

CURRICULUM VITAE

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EDUCATIONAL HISTORY:

1991 Ph.D. University of Toronto, Educational Psychology
1986 M.A. University of Toronto, School Psychology
1978 B.A. University of Toronto, Specialization in Psychology

PROFESSIONAL HISTORY:

2008- *Professor*, Department of Educational Psychology & Foundations, University of Northern Iowa
1998-2008 *Associate Professor*, Department of Educational Psychology & Foundations, University of Northern Iowa
1995-1998 *Assistant Professor*, Department of Educational Psychology & Foundations, University of Northern Iowa
1990-1992 *Postdoctoral Fellow*, Social Sciences and Humanities Research Council of Canada, Learning Research & Development Center, University of Pittsburgh
1992-1995 *Visiting Scholar and Lecturer*, Department of Psychology, University of California, Los Angeles
1993 *Senior Program Administration Analyst*, Graduate School of Education and Information Sciences, University of California, Los Angeles

PUBLICATIONS:

Articles and Chapters – Refereed:

Joram, E. & Oleson, V. (2007/2008). How fast do trees grow? Using tables and graphs to explore slope. *Mathematics Teaching in the Middle School*, 13(5), 260-265.

Gabriele, A. J., & Joram, E. (2007). Teachers' reflection on their reform-based teaching in mathematics: Implications for the development of teacher self-efficacy. *Action in Teacher Education*, 29(3), 60-74.

- Joram, E. (2007). Clashing epistemologies: Aspiring teachers', practicing teachers', and professors' beliefs about knowledge and research in education. *Teaching & Teacher Education*, 23(2), 123-135.
- Joram, E. & Garcia, F. (2006). Taking a closer look at measurement: Using teacher read alouds of nonfiction to develop students' measurement sense. *Journal of the Iowa Council of Teachers of Mathematics*, 33, 47-53.
- Henning, J. E., DeBruin-Parecki, A., Hawbaker, B. W., Nielsen, C. P., Joram, E., & Gabriele, A. J. (2005). The Teacher Work Sample: A tool for scaffolding and assessing preservice teachers' early field experiences. *The Teacher Educator* 40(3), 188-207.
- Joram, E., Gabriele, A. J., Bertheau, M., Gelman, R., & Subrahmanyam, K. (2005). Children's use of the reference point strategy for measurement estimation. *Journal for Research in Mathematics Education*. 36(1), 4-23.
- Joram, E., Oleson, V., & Sabey, K. (2005). Is it a good deal? Developing number sense in algebra by comparing housing prices. *Journal of the Iowa Council of Teachers of Mathematics*, 32, 15-19.
- Joram, E. & Oleson, V. (2004). Learning about area by working with building plans. *Mathematics Teaching in the Middle School*. 9(8), 450-456.
- Joram, E., Hartman, C., & Trafton, P. (2004). "As people get older they get taller": Exploring second grade students' intuitions about functional relationships. *Teaching Children Mathematics*, 10(7), 344-351.
- Joram, E. (2003a). Benchmarks as tools for developing measurement sense. In D. H. Clements & G. Bright (Eds.) *Learning and teaching measurement - NCTM 2003 Yearbook* (pp. 57-67). Reston, VA: National Council of Teachers of Mathematics.
- Joram, E. (2003b). Benchmarks for measurement units. In D. H. Clements & G. Bright (Eds.), *Classroom activities for Learning and teaching measurement - NCTM 2003 Yearbook* (pp. 15-18). Reston, VA: National Council of Teachers of Mathematics.
- Bertheau, M., & Joram, E. (2002). How many pieces of bubblegum in a foot? Using benchmarks to teach measurement estimation. *Journal of the Iowa Council of Teachers of Mathematics*, 29, 14-17.
- Joram, E. (2001). Teachers and university researchers as co-investigators: A case study of the collaborative process. *Teaching and Learning: The Journal of Natural Inquiry and Reflective Practice*. 16(1).
<http://www.und.nodak.edu/dept/ehd/journal/>

