

CURRICULUM VITA

Robert C. delMas

Department of Educational Psychology
Quantitative Methods in Education
University of Minnesota, Twin Cities
250 Educational Sciences Building
56 East River Road
Minneapolis, MN 55455

May 2015

GRADUATE EDUCATION

Ph.D. (1988), University of Minnesota - Department of Educational Psychology

COURSE CONCENTRATION: Problem Solving and Decision Making

SUPPORTING AREAS: Statistics (Theoretical & Applied), Ethology of Human Behavior

THESIS: The Effect of Activity-Based Instruction and Directed Evaluation of Predictions on Misconceptions of Probability

UNDERGRADUATE EDUCATION

B.A. (1979), University of Minnesota - College of Liberal Arts

MAJOR: Child Psychology

COURSE CONCENTRATION: Cognitive Development

ACADEMIC EMPLOYMENT HISTORY

2006-present	Associate Professor, Department of Educational Psychology, Quantitative Methods in Education, University of Minnesota, Twin Cities.
2004-2006	Associate Professor of Statistics and Mathematics, General College, University of Minnesota, Twin Cities.
1998-2004	Assistant Professor of Statistics and Mathematics, General College, University of Minnesota, Twin Cities.
1992-1998	Director of Research and Evaluation, General College, University of Minnesota
1990-1992	Assistant Professor of Psychology, Social Science Division, Truman State University (formerly, Northeast Missouri State University).
1987-1990	Graduate Research Fellow in the Office of Research and Evaluation, General College, University of Minnesota, Twin Cities.

COURSES

- EPSY 3133 Practicum: Service Learning, Psychology of Multiculturalism in Education. Ninety hours of service learning in multicultural communities. Students work with children, youth, or adults in ESL tutoring or after-school youth programs. Sensitivities/competencies related to multicultural issues in U.S. society.
- EPSY 3303 Educational Psychology Undergraduate Research Practicum. Supervised research experience. Students are matched with University faculty members and their research projects.
- EPSY 5244 Survey Design, Sampling, and Implementation. Survey methods, including mail, phone, and Web-based/e-mail surveys. Principles of measurement, constructing questions/forms, pilot testing, sampling, data analysis, reporting. Students develop a survey proposal and a draft survey, pilot the survey, and develop sampling/data analysis plans.
- EPSY 8261 Statistical Methods I: Probability and Inference. Advanced theory, derivations of quantitative statistics. Descriptive statistics, probability, normal distribution. One-/two-sample hypothesis tests, confidence intervals. One-way analysis of variance, follow up tests.
- EPSY 8262 Statistical Methods II: Regression and the General Linear Model. Analysis of variance designs (two-/three-way), repeated measures, correlation, simple/multiple regression methods, non-parametric procedures, multivariate analyses.

HONORS AND AWARDS

- 2010 Fellow of the American Statistical Association
- 2010 Multimedia Educational Resource for Learning and Online Teaching (MERLOT) Award for Exemplary Online Learning Resources for the NSF-funded Assessment Resource Tools for Improving Statistical Thinking (ARTIST) project (NSF DUE-0206571)
- 2007 Teachers of English to Speakers of Other Languages Association (TESOL) Distinguished Research Award with M. Bigelow, K. Hansen, and E. Tarone, for "Literacy and the processing of oral recasts in SLA" published in the *TESOL Quarterly*.
- 1998 University of Minnesota Technology Enhanced Learning (TEL) Innovation Award: Co-recipient with Dr. Joan Garfield
- 1997 Distinguished Teaching Award, University College (University of Minnesota).

GRANTS AWARDED

- 2011-2016 Co-principal investigator with Tim Jacobbe (PI, Univ. of Florida), Brad Hartlaub (Co-PI, Kenyon College), and Jeff G. Haberstroh (Co-PI, ETS) for the *LOCUS: Levels of Conceptual Understanding in Statistics* project (DRL-1118168). Total award: \$2,078,088. University of Minnesota subcontract: \$338,328.

