George Mason University College of Education and Human Development

EDRS 824-001 (3 credits) MIXED METHODS RESEARCH: INTEGRATING QUALITATIVE AND QUANTITATIVE APPROACHES

Spring 2014

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Class meeting:	Thursdays, 4:30-7:10; see course schedule for exceptions
Location:	Music and Theater 1002
Prerequisites:	Successful completion (with a grade of B or higher) of EDRS 810 and
EDRS 812, or equivalent coursework or experience. EDRS 811 is recommended but not	
required, since the main focus of 811 (how to do more advanced statistical analysis than that	
covered in EDRS 810) isn't essential for much mixed methods research. If you anticipate using	
sophisticated statistical analysis for a planned mixed methods study, you need to be familiar with	

Course Description

these techniques and their limitations; some of the limitations will be discussed in this course.

This course is an advanced research seminar dealing with integrating qualitative and quantitative approaches, methods, and data in a single study. I will assume that you have a basic understanding of both approaches; we will address some fundamental issues in each approach that are particularly relevant to (and sometimes problematic for) combining these approaches. The course covers the assumptions and "mental models" that inform both approaches, and the ways in which qualitative and quantitative goals, questions, methods, analysis strategies, and presentation styles can be productively integrated.

Course Goals

- 1. Understand the most important ways in which mixed methods research differs from single-method research strategies, and the main issues that should be addressed in combining approaches.
- 2. Understand the most important strengths and limitations of both qualitative and quantitative research, and how to integrate these approaches in a mixed method study.
- 3. Be able to use these understandings to evaluate published mixed methods research.
- 4. Be able to plan and communicate the design and process of a mixed methods study.

Assigned Books

Jennifer Greene, *Mixed Methods in Social Inquiry*. Jossey-Bass, 2007. Stanley Milgram, *Obedience to Authority*. Harper, 1976. Reprinted 2009. Thomas S. Weisner (Ed.), *Discovering Successful Pathways in Children's Development: Mixed*

Methods in the Study of Childhood and Family Life. University of Chicago Press, 2005. Howard S. Becker, *Writing for Social Scientists*. University of Chicago Press, 2007.

All of the assigned books should be available in the GMU bookstore. If you haven't used my book *Qualitative Research Design: An Interactive Approach* in previous courses, you should read this (pdf file of page proofs on Blackboard), since I will frequently refer to it on issues of research design, methods, and validity.

Other assigned and recommended readings will be placed on Blackboard. These include assigned and recommended articles, papers of mine that may be relevant, and exemplary assignments from previous semesters. Reading assignments are listed for the day on which they will be discussed.

Recommended Reference Books and Journals

Abbas Tashakkori & Charles Teddlie (Eds.), *Handbook of mixed methods in social & behavioral research (1st & 2nd editions)*. Sage Publications, 2003, 2010.

Judith L. Green, Gregory Camilli, & Patricia B. Elmore (Eds.), *Handbook of Complementary Methods in Education Research (3rd Edition)*. Lawrence Erlbaum, 2006.

The major journal for papers dealing with the methodology of mixed method research is the *Journal of Mixed Method Research*.

Course Structure and Requirements

Class meetings will be run as seminars. I expect you to come to class prepared to discuss the reading assignments, and encourage you to share with the class other readings and examples you have found that are relevant. I will email in advance my notes and discussion questions for each week's readings. I will also give mini-lectures on topics that I think are not well addressed by available readings, and there will be in-class exercises dealing with certain skills. There will be opportunities for you to present to the class, and get feedback on, your own research (what, in EDRS 812, I call "consultations"), and how integrating approaches can be useful in this research.

Before beginning the readings for a particular week I suggest that you ask yourself what *your* questions and concerns are about the topics for that week, and that you list these. After finishing a reading, jot down the author's main points. Then, ask yourself how these relate to your questions or concerns. Did the reading answer your questions? Did it give you new ideas or ways of approaching your study? How can you use what you learned from reading it? If an example of a mixed method study is assigned, analyze it in terms of the methodological readings. How do the latter's ideas apply? How do they not apply? What are the methodological readings' implications for this study, and vice versa? How can this example inform your own study?