- Joram, E., Subrahmanyam, K., & Gelman, R. (1998). Measurement estimation: Learning to map the route from number to quantity and back. *Review of Educational Research*, 68, 413-449.
- Joram, E., & Gabriele, A. (1998). Preservice teachers' prior beliefs: Transforming obstacles into opportunities. *Teaching & Teacher Education*, 14, 175-191.
- Joram, E. & Read, D. (1996). Two faces of representativeness: The effects of response format on beliefs about random sampling. *Journal of Behavioral Decision Making*, 9(4), 249-264.
- Lonka, K., Joram, E., & Bryson, M. (1996). Conceptions of learning and knowledge: Does training make a difference? *Contemporary Educational Psychology*, 21, 240-260.
- Joram, E., Resnick, L. B. & Gabriele, A. J. (1995). Numeracy as cultural practice: An examination of numbers in magazines for children, teenagers, and adults. *Journal for Research in Mathematics Education*, 26, 346-361.
- Slotta, J., Chi. M. T. H., & Joram, E. (1995). Assessing students' misclassifications of physics concepts: An ontological basis for conceptual change. *Cognition and Instruction*, 13(3), 473-400.
- Joram, E., Woodruff, E., Bryson, M. & Lindsay, P. H. (1992). The effects of revising with a word processor on written composition. *Research in the Teaching of English*, 26(2), 167-193.
- Joram, E., Woodruff, E., Lindsay, P. & Bryson, M. (1990). Students' editing skills and attitudes toward word processing. *Computers & Composition*. 7(3), 55-72.

Articles and Chapters – Editorial Review

- Joram, E. & Montecinos, C. (2008). Personal epistemologies and the learning paradox in teacher education: A neglected dilemma. Invited chapter to appear in *Teacher education: Policy, practice, and research*. Nova Science Publishers.
- Joram, E. (1993) Situating learning between a rock and a hard place (Invited Book Review of *Situated learning: Legitimate peripheral participation* by Jean Lave & Etienne Wenger). *Applied Cognitive Psychology*, 7(1), 88-90.
- Bryson, M., Bereiter, C., Scardamalia, M. & Joram, E. (1991). Beyond the problem as given: Models of competence in written composition. In R. J. Sternberg and P. A. Frensch (Eds.) *Complex problem solving: Principles and mechanisms*, pp. 61-84. Hillsdale: Lawrence Erlbaum.

Bryson, M., Lindsay, P. H., Joram, E., & Woodruff, E. (1986). Augmented word processing: The influence of procedural facilitation and mode of production on the writing process. *Proceedings of the Fifth Canadian Symposium of Instructional Technology*, National Research Council of Canada, 552-558.

Manuscripts Under Review

Joram, E., Gabriele, A. J., Henning, J. E., Carlson, N. & Hawbaker, B. W. (2008). *Preservice and practicing teachers' personal epistemologies and beliefs about assessment*. Manuscript submitted for publication.

Joram, E., Yehieli, M., & Roberts-Dobie, S. (2008). *What counts as health numeracy?* Manuscript submitted for publication. University of Northern Iowa.

Manuscripts in Preparation

Joram, E., Joseph, S., Yehieli, M., Roberts-Dobie, S. & Herbrandson, K., (2008). *The numeracy demands of written diabetes materials*. Manuscript in Preparation, University of Northern Iowa.

CURRICULUM & OTHER MATERIALS

Joram, E. & Hartman, C. (2007). *Comparing heights to explore linear measurement; Analyzing changes in height as a function of age*. Web-based lessons on the National Council of Teachers of Mathematics Illuminations Web-site.
<http://illuminations.nctm.org/LessonDetail.aspx?ID=U171>

Osborne, H. (2007). *Health numeracy: How do patients handle the concept of quantity when it relates to their health?* This is an interview of my work on health numeracy. It appeared in this on-line publication, Boston.com, which is a subsidiary of the Boston Globe, on September 17, 2007.
http://www.boston.com/jobs/healthcare/oncall/articles/2007/09/19/health_numeracy/
It can also be found on Helen Osborne's Health Literacy website:
<http://www.healthliteracy.com/article.asp?PageID=6509>

CONFERENCE PRESENTATIONS

National and International Presentations:

Joram, E., Joseph, S., Yehieli, M., Roberts-Dobie, S., & Herbrandson, C. (October, 2008). *Diabetes Pamphlets: What are Their Demands on Health Numeracy?* Paper to be presented at the 136th Annual American Public Health Association, October 2008, San Diego, CA.