- 2011-2014 Co-principal investigator with Joan Garfield and Andrew Zieffler for the Evaluation and Assessment of Teaching and Learning About Statistics (e-ATLAS) project (DUE-1043141). Total Award: \$91,970.
- 2013 How to Implement a Randomization-based Introductory Statistics Course - The CATALST curriculum. Indirect Cost Recovery Award, delMas, R. \$2,988
- 2011 Validation study of assessments of statistical learning outcomes. Indirect Cost Recovery Award, Garfield, J., delMas, R., & Zieffler, A. \$2,901
- 2010 Development of the Statistics Teaching Inventory (STI) for an International Audience. Indirect Cost Recovery Award, Zieffler, A., Garfield, J., & delMas, R. \$3,000
- 2010 Developing materials to propose a national center for evaluation of statistics curriculum projects. Indirect Cost Recovery Award, Zieffler, A., Garfield, J., & delMas, R. \$2,722
- 2010 Adapting the Statistics Teaching Inventory for Online or Hybrid Classes. Indirect Cost Recovery Award, Everson, M., delMas, R., & Zieffler, A. \$2,722
- 2010-2011 Principal investigator (NSF DUE-0942408) for the *Statistics Teaching Using Resampling and Randomization* (STURR) project. \$49,995
- 2009 Investigating the relationship between teachers' beliefs, teaching practice, and student learning outcomes in introductory statistics courses: A pilot study. Indirect Cost Recovery Award, Garfield, J., delMas, R., & Zieffler, A. \$2,564
- 2008 Validation of the Statistics Teaching Inventory (STI). Indirect Cost Recovery Award, Garfield, J., delMas, R., & Zieffler, A. \$2,400
- 2008-2011 Co-principal investigator with Dr. Joan Garfield and Dr. Andrew Zieffler (University of Minnesota) (NSF DUE-0814433), *Change Agents for Teaching and Learning Statistics (CATALST)*. \$318,290
- 2008-2009 Co-principal investigator with Dr. Joan Garfield and Dr. Andrew Zieffler (University of Minnesota) (NSF DUE-0808862), *Statistics Teachers Educational Practice Survey (STEPS)*. \$71,887
- 2006-2007 Co-principal investigator with Dr. Joan Garfield (University of Minnesota) (NSF DUE-0535912), *Adapting and Implementing Innovative Materials in Statistics Courses (AIMS)*. \$102,090
- 2002-2004 Co-principal investigator with Dr. Joan Garfield (University of Minnesota) and Dr. Beth Chance (California Polytechnic University) (NSF DUE-0206571), *The Web-based ARTIST Project*. \$501,218
- 1998-2000 Co-principal investigator with Dr. Joan Garfield (University of Minnesota) on (NSF DUE-9752523), *Tools for Teaching and Assessing Statistical Inference*. NSF awarded \$100,000
- 1996-1997 Grant in Aid University of Minnesota graduate school with Dr. Joan Garfield (principal investigator). Exploring the role of computer simulations in developing statistical reasoning.

- 1992 Faculty Grant for Excellence in the Use of Active Learning, Northeast Missouri State University. Award of \$1,000 to continue the development of instructional approaches that promote active learning in the classroom.
- 1992 Faculty Research Grant, Northeast Missouri State University. Award of \$3,000 to fund the purchase of video equipment and summer stipend for undergraduate research assistants to conduct a study of sharing and trading behavior in preschool-age children.
- 1991-1992 Instructional Improvement Grant, Northeast Missouri State University. Award of \$3,000 to develop a computer application to help students gain a better understanding of concepts in the design of psychology experiments.
- 1988-1989 Project MinneMac, University of Minnesota, with Joan Garfield (principal investigator). Received hardware and software to develop an interactive tutorial for teaching statistical concepts of probability.

MANUSCRIPTS IN PROGRESS

delMas, R., Zieffler, A., Brown, E., Huberty, M., Brown, J. Statistical thinking of tertiary students' enrolled in a modeling- and simulation-based statistics course (to be submitted to the *Journal of Research in Mathematics Education*).

delMas, R. & Sabbag, A. Trends in students' conceptual understanding of statistics. We are currently analyzing 9 years (N > 25,000) of data for the Comprehensive Assessment of Outcomes in Statistics (CAOS) using CFA and IRT analyses to look at psychometric properties and evidence of structural invariance in the assessment (to be submitted to *Structural Equation Modeling: A Multidisciplinary Journal*).

Jacobbe, T., Whitaker, D., **delMas, R.**, Case, C., Haberstroh, J., Foti, S., & Hartlaub, B. Establishing the validity and reliability of the LOCUS assessments (under review). *Journal of Research in Mathematics Education*.

Nam, K. A. & **delMas, R.** Intercultural interactions in STEM: Undergraduates' experience with ITAs (under review). *Research in Higher Education*.

PUBLICATIONS: REFEREED JOURNALS

- 1) Nam, K. A., Weaver, G., & **delMas, R.** (in press). Major Ethical Issues in the Field of Intercultural Relations: An Exploratory Study. *International Journal of Intercultural Relations*.
- 2) Garfield, J., **delMas, R.** & Zieffler, A. (2012). Developing statistical modelers and thinkers in an introductory, tertiary-level statistics course. *ZDM: The International Journal on Mathematics Education*, 44 (7), 883-898. doi: 10.1007/s11858-012-0447-5.
- 3) Zieffler, A., Park, J., Garfield, J., **delMas, R.**, Bjornsdottier, A. (2012). The Statistics Teaching Inventory: A Survey on Statistics Teachers' Classroom Practices and Beliefs. *Journal of Statistics Education*, 20(1).
- 4) Kang, H., Lundeberg, M., Wolter, B. & **delMas, R.**, Armstrong, N., Borsari, B., et al. (2012). Gender differences in student performance in large lecture classrooms using personal response systems ("clickers") with case studies. *Learning, Media and Technology*, 37(1), 53-76.