We will often be reading articles or book chapters presenting different perspectives on the same issue. Think about each author's approach to mixed method research as you read his/her work, and how this fits into the different approaches we have discussed.

Grading

Written assignments

There will be three written assignments, corresponding to the three modules of the course; each of these will count for 25% of the grade. For each of modules, there will be a choice of several assignments, as described in the Guidelines for the assignments. Alternative assignments are possible to those that I suggest, but you need to discuss these with me and get my approval prior to doing the assignment. Page lengths for written assignments are suggestions only. Length is to be determined by the needs of the individual assignments.

My criteria for evaluating written assignments are: your understanding of the readings (through your discussion of the material and your application of it to your research topic), demonstration of an analytic/critical stance toward the material, appropriate application of the ideas, and clarity in organization and writing. The grading criteria and procedures will be presented and discussed in class. Grading scale: A+. A, A-, B+, B, B-, C, F.

Class participation

Class participation will count for the final 25% of the grade. Class participation grades will be based on informed, relevant, productive, and respectful contributions (questions as well as comments and responses) to class discussions; attendance will be a factor in this part of the grade.

For each class after the first one, you are required to develop a class discussion question on, or a reaction to, one or more of the readings for that class, and to email this to me by midnight of the day before the class. Doing this will count toward the participation component of the course grade. I will incorporate (anonymously) some of these questions and reactions into the class discussion of the readings, but you may also raise these issues in class.

Student Expectations

Students must adhere to the guidelines of the George Mason University Honor Code [See <u>http://oai.gmu.edu/honor-code/</u>].

Students must follow the university policy for Responsible Use of Computing [See <u>http://universitypolicy.gmu.edu/policies/responsible-use-of-computing/</u>].

• Students are responsible for the content of university communications sent to their George Mason University email account and are required to activate their account and check it regularly. All communication from the university, college, school, and program will be sent to students solely through their Mason email account.

• Students must follow the university policy stating that all sound emitting devices shall be turned off during class unless otherwise authorized by the instructor.

• Students are expected to exhibit professional behaviors and dispositions at all times. The College of Education & Human Development is committed to collaboration, ethical leadership, innovation, research-based practice, and social justice. Students are expected to adhere to these principles: <u>http://cehd.gmu.edu/values/</u>. For additional information on the Graduate School of Education, please visit our website [See <u>http://gse.gmu.edu/]</u>

If you are a student with a disability, please let me know how I can best adjust the course and assignments to your strengths and needs. Students with disabilities who seek accommodations in a course must be registered with the George Mason University Office of Disability Services (ODS) and inform their instructor, in writing, at the beginning of the semester [See <u>http://ods.gmu.edu/</u>, or call 703-993-2474 to access the ODS].

Campus Resources

• The George Mason University Counseling and Psychological Services (CAPS) staff consists of professional counseling and clinical psychologists, social workers, and counselors who offer a wide range of services (e.g., individual and group counseling, workshops and outreach programs) to enhance students' personal experience and academic performance [See http://caps.gmu.edu/].

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• The George Mason University Writing Center staff provides a variety of resources and services (e.g., tutoring, workshops, writing guides, handbooks) intended to support students as they work to construct and share knowledge through writing [See <u>http://writingcenter.gmu.edu/</u>].

COURSE SCHEDULE

Week Topic and readings

Module 1: What is mixed method research?