Joram, E., Herbrandson, K., Joseph, S., Yehieli, M., & Roberts-Dobie, S. (May, 2007) *The numeracy demands of written diabetes materials*. Paper presented at the Institute for Health Advancement's Sixth Annual Health Literacy Conference, Anaheim, CA.

- Roberts-Dobie, S., Joram, E., & Yehieli, M. (May, 2007) *Viewing patient-provider communication through the frame of reciprocal determinism*. Paper presented at the Institute for Health Advancement's Sixth Annual Health Literacy Conference, Anaheim, CA.
- Joram, E. (April, 2007). *Using concept maps to examine the relationship between epistemologies and beliefs about assessment in preservice and practicing teachers*. Paper presented at the Annual Conference of the American Educational Research Association, Chicago, IL.
- Joram, E., Gabriele, A. J., Henning, J. & Hawbaker, B. (April, 2006). *Preservice teachers' and their supervising teachers' beliefs about assessment practices*. Paper presented at the Annual Conference of the American Educational Research Association, San Francisco, CA.
- Joram, E., Gabriele, A. J., & Bertheau, M. (April, 2003) *Children's use of the reference point strategy*. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.
- Gabriele, A. J., Joram, E., & Morris, K. (April, 2003). *The effects of a reading incentive program on the amount of time students read for pleasure*. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.
- Joram, E. (April, 2000). Clashing epistemologies: *The practical theories of aspiring and practicing teachers, and professors*. Paper presented at the Annual Meeting of the American Educational Research Association, New Orleans, LA.
- Gabriele, A. J., Joram, E., Trafton, P., Thiessen, D., Rathmell, E. & Leutzinger, L. (1999, April). *Traveling along the path of mathematics reform: Changes in teachers' sense of efficacy and representations of their students' thinking*. Paper presented at the Annual Meeting of the American Educational Research Association, Montreal, Canada.
- Joram, E., Gabriele, A. (April, 1997). *Preservice teachers' prior beliefs: Transforming obstacles into opportunities*. Paper presented at the Annual Meeting of the American Educational Educational Research Association, Chicago, IL.
- Joram, E., Gabriele, A., Gelman, R., & Subrahmanyam, K. (April, 1996). *Building meaning for units of measurement: A "Personal Anchors" approach*. Paper presented at the Annual Meeting of the American Educational Research Association. New York, NY.
- Joram, E., Subrahmanyam, K., & Gelman, R. (June, 1995). *Developing a semantics of measurement: Establishing links between continuous quantities and their measurements*. Paper presented at the 25th Annual Symposium of The Jean Piaget Society, Berkeley, CA.

- Joram, E. & Resnick, L. B. (April, 1994). *The numeracy demands of popular texts: An examination of numbers in magazines for children, teenagers, and adults*. Paper presented at the Annual Meeting of the American Educational Research Association, New Orleans, LA.
- Gabriele, A., Joram, E., Resnick, L. B., Kassabian, A., & Trattner, T. (April, 1994). *Children's understanding of principles underlying mental computation strategies*. Paper presented at the Annual Meeting of the American Educational Research Association, New Orleans, LA.
- Joram, E., Raghavan, K. & Resnick, L. B. (April, 1992). *Students' reasoning about percents in everyday texts*. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Slotta, J., Chi, M. T. H. & Joram, E. (April, 1992). *An underlying materialistic commitment in naive thought*. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Lonka, K., Joram, E. & Bryson, M. (1991, August). *Conceptions of learning of novices and experts*. Paper presented at the Fourth European Conference for Research on Learning and Instruction. Turku, Finland.
- Lonka, K., Joram, E. & Read, D. (1991, August). *The development of expertise in designing psychology experiments*. Paper presented at the Fourth European Conference for Research on Learning and Instruction. Turku, Finland.
- Joram, E. (1990, May). *Conceptual and computational understanding of weighted mean problems*. Paper presented at the Annual Meeting of the American Educational Research Association, Boston, MA.
- Joram, E. (1989, May). *Subjective models of random sampling*. Paper presented at the Annual Meeting of the Canadian Psychological Association, Halifax, Canada.
- Joram, E., Lindsay, P. H., Bryson, M. & Woodruff, E. (1986, May). *The effects of editing on the planning phase of the writing process*. Paper presented at the Computers and Writing Conference, Pittsburgh, PA.
- Bryson, M., Lindsay, P. H., Joram, E., & Woodruff, E. (1986, May). *Augmented word processing: The influence of task characteristics and mode of production on writers' cognitions*. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Woodruff, E., Joram, E., Lindsay, P. H. & Bryson, M. (1986, May). *Some cognitive effects of word processors on enriched and average 8th grade writers*. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.