- 5) Lundeberg, M., Kang, H., Wolter, B. & **delMas, R.** (2011). Context Matters: Increasing Understanding with Interactive Clicker Case Studies. *Educational Technology Research & Development*, 59(5), 645-671.
- 6) Zieffler, A., Garfield, J., **delMas, R. C.**, Le, L., Isaak, R., Bjornsdottir, A. & Park, J., (2011). Publishing in SERJ: An analysis of papers from 2002-2009. *Statistics Education Research Journal*, 10(2). [http://iase-web.org/documents/SERJ/SERJ10\(2\)_Zieffler.pdf](http://iase-web.org/documents/SERJ/SERJ10(2)_Zieffler.pdf)
- 7) Hjalmarson, M. A., Moore, T. J. & **delMas, R.** (2011). Statistical analysis when the data is an image: Eliciting student thinking about sampling and variability. *Statistics Education Research Journal*, 10(1), 15-34. [http://iase-web.org/documents/SERJ/SERJ10\(1\)_Hjalmarson.pdf](http://iase-web.org/documents/SERJ/SERJ10(1)_Hjalmarson.pdf)
- 8) Garfield, J. & **delMas, R.** (2010). A website that provides resources for assessing students' statistical literacy, reasoning, and thinking. *Teaching Statistics*, 32(1), 2-7.
- 9) Zieffler, A., Garfield, J., **delMas, R.**, & Reading, C. (2008). A framework to support research on informal inferential reasoning. *Statistics Education Research Journal*, 7(2), 40-58. [http://iase-web.org/documents/SERJ/SERJ7\(2\)_Zieffler.pdf](http://iase-web.org/documents/SERJ/SERJ7(2)_Zieffler.pdf)
- 10) **delMas, R.**, Garfield, J., Ooms, A., & Chance, B. (2007). Assessing students' conceptual understanding after a first course in statistics. *Statistics Education Research Journal*, 6(2), 28-58. [http://iase-web.org/documents/SERJ/SERJ6\(2\)_delMas.pdf](http://iase-web.org/documents/SERJ/SERJ6(2)_delMas.pdf)
- 11) Bigelow, M., **delMas, R.**, Hansen, K. and Tarone, E. (2006). Literacy and the processing of oral recasts in SLA. *TESOL Quarterly*, 40(4), 665-689. (Recipient of the 2007 TESOL Distinguished Research Award)
- 12) Daniels, K. C., Rettig, K., & **delMas, R.** (2006). Alternative formulas for distributing parental incomes at divorce. *Journal of Family Economic Issues*, 27(1), 4-26.
- 13) **delMas, R.**, & Liu, Y. (2005). Exploring students' conceptions of the standard deviation. *Statistics Education Research Journal*, 4(1), 55-82. [http://iase-web.org/documents/SERJ/SERJ4\(1\)_delMas_Liu.pdf](http://iase-web.org/documents/SERJ/SERJ4(1)_delMas_Liu.pdf)
- 14) **delMas, R.** (2002). Statistical literacy, reasoning, and thinking: A commentary. *Journal of Statistics Education*, 10(3). http://www.amstat.org/publications/jse/v10n3/delmas_discussion.html .
- 15) Cramer, K. A., Post, T. R., & **delMas, R.** (2002). Initial fraction learning of fourth and fifth graders using commercial curricula or the rational number project curriculum. *Journal for Research in Mathematics Education*, 33(2), 111-144.
- 16) Peterson, S. & **delMas, R.** (2001-02). Effects of career-decision-making self-efficacy and degree utility on student persistence: A path analytic study. *Journal of College Student Retention: Research, Theory, and Practice*, 3(3), 285-299.
- 17) **delMas, R.** (2001). What Makes the Standard Deviation Larger or Smaller? *Statistics Teaching and Resource Library (STAR)*. <http://www.causeweb.org/repository/StarLibrary/activities/delmas2001/> .
- 18) Adler-Kassner, L., Reynolds, T., & delMas, R. (1999). Studying a basic writing

program: Problems and possibilities. *Research and Teaching in Developmental Education*, 16(1), 33-40.

- 19) **delMas, R.**, Garfield, J., & Chance, B. (1999). A model of classroom research in action: Developing simulation activities to improve students' statistical reasoning. *Journal of Statistics Education*, 7 (3).
<http://www.amstat.org/publications/jse/secure/v7n3/delmas.cfm> .
- 20) Peterson, S. & **delMas, R.** (1998). The component structure of career decision-making self-efficacy for underprepared college students. *Journal of Career Development*, 24(3), 209-255.
- 21) Wilcox, K., **delMas, R.**, Stewart, B., Johnson, A., & Ghery, D. (1997). The "Package Course" experience and developmental education at the General College, University of Minnesota. *Journal of Developmental Education*, 20(3), 18-26.
- 22) Misale, J., Gillette, D., & **delMas, R.** (1996). An interdisciplinary, computer-centered approach to active learning. *Teaching of Psychology*, 23(3), 181-184.
- 23) Gillette, D. & **delMas, R.** (1992). Psycho-economics: Studies in decision-making. *Classroom Experiments* 1(2).
<http://www.marietta.edu/~deleemeg/expnom/f92.html#gill> .
- 24) Schmitz, C. C. & **delMas, R. C.** (1991). Determining the validity of placement exams for developmental college curricula. *Applied Measurement in Education*, 4(1), 37-52.
- 25) **delMas, R.** and Bart, W.M. (1989). The role of an evaluation exercise in the resolution of misconceptions of probability. *Focus on Learning Problems in Mathematics*, 11(3), 39-54.

PUBLICATIONS: BOOKS

Contributed to:

Zieffler, A., & Catalysts for Change (2012). *Statistical thinking: A simulation approach to modeling uncertainty*. Minneapolis: Catalyst Press.