1/23 Introduction to the course and to mixed method research

Elbow, The believing game and how to make conflicting opinions more fruitful (Blackboard) Greene, *Mixed Methods in Social Inquiry*, Introduction and Chapters 1-3

Rabinowitz & Weseen, Power, politics, and the qualitative/quantitative debates in psychology (Blackboard)

McPhee, Annals of the Former World, pp. 19-25, 378-382 (Blackboard)

1/30 Qualitative and quantitative

James, Inside-out perspective (Blackboard)

Kidder & Fine, Qualitative and quantitative methods: When stories converge (Blackboard) Camic et al, Naming the stars (Blackboard)

Maxwell, Using numbers in qualitative research (Blackboard).

Sandelowski, Unmixing mixed-methods research (Blackboard).

Recommended:

Hammersley, Deconstructing the qualitative-quantitative divide (Blackboard). Blumer, Sociological analysis and the "variable" (Blackboard)

2/6 Paradigm issues

Greene, *Mixed Methods in Social Inquiry*, Chapters 4-5 and Interlude 1
Oakley, Paradigm wars (Blackboard)
McGrath & Johnson, Methodology makes meaning (Blackboard)
Maxwell, Paradigms or toolkits? Philosophical and methodological positions as heuristics for mixed methods research (Blackboard)

Recommended:

Yanchar & Williams, Reconsidering the compatibility thesis and eclecticism: Five proposed guidelines for method use (Blackboard)

Sleeter, Epistemological diversity in research on preservice teacher preparation for historically underserved children (Blackboard)

Maxwell & Mittapalli, Realism as a stance for mixed methods research (Blackboard)

Maxwell, A realist approach for qualitative research (Blackboard)

Lee Shulman, Paradigms and programs (excerpt on Blackboard)

Pawson & Tilley, Realistic evaluation.

Phillips, Postpositivistic science: Myths and realities (Blackboard)

Maxwell & Lincoln, Methodology and epistemology: A dialogue (Blackboard)

Pitman & Maxwell, Qualitative approaches to evaluation (Blackboard)

2/13 Mixed methods research

Weisner, Introduction to Discovering successful pathways.

Minta et al., Hunting associations between badgers and coyotes (Blackboard)

Goldenberg, Gallimore, & Reese, Using mixed methods to explore Latino children's development, in Weisner, *Discovering successful pathways*.

Castle, Fox, & Souder, Do professional development schools make a difference? A comparative study of PDS and non-PDS teacher candidates (Blackboard).

Recommended:

Fricke, Taking culture seriously: Making the social survey ethnographic, in Weisner, *Discovering successful pathways*.

2/20 Writing about mixed method research

Greene, *Mixed Methods in Social Inquiry*, Chapter 10 and Interlude 3 Marshall & Barritt, Choices made, worlds created: The rhetoric of AERJ (Blackboard)

Bem, Writing the empirical journal article (Blackboard)

Howard S. Becker, Writing for social scientists, Chapters 1-2.

Sandelowski, Tables or tableaux? The challenges of writing and reading mixed methods studies. (Blackboard)

Recommended:

American Psychological Association Publication Manual

Maxwell, "Guide to the APA Publication Manual: The most important things to remember." (Blackboard)

Howard S. Becker, Writing for social scientists, Chapters 3-7.

John S. Nelson, Allan Megill, and Donald N. McCloskey (Eds.), *The Rhetoric of the Human Sciences*. University of Wisconsin Press, 1987.

Module 2: Design, analysis, and validity

2/27 Research design and research problems

Module 1 assignment due

Greene, *Mixed Methods in Social Inquiry*, Chapters 6-7 and Interlude 2
Maxwell & Loomis, Mixed method design: An alternative approach (Blackboard)
Hall & Howard, A synergistic approach: Conducting mixed methods research with typological and systemic design considerations (Blackboard)

Maxwell, Literature reviews of, and for, educational research (Blackboard)

Recommended:

Maxwell, Qualitative Research Design, chapter 3

3/6 "Scientific research" and mixed methods

Platt, Strong inference (Blackboard)

Understanding controlled trials: Why are randomised controlled trials important? <<u>http://www.bmj.com/content/316/7126/201</u>>