Local Presentations:

Joram, E., Joseph, S., Yehieli, M., Roberts-Dobie, S. & Herbrandson, K. (April, 2008). *What counts in health numeracy? Ten recommendations for best practice in the presentation of quantitative health information.* Paper presented at the 2008 Iowa Public Health Conference, Ames, IA

Joram, E., Gabriele, A. J., Henning, J., Hawbaker, B., & Carlson, N. (December, 2005). *Preservice and practicing teachers' beliefs about assessment.* Paper presented at the annual conference of the Iowa Educational Research and Evaluation Association, Waterloo, IA.

Joram, E. (October, 2005). *How to foster creativity in children.* Presentation at the Iowa Council of Talented and Gifted Conference, Des Moines, IA.

Joram, E., Gabriele, A. J., & Henning, J. (February, 2005). *Preservice teachers' beliefs about assessment.* Paper presented at the IEREA Conference, Waterloo, IA.

Joram, E. & Oleson, V. (2004). *Developing number sense for area by working with building plans.* Paper presented at the Iowa Council of Teachers of Mathematics Conference, Ames, IA

Joram, E. & Oleson, V. (2003, October). *Learning about area by using building plans.* Paper presented at the UNI Fall Math Conference, Cedar Falls, IA.

Joram, E. & Hartman, C. (2002, September). *"As people get older they get taller": Exploring second grade students' intuitions about functional relationships.* Paper presented at the UNI Fall Math Conference, Cedar Falls, IA.

Joram, E. (1997, November). *Making sense of percents in the middle grades.* Invited paper given at the UNI Fall Math Conference, Cedar Falls, IA.

Joram, E. (1996, March). *Building meaning for measurement.* Invited paper given to Sigma Xi, UNI Chapter. Cedar Falls, IA.

Joram, E. (1995, October). *A personal anchors approach to teaching measurement estimation.* Invited presentation to the Department of Mathematics, UNI. Cedar Falls, IA.

ACADEMIC AWARDS AND GRANTS

External

2008 Faculty Trainer on *Physical Activity and Nutrition among Rural Youth Project (PANARY)*. Submitted to the Wellmark Foundation. \$150,000 requested. Unfunded.

The main purpose of this project is to increase nutritional knowledge and fitness levels among rural youth. The letter of intent has been submitted, and we are waiting to see if Wellmark invites a full proposal. The PI is Dr. Michele Yeheili, and other faculty trainers include: Dr. Susan Dobie, Dr. Larry Hensley, Dr. Kevin Finn, Dr. Mark Grey, Dr. Susan Hudson, Dr. Donna Thompson, and Dr. Heather Olsen.

2008 PI – R03 Proposal to be submitted to National Institutes of Health: *“Patients’ Understanding of Discharge Instructions: Assessment and Intervention”* – To Be Submitted September 2008

The main purpose of this project is to investigate patients’ comprehension of the quantitative elements in discharge instructions and on the basis of this, to design more effective ways to communicate this information. \$50,000 will be requested each year for two years.

2007 Co-PI with Dr. Michele Yehieli – Federal Appropriation Request FY 2009. Promoting Health Literacy in Immigrant and Minority Populations. \$675,000 requested for two years. Unfunded

The primary purpose of this project is to research and develop effective ways to communicate health information regarding prevention and treatment of diseases to immigrant and minority populations, develop materials and training modules, and deliver them to health care workers across the state.

