout the semester
- Quantitative Analysis: Student scores on three practical exams were compared to those from a previous class (no video)

# Features of SoTL

- Embedded in discipline
- An aspect of practice
- Transformational agenda