PUBLICATIONS: BOOK CHAPTERS

- 1) **delMas, R.**, Garfield, J. & Zieffler, A. (2014). Using TinkerPlots™ to develop tertiary students' statistical thinking in a modeling-based introductory statistics class. In T. Wassong, D. Frischemeier, P. R. Fischer, R. Hochmuth and P. Bender (Eds.), *Mit Werkzeugen, Mathematik und Stochastik lernen - Using tools for Learning Mathematics and Statistics* (pp. 405-420). Wiesbaden, Germany: Springer Spektrum.
- 2) Garfield, J., **delMas, R.** & Zieffler, A. (2010). Assessing important learning outcomes in introductory tertiary statistics courses. In P. Bidgood, N. Hunt and F. Jolliffe (Eds.), *Assessment Methods in Statistical Education: An International Perspective* (pp. 75-86). Chichester, UK: John Wiley & Sons.
- 3) **delMas, R.**, & Liu, Y. (2007). Students' conceptual understanding of the standard deviation. In M. C. Lovett and P. Shah (Eds.), *Thinking with Data (Proceedings of the*

33rd Carnegie Symposium on Cognition) (pp. 87-116). New York: Erlbaum.

- 4) Garfield, J., **delMas, R.**, & Chance, B. (2007). Using students' informal notions of variability to develop an understanding of formal measures of variability. In M. C. Lovett and P. Shah (Ed.), *Thinking with Data (Proceedings of the 33rd Carnegie Symposium on Cognition)* (pp. 117-147). New York: Erlbaum.
- 5) **delMas, R. C.** (2005). Teaching Statistics to Underprepared College Students. In J. Garfield (Ed.), *MAA Notes #65: Innovations in Teaching Statistics* (pp. 51-63). Washington, D.C.: Mathematical Association of America.
- 6) **delMas, R.** (2004). A comparison of mathematical and statistical reasoning. In D. Ben-Zvi and J. Garfield (Eds.), *The Challenge of Developing Statistical Literacy, Reasoning, and Thinking* (pp. 79-95). Dordrecht, The Netherlands: Kluwer Academic Publishers.
- 7) Chance, B., **delMas, R.**, & Garfield, J. (2004). Reasoning about sampling distributions. In D. Ben-Zvi and J. Garfield (Eds.), *The Challenge of Developing Statistical Literacy, Reasoning, and Thinking* (pp. 295-323). Dordrecht, The Netherlands: Kluwer Academic Publishers.
- 8) Wambach, C. & **delMas, R. C.** (1998). Developmental Education at a Public Research University. In J. L. Higbee and P. L. Dwinell (Eds.), *Developmental Education: Preparing Successful College Students* (pp. 63-72). National Resource Center for the First-Year Experience and Students in Transition, University of South Carolina.

PUBLICATIONS: CONFERENCE PROCEEDINGS

- 1) Zieffler, A., **delMas, R. C.**, Garfield, J. & Brown, E. (July, 2014). The symbiotic, mutualistic relationship between modeling and simulation in developing students' statistical reasoning about inference and uncertainty. In K. Makar, B. de Sousa, & R. Gould (Eds.), *Sustainability in statistics education. Proceedings of the Ninth International Conference on Teaching Statistics (ICOTS9, July, 2014), Flagstaff, Arizona, USA*. Voorburg, The Netherlands: International Statistical Institute.
http://iase-web.org/icots/9/proceedings/pdfs/ICOTS9_8B1_ZIEFFLER.pdf
- 2) **delMas, R.** (July, 2014). Trends in students' conceptual understanding of statistics. In K. Makar, B. de Sousa, & R. Gould (Eds.), *Sustainability in statistics education. Proceedings of the Ninth International Conference on Teaching Statistics (ICOTS9, July, 2014), Flagstaff, Arizona, USA*. Voorburg, The Netherlands: International Statistical Institute.
http://iase-web.org/icots/9/proceedings/pdfs/ICOTS9_3C1_DELMAS.pdf
- 3) Park, J., **delMas, R.**, Zieffler, A., Garfield, J. (August, 2011). A Research-Based Statistics Course for Tertiary Students. Proceedings of 58th Congress of the International Statistics Institute (ISI), Dublin, Ireland.
<http://2011.isiproceedings.org/papers/450364.pdf>
- 4) Garfield, J., **delMas, R.**, & Zieffler, A. (July, 2010). *Developing Tertiary-Level Students' Statistical Thinking through the Use of Model-Eliciting Activities*. Proceedings of the 8th International Conference on Statistics Education (ICOTS-8), Ljubljana, Slovenia.
http://www.stat.auckland.ac.nz/~iase/publications/icots8/ICOTS8_8B3_GARFIELD.pdf