2006 PI – R03 Proposal submitted to National Institutes of Health: *“The Development of an Instrument to Assess Quantitative Health Literacy”* - Unfunded

The main purpose of this project is to develop an orally-administered assessment of quantitative health literacy, and to administer the instrument to health care providers (nurses) and patients to assess their levels of quantitative health literacy. \$50,000 was requested each year for two years.

2004 Proposal submitted to the US Department of Education Sciences, Cognition & Student Learning Research Grants: *“From Measurement to Measurement Sense: A Curriculum Replacement Unit”* - Unfunded

The main purpose of this project was to assess how measurement is currently taught in lower elementary grades, design and implement a curriculum replacement unit on measurement, and train teachers to use the replacement unit to examine its long-term effectiveness. \$676,000 was requested for 3 years.

2004-2006 Project Staff on Iowa Department of Education Title IIA Higher Education Grant: *“Helping Teachers Use Instructional Time Strategically”* - Funded

The main goal of this project was to instruct teachers on how to teach basic facts more efficiently and to provide them with professional development in how to teach geometry and measurement more effectively. I designed professional development workshops and delivered these to 20 first and second grade teachers over a period of two years. Funded

1999-2000 PI - First in the Nation in Education (FINE Foundation) Grant: "*Children's Understanding of the Reference Point Strategy for Measurement Estimation*" - \$20,000

The purpose of this project was to develop a new method for teaching measurement, and assess its efficacy. A quasi-experiment was carried out to examine the effectiveness of this method of teaching measurement estimation. Funded

1995 - 1995 Co-PI - Spencer Foundation Small Grant to Rochel Gelman & Elana Joram – "*The Birdirectional Mapping Hypothesis: Mapping the Route from Number to Quantity and Back*" - \$8800

The purpose of this project was to develop a theoretical model of measurement estimation, and to design and assess a method of instruction based on this model. Funded

1990 - 1992 PI - Social Sciences & Humanities Research Council of Canada Postdoctoral Fellowship – "*Numeracy as Cultural Practice*" \$52,000

The purpose of this project was to examine the numeracy demands of everyday print materials.

Internal

2008 Adele Whitenack Davis Faculty Research in Gerontology Awards – Project Grant Request – "*Enhancing Elderly Patients' Understanding of Discharge Instructions*" Unfunded

2008 Faculty Mini-Research Award – "*Supporting Patients' Understanding of Discharge Instructions*"

2008 College of Education Faculty Award for Outstanding Scholarship/Research

2007 Carver Fellowship

2007 UNI Four Week Summer Fellowship – "*Health Literacy as Cultural Practice: An Examination of Numbers in Health Media*"

2007 UNI Professional Development Assignment – "*Preservice and Practicing Teachers' Beliefs about Learning, Knowledge, and Educational Research Within and Across Domains*"

- 2004 UNI Four Week Summer Fellowship – “Grant Proposal Preparation on Middle School Mathematics Instruction”
- 2002 Rosa Janssen & Henry and Nancy Meyer Scholarly Seed Grant: “Preservice Teachers’ and their Supervising Teachers’ Beliefs about Assessment”
- 2000 UNI Professional Development Leave – “Promoting the Construction of Conceptual Scales: An Innovative Method for Teaching Measurement Estimation”
- 1999 UNI Eight Week Summer Fellowship: “The Development of Preservice Teachers’ Practical Theories of Learning and Teaching”
- 1998 Rosa Janssen & Henry and Nancy Meyer Scholarly Seed Grant: “The Development of Preservice Teachers’ Practical Theories of Learning and Teaching”
- 1997 UNI Minigrant – “Focusing the Lens on Classroom Interaction”
- 1996 UNI Four Week Summer Fellowship

PROFESSIONAL SERVICE

- 2008- Reviewer for *Teaching & Teacher Education*
- 2008 External Reviewer for the Israel Science Foundation Grants
- 2006- Reviewer for *American Educational Research Journal*
- 2006- Reviewer for *Mathematics Teaching in the Middle School*
- 2005 External Reviewer for Social Sciences and Humanities Research Council of Canada Standard Research Grants
- 1998-2006 Reviewer of proposals for annual meetings of the American Educational Research Association, Divisions C & K
- 2001- Contributing Editor for *Teaching & Learning: The Journal of Natural Inquiry and Reflective Practice*
- 2000- Reviewer for *Review of Educational Research*
- 1994- Reviewer for *Journal for Research in Mathematics Education*
- 2005- Reviewer for *Cognition & Instruction*

