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MAEd

How to Design and Evaluate Research in Education

Synopsis:

- How to Design and Evaluate Research in Education provides a comprehensive introduction to educational research. The text covers the most widely used research methodologies and discusses each step in the research process in detail.
- Step-by-step analysis of real research studies provides students with practical examples of how to prepare their work and read that of others. End-of-chapter problem sheets, comprehensive coverage of data analysis, and information on how to prepare research proposals and reports make it appropriate both for courses that focus on doing research and for those that stress how to read and understand research.
- The authors' writing is simple and direct and the presentations are enhanced with clarifying examples, summarizing charts, tables and diagrams, numerous illustrations of key concepts and ideas, and a friendly two-color design.
- By [Jack Fraenkel](#) (Author), [Norman Wallen](#) (Author), [Helen Hyun](#) (Author; my research Professor at SFSU.)

Biography:

Dr. Helen Hyun is an Associate Professor of Interdisciplinary Studies in Education. She received her master's degree and doctorate in education policy from Harvard University.

She has taught classes at the undergraduate, master's and doctoral level at SFSU and also at UC Berkeley where she was a visiting professor in the Joint Doctoral Program from 2005-10. Dr. Hyun's teaching and research interests include higher education policy, mixed methods research, and equity issues in education.

Dr. Hyun has authored two commissioned studies for the Civil Rights Project at Harvard and UCLA, one on affirmative action and the other a recent study on the impact of the CSU budget crisis (<http://www.civilrightsproject.ucla.edu/> (link is external)). Dr. Hyun is also co-author of one of the leading research methods textbooks in the country (<http://www.worldcat.org/title/how-to-design-and-evaluate-research-in-education/oclc/694616478?referer=di&ht=edition> (link is external)).

Dr. Hyun was raised in San Francisco and now resides in the East Bay with her husband and two young daughters.



The gist of How to Design and Evaluate Research in Education (as it also relates to doing research in information architecture and user experience design):

- **Part 1 Introduction to Research**
 - The Nature of Educational Research

- **Part 2 The Basics of Educational Research**
 - The Research Problem
 - Variables and Hypotheses
 - Ethics and Research
 - Review of the Literature
 - Sampling Instrumentation
 - Validity and Reliability
 - Internal Validity

- **Part 3 Data Analysis**
 - Descriptive Statistics
 - Inferential Statistics
 - Statistics in Perspective

- **Part 4 Quantitative Research Methodologies**
 - Experimental Research
 - Single-subject Research
 - Correlational Research
 - Causal-comparative Research
 - Survey Research

- **Part 5 Introduction to Qualitative Research**
 - The nature of the Qualitative Research
 - Observation and Interviewing
 - Content Analysis

- **Part 6 Qualitative Research Methodologies**
 - Ethnographic Research
 - Historical Research

- **Part 7 Research by Practitioners**
 - Action Research

- **Part 8 Writing Research Proposals and Reports**
 - Preparing Research Proposals and Reports

This was a required course for the MAEd program prior to the culminating creative work and MAEd thesis report—on information architecture—The IA Model by Steven Heitman. In addition, Dr. Hyun and Dr. Beatty assisted me in setting up the research parameters and framework for my thesis report.