- 5) Zieffler, A. , Garfield, J., **delMas, R.** & Bjornsdottir, A. (July, 2010). *Development of an Instrument to Assess Statistical Thinking*. Proceedings of the 8th International Conference on Statistics Education (ICOTS-8), Ljubljana, Slovenia.
http://www.stat.auckland.ac.nz/~iase/publications/icots8/ICOTS8_5F2_ZIEFFLER.pdf
- 6) Garfield, J., **delMas , R.**, Ooms , A., Chance , B. (2008). Assessment Resource Tools for Assessing Students' Statistical Reasoning, and Thinking. In D. Deeds and B. Callen (Eds.), *Proceedings of the National STEM Assessment Conference*. Drury University, pp. 93-99.
- 7) Garfield, J., Zieffler, A., **delMas, R.**, Chance, B., Hilton, S., & Lesser, L. (2007). Practical issues in conducting statistics education research. In *Papers Presented at the 2006 Joint Statistical Meetings* (pp. 2297-95). Seattle, WA, August 6-10, 2006.
- 8) **delMas, R.**, Ooms, A., Garfield, J., & Chance, B. (2006). Assessing Students' Statistical Reasoning. *Proceedings of the Seventh International Conference on Teaching Statistics*. Salvador de Bahia, Brazil: International Association of Statistics Education and International Statistical Institute.
http://www.stat.auckland.ac.nz/~iase/publications/17/6D3_DELM.pdf
- 9) **delMas, R.**, Garfield, J., & Ooms, A. (2005). Using Assessment to Study Students' Difficulty Reading and Interpreting Graphical Representations of Distributions. In K. Makar (Ed.), *Proceedings of the Fourth International Research Forum on Statistical Reasoning, Literacy, and Reasoning* (on CD). Auckland, New Zealand: University of Auckland.
- 10) **delMas, R.**, & Liu, Y. (2003). Exploring Students' Understanding of Statistical Variation. In Lee, Carl(Ed.), *Reasoning about Variability: Proceedings of the Third International Research Forum on Statistical Reasoning, Literacy, and Reasoning* (on CD). Mt. Pleasant, MI: Central Michigan University.
- 11) **delMas, R.**, Garfield, J., & Chance, B. (1998). Assessing The Effects Of A Computer Microworld On Statistical Reasoning. *Proceedings of the Fifth International Conference on Teaching Statistics* (pp. 1083-1089). Nanyang Technological University, Singapore: International Statistical Institute.
- 12) **delMas, R.** (1997). A framework for the development of software for teaching statistical concepts. In J. B. Garfield and G. Burril (Eds.), *Research on the Role of Technology in Teaching and Learning Statistics: Proceedings of the 1996 International Association of Statistics Education (IASE) Round Table Conference* (pp. 85-99). University of Granada, Spain. Voorburg, The Netherlands: International Statistical Institute.
- 13) **delMas, R. C.** & Garfield, J. G. (1991). Using multiple items to assess misconceptions. In *Research Papers from ICOTS III*, International Study Group for Research in Learning Probability and Statistics.
- 14) Garfield, J. G. & **delMas, R. C.** (1991). Students' conceptions of probability. In D. Vere-Jones (Ed.) *Proceedings of the Third International Conference on Teaching Statistics*, Volume 1 (pp. 338-339). Voorburg, the Netherlands: International Statistical Institute.

- 15) Garfield, J. & **delMas, R. C.** (1989). Reasoning about chance events: Assessing and changing students' concepts of probability. In Carolyn A. Maher, Gerald A. Goldin, and Robert B. Davis (eds.), *Proceedings of the Eleventh Annual Meeting of the National Chapter of the International Group for the Psychology of Mathematics Education (PME)*, Volume 2 (pp. 189-195). Rutgers University.

SOFTWARE

delMas, R. (2001). *Sampling SIM* (version 5).
http://www.tc.umn.edu/~delma001/stat_tools/

Garfield, J. and **delMas, R. C.** (1989). *Coin Toss*. Listed in Lauren Malmon (ed.), *Project MinneMac Software Catalog* (First Edition), Fall/Winter 1989 (pp 112 – 113). Project MinneMac, 125 Shepherd Laboratories, University of Minnesota.

CONFERENCE PRESENTATIONS

- 1) Garfield, J., Fry, E., Zieffler, A. & delMas, R. (May, 2015). e-ATLAS: Evaluation and Assessment of Teaching and Learning About Statistics. Poster presented at the United States Conference on Teaching Statistics (USCOTS), State College, PA.
- 2) Jacobbe, T., Whitaker, D., **delMas, R.**, Case, C., Haberstroh, J., Foti, S. & Hartlaub, B. (May, 2015). Establishing the Validity and Reliability of Assessments of Statistical Understanding. Poster presented at the United States Conference on Teaching Statistics (USCOTS), State College, PA.
- 3) Garfield, J., **delMas, R.**, Zieffler, A., Fry, E. B., Pearl, D. (January, 2015). Evaluation and Assessment of Teaching and Learning About Statistics (e-ATLAS). Poster presented at the Joint Mathematics Meeting (JMM), San Antonio, TX.
- 4) **delMas, R.**, Brown, E. & Zieffler, A. (April, 2014). The Symbiotic role of Modeling and Simulation for Developing Students' Statistical Reasoning Related to Inference and Uncertainty. Peer-reviewed paper presented at the Annual Meeting of the National Council of Teachers of Mathematics (NCTM), New Orleans, LA.
- 5) Jacobbe, T., Haberstroh, J., **delMas, R.**, Hartlaub, B., Whitaker, D., Case, C. & Foti, S. (April, 2014). Establishing the content validity of LOCUS through evidence centered design. Paper presented at the Annual conference of the American Educational Research Association (AERA), Philadelphia, PA.
- 6) Jacobbe, T., **delMas, R.**, Haberstroh, J., Hartlaub, B., Whitaker, D., Case, C. & Foti, S. (April, 2014). LOCUS: A measure of students' understanding of statistics. Poster presented at the Annual conference of the American Educational Research Association (AERA), Philadelphia, PA.
- 7) **delMas, R.** (August, 2013). *LOCUS assessment evidence model and project overview*. Presentation in the topic-contributed paper session *Assessing the Statistical Understanding and Reasoning in K-12: The Levels of Conceptual Understanding in Statistics (LOCUS) Project* at the Joint Statistical Meetings (JSM), Montreal, QE.
- 8) **delMas, R.**, Zieffler, A., & Brown, E. (2013). *Students' emerging reasoning with uncertainty in a randomization-based first course in statistics at the tertiary level*. Presentation at the Eighth International Research Forum on Statistical Reasoning, Thinking, and Literacy, Duluth, MN.