- 1995-2006 Guest Reviewer for: *Journal of the Learning Sciences, American Educational Research Journal, and Educational Policy*
- 1999 Discussant for Division K, Annual Meeting of the American Educational Research Association, Montreal, Canada
- 1998 Ad Hoc Reviewer for *American Educational Research Journal*
- 1990 Chair of Division C, Reading and Language, Selection Committee for Annual Meeting of the American Educational Research Association

UNI SERVICE:

- 2008-2009 Chair, College of Education Faculty Senate
- 2008-2009 Department Volunteer: *Imagine the Impact* Foundation Program
- 2008 Panel member on “Academic Life and Expectations” session for parents of new transfer students at UNI
- 2008 Participated in Professional Development Day for Teacher Education Faculty
- 2008 Participated in Group Discussions of Quality Graduate Education
- 2008 Member of the Holocaust and Genocide Studies Committee
- 2007 Compass Presentation to UNI Doctoral Students on Endnote
- 2006 Member of Dept. of C & I Search Committee for El. Ed. Position
- 2006-2008 Member of College of Education Senate
- 2006 (spring) Department of Ed. Psych. & Foundations, Acting Chair
- 2006 Represented University of Toronto President Naylor at President Allen’s Installation
- 2006 Member of Intensive Study Area, Doctoral Program
- 2005 Representative of Canada at Senator Grassley’s Ambassadors’ Tour
- 2005 Member of the Reorganization Task Force, College Education
- 2005 Department of Ed. Psych. & Foundations, Vice Chair
- 2004 Member of Professional Practices Committee

2004	Evaluated Scholarship Applications for Student Organization Phi Eta Sigma
2003-2008	Member of College of Education Scholarship Committee
2003	Member of the COE Professional Sequence Task Force
2003-2004	Chair, Learning Team, Department of Ed. Psych. & Foundations
2003	Member of MAE: Teaching Committee
1995-2003	Co-coordinator of the MAE: Educational Psychology Program
2000	Representative for COE Graduate Student Academic Appeals Board
2000-2008	Member of Professional Assessment Committees (PAC)
2000	Presented at Dr. Sue Etscheidt's Dissertation Seminar
1999	Gave a presentation to the MPLS Faculty about applying for Undergraduate Research/Experiential Learning projects
1999	Search Committee Chair, Department of Ed. Psych. & Foundations
1999	Search Committee Member, Director of Teacher Education, COE
1999	With Dr. Anthony Gabriele, took over Dr. Dedrick's 200:214 course
1999	Taught a class about Canada to Cheryl Timion's 6 th grade class at the MPLS for American Education Week
1998	Member of planning committee for visit of 14 Chilean teacher educators; Gave two presentations at the UNI seminar for leadership in the innovation of teacher preparation in Chile
1998	In collaboration with Dr. Anthony Gabriele, designed a unit on classroom management for secondary education majors in the COE
1998-2004	Chair of Department of Ed. Psych. & Foundations Family Weekend
1998-	Department Library Liason
1997-1999	Co-coordinator of Undergraduate Research Projects/Experiential Learning, COE
1996	Member of Undergraduate Research/Experiential Learning Committee

- 1996 Member of Professional Development Committee
- 1996-1998 Chair of the Learning Team, Dept. of Ed. Psych. & Foundations
- 1995 Presented workshops to 6th-grade classes in two local schools on writing with computers as part of American Education Week with Dr. David Landis.
- 1995 Gave invited seminar for Dr. Peggy Ishler's graduate course in Curriculum & Instruction, entitled: *Applications of Cognitive Science to Education*

MEMBERSHIPS:

American Public Health Association
American Educational Research Association
International Society of the Learning Sciences
Iowa Council of Teachers of Mathematics
National Council of Teachers of Mathematics

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