Maxwell, Causal explanation, qualitative research, and scientific inquiry in education (Blackboard)

- Phillips, Models v. mechanisms at FDA Center for Tobacco Products <<u>http://ep-ology.blogspot.com/2013/08/models-v-mechanisms-at-fda-center-for.html</u>>
- Smith and Pell, Parachute use to prevent death and major trauma related to gravitational challenge: Systematic review of randomised controlled trials (Blackboard)

Leibovici, Effects of remote, retroactive, intercessory prayer (Blackboard)

Swern, A story of evidence-based medicine: Hormone replacement therapy and coronary heart disease in postmenopausal women (Blackboard)

Recommended:

Eisenhart, Hammers and saws for the improvement of educational research (Blackboard)

- Maxwell, The importance of qualitative research for causal explanation in education (Blackboard)
- Scriven, A summative evaluation of RCT methodology: & an alternative approach to causal research (Blackboard)

Freedman, Statistical models and shoe leather (Blackboard)

- Shadish, Cook, & Campbell, *Experimental and quasi-experimental designs for generalized causal inference*, Chapter 1 (e-reserve).
- Chatterji, Evidence on "what works": An argument for extended-term mixed-method (ETMM) evaluation designs (Blackboard)

Conrad (Ed.), *Critically evaluating the role of experiments*.

- Lewontin, The analysis of variance and the analysis of causes, in Block (Ed.), *The IQ Controversy* (Blackboard)
- Maxwell, Re-emergent scientism, postmodernism, and dialogue across differences (Blackboard) Maxwell, Explanation (Blackboard)

Maxwell, Scientism (Blackboard)

3/13 Spring break—no class

3/20 Data analysis

Greene, Mixed Methods in Social Inquiry, Chapter 8

- Maxwell, *Qualitative Research Design*, Chapter 5, section on data analysis (pp. 104-116) (Blackboard)
- Cohen, The Earth is round (p < .05) (Blackboard)

Gelman, Too good to be true

<<u>http://www.slate.com/articles/health_and_science/science/2013/07/statistics_and_psycholog</u> y_multiple_comparisons_give_spurious_results.single.html>

- Maxwell, Notes on key concepts in quantitative research (unpublished class notes), particularly the discussion of inferential statistics (pp. 11-15) (Blackboard)
- Boaler & Staples, Creating mathematical futures (Blackboard)

Recommended:

Nix & Barnette, The data analysis dilemma: Ban or abandon. A review of null hypothesis significance testing (Blackboard)

Gigerenzer, Mindless statistics (Blackboard)

- Geoff Cumming, Understanding the New Statistics: Effect Sizes, Confidence Intervals, and Meta-Analysis. Routledge, 2012.
- Zimmer, Good scientist! You get a badge.

<<u>http://www.slate.com/articles/health_and_science/science/2012/08/reproducing_scientific_s</u> tudies a good housekeeping_seal_of_approval_single.html>

Weiss et al., Working it out: The chronicle of a mixed-method analysis, in Weisner, *Discovering successful pathways*.

Matthew Miles & A. Michael Huberman, *Qualitative Data Analysis: An Expanded Sourcebook*. Sage Publications, 1994.

Maxwell & Miller, Categorizing and connecting strategies in qualitative data analysis (Blackboard)

Thompson, Statistical significance and effect size reporting: Portrait of a possible future (Blackboard)

http://en.wikipedia.org/wiki/Exploratory_data_analysis http://www.itl.nist.gov/div898/handbook/eda/eda.htm

3/27 Validity and generalizability

Maxwell, *Qualitative research design*, 3rd ed., chapter 6, "Validity" (Blackboard)

Greene, Mixed Methods in Social Inquiry, Chapter 9

James, Jeter vs. Everett (Blackboard)

Stark, Playing on the road

<<u>http://sports.espn.go.com/mlb/columns/story?columnist=stark_jayson&id=3435041&lpos=spotlight&lid=tab1pos1</u>>

- Saletan, <<u>http://www.slate.com/articles/health_and_science/human_nature/2012/06/new_family_structures_study_is_gay_parenthood_bad_or_is_gay_marriage_good_.html</u>>
- Becker, Generalizing from case studies. In Eisner & Peshkin, *Qualitative inquiry in education* (Blackboard)

Recommended:

Maxwell, A Realist Approach for Qualitative Research, Chapter 8: Validity (Blackboard).