- 9) **delMas, R.**, Fry, E., Le, L. & Sabbag, A. (May, 2013). *Evaluating the Impact of Change in Curriculum and Teaching*. Breakout session talk presented at the United States Conference on Teaching Statistics, Raleigh-Durham, NC.
- 10) Fry, E., Garfield, J., **delMas, R.**, & Zieffler, A. (2013, January). *e-ATLAS: Evaluation and assessment of teaching and learning about statistics*. Invited poster presented at the Joint Mathematics Meetings (JMM), San Diego, CA.
- 11) Fry, E., Ziegler, L., Garfield, J., Zieffler, A., & **delMas, R.** (2013, January). *The CATALST Course: Using randomization-based methods in an introductory statistics course*. Invited panel presentation at the Joint Mathematics Meetings (JMM), San Diego, CA.
- 12) Garfield, J., **delMas, R.** & Zieffler, A. (2013, January). *Collaborative Research: The CATALSTS Project, Change Agents for Teaching and Learning Statistics*. Refereed poster presented at the Transforming Undergraduate Education in STEM: Building a Community to Transform Undergraduate STEM Education conference sponsored by the TUES division of the National Science Foundation, Washington, DC.
- 13) **delMas, R.** (2012, August). *Publishing your Statistics Education Research*. Panel session presentation at the Joint Statistical Meetings (JSM), San Diego, CA.
- 14) Park, J. & **delMas, R.** (2012, August). *Development and validation of an instrument to assess college students' statistical inference: An argument-based approach to validation*. Contributed poster presented at the Joint Statistical Meetings (JSM), San Diego, CA.
- 15) **delMas, R.** (January 2012). *The Statistics Taught Using Resampling and Randomization (STURR) Project*. Invited poster presented at the NSF Division of Undergraduate Education session of the Joint Mathematics Meetings (JMM), Boston, MA.
- 16) Garfield, J., **delMas, R.**, & Zieffler, A. (January 2012). *Evaluation and Assessment of Teaching and Learning About Statistics (e-ATLAS)*. Invited poster presented at the NSF Division of Undergraduate Education session of the Joint Mathematics Meetings (JMM), Boston, MA.
- 17) Garfield, J., **delMas, R.**, Zieffler, A., Rossman, A., Chance, B., Holcomb, J. & Cobb, G. (January 2012). *Change Agents for Teaching and Learning Statistics (CATALST)*. Invited poster presented at the NSF Division of Undergraduate Education session of the Joint Mathematics Meetings (JMM), Boston, MA.
- 18) Park, J. & **delMas, R.** (January 2012). *Development and validation of an instrument to assess college student's statistical inference-an argument based approach to validity: Preliminary report*. Presented at the Joint Mathematics Meetings (JMM), Boston, MA.
- 19) Ziegler, L., Zieffler, A., Garfield, J., **delMas, R.**, Rossman, A., Chance, B., Holcomb, H., Cobb, G., Isaak, R., & Le, L. (August, 2011). *CART in CATALST*. Invited talk presented at the Joint Statistical Meetings (JSM), Orlando, FL.
- 20) Isaak, R., Garfield, J., **delMas, R.**, Zieffler, A., Rossman, A., Chance, B., Holcomb, H., Cobb, G., Everson, M., Le, L. & Ziegler, L. (August, 2011). *The course as a textbook*. Invited talk presented at the Joint Statistical Meetings (JSM), Orlando, FL.
- 21) Zieffler, A., **delMas, R.** & Garfield, J. (July, 2011). *How do tertiary students reason about samples and sampling in the context of a modeling and simulation approach to informal inference?* Paper presented at the Seventh International Collaboration on Statistical Reasoning, Thinking, and Learning (SRTL), Texel, The Netherlands.