- What is causing Arctic sea ice decline? <<u>http://nsidc.org/icelights/2012/05/16/what-is-causing-arctic-sea-ice-decline/ more-747</u>
- Shadish, Cook, & Campbell, *Experimental & quasi-experimental designs for generalized causal inference*, particularly Chapters 2-3 and 11-12.

Maxwell & Chmiel, Generalizing in and from qualitative data analysis (Blackboard) Weisner et al., Behavior sampling and ethnography (Blackboard)

Module 3: Integrating approaches, methods, and data

4/3 Strategies for integrating approaches

Module 2 assignment due

Bryman, Barriers to integrating quantitative and qualitative research (Blackboard) Trend, On the reconciliation of qualitative and quantitative analyses: A case study (Blackboard) Kaplan & Duchon, Combining qualitative and quantitative methods in information systems

research: A case study (Blackboard)

Plano Clark et al., Practices for embedding an interpretive qualitative approach within a randomized clinical trial (Blackboard)

Recommended:

White, Of probits and participation: The use of mixed methods in quantitative impact evaluation (Blackboard)

Maxwell, Diversity and methodology (Blackboard)?

Shulman, Summary and prognosis, in Shulman, Paradigms and programs (Blackboard)

4/10 Examples: Integrating data collection methods

Maxwell, Sandlow, & Bashook, Combining ethnographic and experimental methods in evaluation research: A case study (Blackboard)

Rank, The blending of qualitative and quantitative methods in understanding childbearing among welfare recipients (Blackboard)

Kling et al., "Bullets don't got no name," in Weisner, Discovering Successful Pathways

Zentella, Integrating qualitative and quantitative methods in the study of bilingual code switching (Blackboard)

Recommended:

Bernheimer, Weisner, & Lowe, Impacts of children with troubles on working poor families: Mixed-method and experimental evidence (Blackboard)

4/17 Presenting integrated analyses and results

Morse, Tylko, & Dixon, Characteristics of the fall-prone patient (Blackboard)

Morse & Tylko, The use of qualitative methods in a study examining patient falls (Blackboard) Tolman & Szalacha, Dimensions of desire: Bridging qualitative and quantitative methods in a

study of female sexuality (Blackboard)

Milgram, Obedience to authority. Harper & Row, 1974

4/24 More examples of integrating analyses and results

Irwin, Data analysis and interpretation: Emergent issues in linking qualitative & quantitative evidence (Blackboard).

Muth, Conceptualizing incarcerated literacy learners: Pragmatic and dialectical uses of assessment data. Unpublished paper (Blackboard)

Gibson-Davis & Duncan, Qualitative-quantitative synergies in a random-assignment program evaluation, and the commentary by Huston, in Weisner, *Discovering successful pathways*.

Maxwell et al., Designing integration in mixed and multi-method studies (Blackboard)

5/1 Final class

Module 3 assignment due

Full references

Becker, Howard, "Generalizing from case studies." In Elliot Eisner & Alan Peshkin, *Qualitative Inquiry in Education*.

Bem, Daryl, "Writing the empirical journal article." A version of this article appears in Darley, J. M., Zanna, M. P., & Roediger III, H. L. (Eds) (2003). *The Compleat Academic: A Practical Guide for the Beginning Social Scientist, 2nd Edition*. Washington, DC: American Psychological Association.

Blumer, Herbert, "Sociological analysis and the 'variable." *American Sociological Review 21*(6), pp. 683-690 (Dec 1956). Reprinted in Blumer, *Symbolic Interactionism*, pp. 127-139.

Boaler, Jo, & Staples, Megan, "Creating mathematical futures through an equitable teaching approach: The case of Railside School." *Teachers College Record 110* (3), pp. 608–645 (March 2008).

Bryman, Alan, "Barriers to integrating quantitative and qualitative research." *Journal of Mixed Methods Research 1*(1), pp. 8-22 (Jan 2007).

Camic, P. M., Rhodes, J. E., & Yardley, L., "Naming the stars: Integrating qualitative methods into psychological research." In Camic, P. M., Rhodes, J. E., & Yardley, L. (Eds), *Qualitative research in psychology: Expanding perspectives in methodology and design*, pp. 3-15 (2003). Washington, DC, US: American Psychological Association, xvi, 315 pp. doi: <u>10.1037/10595-001</u>

Castle, S., Fox, R., & Souder, K. "Do professional development schools make a difference? A comparative study of PDS and non-PDS teacher candidates." *Journal of Teacher Education* 57 (1), pp. 65-80 (Jan/Feb 2006).

Chatterji, "Evidence on "what works": An argument for extended-term mixed-method (ETMM) evaluation designs." *Educational Researcher* 34(5), pp. 14–24. (June/July 2005)

Cohen, Jacob. The Earth is round (p < .05). *American Psychologist* 49(12), pp. 997-1003 (Dec. 1994).

Conrad, Kendon J. (Ed.), *Critically Evaluating the Role of Experiments*. *New Directions for Program Evaluation 63*. Jossey-Bass (1994).

Cook, Thomas, and Reichardt, Charles (Eds), *Qualitative and Quantitative Methods in Evaluation Research*. Sage, 1979

Dillman, D. A., Smyth, J. D., & Christian, L. M., *Internet, Mail, and Mixed-mode Surveys: The Tailored Design Method*. Wiley, 2008. (Strongly recommended for those considering using surveys.)

Eisenhart, Margaret, "Hammers and saws for the improvement of educational research." *Educational Theory* 55(3), pp. 245-261 (2005)

Elbow, Peter, "The believing game and how to make conflicting opinions more fruitful." Online at <u>http://www.procon.org/sourcefiles/believinggame.pdf</u>.

Freedman, David A., "Statistical models and shoe leather." In Freedman, *Statistical Models and Causal Inference: A Dialogue with the Social Sciences*, pp. 45-62. Cambridge University Press, 2010. Originally published in *Sociological Methodology 21*, pp. 291-313 (1991).

Gigerenzer, Gerd, "Mindless statistics." *The Journal of Socio-Economics 33*, pp. 587–606 (2004).

Guba, Egon (Ed.), The Paradigm Dialog. Sage Publications, 1990.

Hall, Bronwyn, & Howard, Kirsten, "A synergistic approach: Conducting mixed methods research with typological and systemic design considerations." *Journal of Mixed Methods Research 2*(3), pp. 248-269 (2008).

Hammersley, Martyn, "Deconstructing the qualitative-quantitative divide," in Hammersley, *What's Wrong with Ethnography*? Routledge, 1992.

Howe, Kenneth, Closing Methodological Divides. Kluwer, 2003.

Irwin, Sara, "Data analysis and interpretation: Emergent issues in linking qualitative & quantitative evidence." In S. N. Hesse-Biber & P. Leavy (Eds), *Handbook of Emergent Methods*, pp. 415-435. Guilford, 2008.

James, Bill, "Inside-out perspective", in *The Bill James Baseball Abstract, 1984*, pp. 5-8. Ballantine Books.

James, Bill, "Jeter vs. Everett." In *The Fielding Bible*; accessed online at http://www.billjamesonline.net/fieldingbible/jeter.asp

Kaplan, Bonnie and Duchon, Dennis, "Combining qualitative and quantitative methods in information systems research: A case study." *MIS Quarterly 12*, pp. 571-586 (1988).