- 22) **delMas, R.** (May, 2011). *It takes a village: Future directions for statistics education research*. Invited plenary talk presented at the United States Conference on Teaching Statistics, Raleigh-Durham, NC.
- 23) Garfield, J., Zieffler, A., **delMas, R.**, Park, J., Bjornsdottir, A. & Isaak, R. (April, 2011). *Assessing what students really understand about statistical inference*. Poster presentation at the Annual conference of the American Educational Research Association (AERA), New Orleans, LA.
- 24) Garfield, J., **delMas, R.**, Zieffler, A., Le, L., Isaak, R., & Ziegler, L. A. (March, 2011). *Different flavor of introductory statistics: Teaching students to really cook*. Invited presentation given to the Center for Statistical Information, Rikkyo University, Tokyo, Japan.
- 25) **delMas, R.**, Garfield, J. (March, 2011). *Assessing important learning outcomes for a first statistics course*. Invited presentation made at the Annual Meeting of the Japanese Statistics Society, Rikkyo University, Tokyo, Japan.
- 26) Garfield, J., **delMas, R.**, Zieffler, A. (March, 2011). *Developing students' statistical reasoning through active learning*. Invited presentation made at the Japanese Conference on Teaching Statistics, Rikkyo University, Tokyo, Japan.
- 27) Garfield, J., **delMas, R.**, Zieffler, A., Le, L., Isaak, R., & Ziegler, L. (January, 2011). *A different flavor of introductory statistics: Teaching students to really cook*. Invited poster presented at the AAAS and NSF sponsored CCLI-TUES Principal Investigators' conference, Transforming Undergraduate Education in STEM: Making and Measuring Impacts, Washington, DC.
- 28) **delMas, R.**, Garfield, Z., Zieffler, A., Park, J., etc. (January, 2011). *A Different Flavor of Introductory Statistics: Teaching Students to Really Cook*. Presented at the Joint Mathematics Meetings (JMM), New Orleans, LA.
- 29) Garfield, J., **delMas, R.**, Zieffler, Bjornsdottir, A., A., Rossman, A., Chance, B., Holcomb, J., & Cobb, G. (January, 2011). *CATALST: Change Agents for Teaching and Learning STatistics*. Invited poster presented at the Joint Mathematics Meetings (JMM), New Orleans, LA.
- 30) Peck, R., Klipple, K., Snell, M., Climent, J., Kimball, R., **delMas, R.** (November, 2010). *Statway: Integrating College Level Introductory Statistics and Developmental Mathematics*. Panel presentation at the Annual Meeting of the American Mathematics Association of Two-Year Colleges (AMATYC), Boston, MA.
- 31) Peck, R., Asera, R., Snell, M., Climent, J., Kimball, R., **delMas, R.** (August, 2010). *Statway: Integrating College Level Introductory Statistics and Developmental Mathematics*. Panel presentation at the Joint Statistical Meetings (JSM), Vancouver, BC, Canada.
- 32) **delMas, R.**, Garfield, J., & Zieffler, A. (May, 2010). *A Radical Approach to Teaching Statistics: The CATALST Project*. Invited talk presented at the 38th Meeting of the Statistical Society of Canada, Quebec City, Quebec, Canada.
- 33) Park, J., Bjornsdottir, A., Zieffler, A., Garfield, J. & **delMas, R.** (May, 2010). *Developing a Statistics Teaching and Beliefs Survey*. Roundtable presentation at the Annual conference of the American Educational Research Association (AERA), Denver, CO.

- 34) Garfield, J., **delMas, R.**, Zieffler, A., Bjornsdottir, A. & Park, J. (May, 2010). *Building a Statistics Course on Model-Eliciting Activities*. Poster presentation at the Annual conference of the American Educational Research Association (AERA), Denver, CO.
- 35) **delMas, R.** (January, 2010). *Excuse me; where is the department of statistics education?* presented at the Joint Mathematics Meetings (JMM), San Francisco, CA.
- 36) Garfield J, **delMas, R.**, Zieffler, A., Rossman, A., Chance, B., Cobb, G. & Holcomb, J. (January, 2010). *Change Agents for Teaching and Learning Statistics (CATALST)*. Poster presented at the Joint Mathematics Meetings (JMM), San Francisco, CA.
- 37) **delMas, R.**, Garfield, J., & Zieffler, A. (August, 2009). *The National Statistics Teachers' Practice and Beliefs Project*. Talk presented at the Joint Statistical Meetings (JSM), Washington, D.C.
- 38) Garfield, J., **delMas, R.** & Zieffler, A. (August, 2009) *Using Model-Eliciting Activities (MEAs) in the Statistics Classroom*. Roundtable presentation at the Joint Statistical Meetings (JSM), Washington, DC.
- 39) Kang, H., Bjorn, W. Lundeberg, M. & **delMas, R.** (August, 2009). *Giving women a voice and making science relevant: Using personal response systems ("clickers") with case studies in large lecture classrooms*. Paper presented at the Conference of the European Science Education Research Association (ESERA), Istanbul, Turkey.
- 40) Zieffler, A., Garfield, J., & **delMas, R.** (August, 2009). *Stirring the Pot – Being a Catalyst for Change*. Talk presented at the 2009 Joint Statistical Meetings (JSM), Washington, D.C.
- 41) **delMas, R.**, Garfield, J. & Zieffler, A. (July, 2009). *The Tyranny of Context*. Paper presented at the Sixth International Collaboration on Statistical Reasoning, Thinking, and Learning (SRTL), University of Queensland, Brisbane, Australia.
- 42) **delMas, R.** & Lovett, M. (June, 2009). *From Research to Learning Activities: Letting Go of the Old, Adding the New*. Talk presented at the 2009 United States Conference on Teaching Statistics (USCOTS), The Ohio State University, Columbus, OH.
- 43) Lundeberg, M., Wolter, B., Kang, H., **delMas, R.** & Herreid, C. (April, 2009). *Using Personal Response Systems ("Clickers") with Case Studies in Large Lecture Classes to Impact Student Assessment Performance: Which Cases Matter?* Paper presented at the annual conference of the American Educational Research Association (AERA), San Diego, CA.
- 44) **delMas, R.** (organizer) (2008, August). *Collaborative Projects in Statistics Education Research*. Panel discussion presented at the 2008 Joint Statistical Meetings (JSM), Denver, CO.
- 45) **delMas, R.** (2008, April). *Students' conceptual understanding of the standard deviation*. Paper presented at the Research Pre-session of the National Committee of Teachers of Mathematics, Salt Lake City, UT.
- 46) **delMas, R.**, Garfield, J., Zieffler, A. (2008, January). *Innovative, Research-Based Activities for a First Course in Statistics*. Paper presented at the Joint Mathematics Meetings (JMM), San Diego, CA.
- 47) **delMas, R.**, Garfield, J., Zieffler, A. (2008, January). *Adapting and Implementing Innovative Materials in Statistics Courses (AIMS)*. Poster presented at the Joint Mathematics Meetings (JMM), San Diego, CA.