Kidder, Louise, & Fine, Michelle, "Qualitative and quantitative methods: When stories converge." In Mark, M. M., and Shotland, R. L. (Eds.), *Multiple Methods in Program Evaluation*. San Francisco: Jossey-Bass, 1987.

Leibovici, Leonard, "Effects of remote, retroactive, intercessory prayer on outcomes in patients with bloodstream infection: Randomised controlled trial." *British Medical Journal 323*, pp. 1450-1451 (2001).

Lewontin, Richard, "The analysis of variance and the analysis of causes." *American Journal of Human Genetics 26*, pp. 400-411 (1974). Reprinted in Block and Dworkin (Eds.), *The IQ Debate*.

Marshall, M. J., & Barritt, L. S., Choices made, worlds created: The rhetoric of AERJ. *American Educational Research Journal* 27(4), pp. 589-609 (Winter 1990)

Maxwell, Joseph A., "Causal explanation, qualitative research, and scientific inquiry in education." *Educational Researcher* 33(2), 3-11 (March 2004)

Maxwell, Joseph A., "Diversity and Methodology in a Changing World." *Pedagogia 30*, pp. 32-40 (1995-96). A more recent version of this argument is in Maxwell, *A Realist Approach for Qualitative Research*, Chapter 4.

Maxwell, Joseph A., "Explanation." In L. Given (Ed.), *The SAGE Encyclopedia of Qualitative Research Methods*. Thousand Oaks, CA: Sage Publications, 2008.

Maxwell, Joseph A., "Paradigms or toolkits? Philosophical and methodological positions as heuristics for mixed methods research." *Midwest Educational Research Journal* 24(2), pp. 27-30 (2011).

Maxwell, Joseph A., *A Realist Approach for Qualitative Research*. Thousand Oaks, CA: Sage Publications, 2011.

Maxwell, Joseph A., "Re-emergent scientism, postmodernism, and dialogue across differences." *Qualitative Inquiry 10*, pp. 35-41 (February 2004)

Maxwell, Joseph A., "Scientism." In William A. Darity, Jr. (Ed.), *International Encyclopedia of the Social Sciences*, 2nd ed., Vol. 7, pp. 364-365. Detroit: Macmillan Reference USA, 2008.

Maxwell, Joseph A., "Using numbers in qualitative research." *Qualitative Inquiry 16*(6), pp. 475-482 (2010).

Maxwell, Joseph A., "Using qualitative methods for causal explanation." *Field Methods 16(3)*, pp. 243-264 (August 2004).

Maxwell, Joseph A., "The value of a realist understanding of causality for qualitative research." In N. Denzin (Ed.), *Qualitative Inquiry and the Politics of Evidence*. Walnut Creek, CA: Left Coast Press, 2008.

Maxwell, Joseph, & Lincoln, Yvonna, "Methodology and epistemology: A dialogue." *Harvard Educational Review* 60(4), pp. 497-512 (November 1990).

Maxwell, Joseph A., & Loomis, Diane, "Mixed methods design: An alternative approach." In Abbas Tashakkori and Charles Teddlie (Eds.), *Handbook of Mixed Methods in Social and Behavioral Research*, pp. 241-271. Sage Publications, 2003.

Maxwell, Joseph A., & Miller, Barbara A., "Categorizing and connecting strategies in qualitative data analysis". In P. Leavy and S. Hesse-Biber (Eds.), *Handbook of Emergent Methods*, pp. 461-477. New York: Guilford Press, 2008

Maxwell, Joseph A., & Mittapalli, Kavita, Realism as a stance for mixed method research. In A. Tashakkori & C. Teddlie (Eds.), *Handbook of Mixed Methods in Social and Behavioral Research*, 2nd edition, pp. 145-167. Thousand Oaks, CA: Sage Publications, 2010.

Maxwell, Joseph A., Sandlow, Leslie J., & Bashook, Philip G., Combining ethnographic and experimental methods in evaluation research: A case study. In David Fetterman & Mary Ann Pitman, *Educational Evaluation: Ethnography in Theory, Practice, and Politics*. Sage Publications, 1986. Reprinted in *Evaluation Studies Review Annual 12* (1987).

McPhee, John. Annals of the Former World. NY: Farrar, Straus, & Giroux, 1998.

Minta, Steven C., Minta, Kathryn A., & Lott, Dale F., "Hunting associations between badgers (Taxidea taxus) and coyotes (Canis latrans)." *Journal of Mammalogy* 73(4), pp. 814-820 (1992).

Morse, Janice M., Tylko, Suzanne J., & Dixon, Herbert A., "Characteristics of the fall-prone patient." *The Gerontologist* 27(4), pp. 516-522 (1987).

Morse, Janice M., & Tylko, Suzanne J., "The use of qualitative methods in a study examining patient falls." Unpublished paper presented at the Annual Meeting of the Society for Applied Anthropology, Washington, DC, March, 1985.

Muth, William, "Conceptualizing incarcerated literacy learners: Pragmatic and dialectical uses of assessment data." Unpublished paper.

Nix, Thomas W., and Barnette, J. Jackson, The data analysis dilemma: Ban or abandon. A review of null hypothesis significance testing. *Research in the Schools* 5(2), pp. 3-14 (1998)

Oakley, Ann, "Paradigm wars: Some thought on a personal and public trajectory." *International Journal of Social Research Methodology* 2(3), pp. 247-254 (1999).

Pawson, Ray, & Tilley, Nick, Realistic Evaluation. Sage Publications, 1997.

Phillips, Postpositivistic science: Myths and realities. In Egon Guba (Ed.), The Paradigm Dialog.

Pitman, M. A., and Maxwell, J. A., Qualitative approaches to evaluation. In M. D. LeCompte, W. L. Millroy, and J. Preissle (Eds.), *The Handbook of Qualitative Research in Education*, pp. 729-770. Academic Press, 1992

Plano Clark, Vicki, et al., "Practices for embedding an interpretive qualitative approach within a randomized clinical trial." *Journal of Mixed Methods Research* (in press).

Platt, John R., "Strong inference." *Science 146*, pp. 347-353 (Oct 16, 1966). Reprinted in H. S. Broudy et al (Eds), *Philosophy of Educational Research*. New York: John Wiley & Sons, 1973.

Rabinowitz, V. C., & Weseen, Susan, Power, politics, and the qualitative/quantitative debates in psychology. In D. Tolman & M. Brydon-Miller (Eds.), *From Subjects to Subjectivities: A Handbook of Interpretive and Participatory Methods*, pp. 12-28. New York: New York University Press, 2001.

Ragin, Charles, & Becker, Howard S. (Eds.), *What is a Case*? Cambridge: Cambridge University Press, 1992.

Rank, Mark R., "The blending of qualitative and quantitative methods in understanding childbearing among welfare recipients," In S. Hesse-Biber & P. Leavy (Eds), *Approaches to Qualitative Research*, pp. 81-96. Oxford University Press, 2004.

Sandelowski, Margarete, "Tables or tableaux? The challenges of writing and reading mixed methods." In A. Tashakkori & C. Teddlie, *Handbook of Mixed Methods in Social and Behavioral Research*. Sage Publications, 2003.

Sayer, Andrew, *Method in Social Science: A Realist Approach*, 2nd edition. Sage Publications, 1992

Scriven, Michael, "A summative evaluation of RCT methodology: & an alternative approach to causal research." *Journal of MultiDisciplinary Evaluation* 5(9), pp. 11-24 (2008)

Shadish, William R., Cook, Thomas D., & Campbell, Donald T., *Experimental and Quasi-Experimental Designs for Generalized Causal Inference*. Boston: Houghton Mifflin, 2002.

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