- 48) Zieffler, A., Garfield, J., & **delMas, R.** (2007, July). *Studying the role of simulation in developing students' statistical reasoning*. Presentation at the 56th Session of the International Statistical Institute (ISI), Lisbon, Portugal.
- 49) Zieffler, A., Garfield, J., **delMas, R.**, & Gould, R. (2007, July). *Studying the development of college students' informal reasoning about statistical inference*. Presentation at the 5th Statistical Reasoning, Thinking and Literacy (SRTL) Research Forum, Coventry, England.
- 50) **delMas, R.** (2007, May). *Students' Understanding of Variability*. United States Conference on Teaching Statistics, Columbus, Ohio.
- 51) **delMas, R.**, Garfield, J., Ooms, A., & Chance, B. (2006, November). *Assessing Student's Conceptual Understanding after a First Course in Statistics: An Update*. Paper presented at the annual meetings of the American Mathematics Association of Two-Year Colleges (AMATYC), November 2, 2006, Cincinnati, OH.
- 52) **delMas, R.** (2006, July). *From formal to informal inference: Using simulation and guided inquiry*. Paper presented July 14, 2006, at the Conference on Teaching Introductory Statistics sponsored by the Medical College of Wisconsin, Milwaukee, WI.
- 53) **delMas, R.**, Garfield, J., Ooms, A., & Chance, B. (2006, April). *Assessing Student's Conceptual Understanding after a First Course in Statistics*. Paper presented at the Annual Meeting of the American Educational Research Association (AERA), April 9, San Francisco, CA.
- 54) **delMas, R.** (2005, November). *Activities to Promote an Understanding of Variability*. Presented at the Annual Meeting of the American Mathematics Association of Two-Year Colleges (AMATYC), San Diego, CA, November 11.
- 55) Ooms, A., Garfield, J., & **delMas, R.** (2005, August). *The Evaluation of the Web-based ARTIST, Assessment Resource Tools for Improving Statistical Thinking*. Poster presented at the 11th Biennial European Association for Research on Learning and Instruction (EARLI) Conference, Nicosia, Cyprus.
- 56) Garfield, J., & **delMas, R.** (2005, August). *The Impact of Japanese Lesson Study on Teachers of Statistics*. Invited presentation in Session 83, "Using Japanese Lesson Study to Develop Research Based Lessons in Statistics," sponsored by the Section on Statistical Education, Joint Statistical Meetings (JSM), Minneapolis, MN.
- 57) **delMas, R.**, Garfield, J., & Ooms, A. (2005, July). *Using Assessment Items to Study Students' Difficulty with Reading and Interpreting Graphical Representations of Distributions*. Presented at the Fourth Forum on Statistical Reasoning, Thinking, and Literacy (SRTL-4), July 6, 2005. Auckland, New Zealand.
- 58) **delMas, R.**, Chance, B., Garfield, J., & Ooms, A. (2005, May). *Using Assessment to Improve Instruction*. Interactive presentation at the first United States Conference on Teaching Statistics (USCOTS), May, 2005. The Ohio State University, Columbus, OH.
- 59) **delMas, R.**, & Lovett, M. (2005, May). *Research in Statistics Education: It's not a Solo Sport*. Panel member for a panel discussion presented at the first United States

- Conference on Teaching Statistics (USCOTS), May, 2005. The Ohio State University, Columbus, OH.
- 60) **delMas, R.** (2004, August). *The ARTIST Online Assessment Builder*. Presentation made at the ARTIST Roundtable Conference on Assessment in Statistics, August 1-4 at Lawrence University, Appleton, WI.
 - 61) **delMas, R.**, Garfield, J., & Chance, B. (2004, April). *Using assessment to study the development of students' reasoning about sampling distributions*. Paper presented at the Annual Meeting of the American Educational Research Association (AERA), April 13, San Diego, CA.
 - 62) **delMas, R.**, & Liu, Y. (2004, April). *Students' conceptual understanding of the standard deviation*. Paper presented at the Annual Meeting of the American Educational Research Association (AERA), April 12, San Diego, CA.
 - 63) **delMas, R.**, & Liu, Y. (2004, July). *Students' Understanding of Factors that Affect the Standard Deviation*. Paper presented at the 10th International Congress on Mathematical Education, July 9, Technical University of Denmark (DTU), Lyngby, Denmark.
 - 64) Garfield, J., **delMas, R.**, & Chance, B. (2004, July). *Exploring the impact of Lesson Study on Expert and Novice Statistics Teachers*. Paper presented at the 10th International Congress on Mathematical Education, July 9, Technical University of Denmark (DTU), Lyngby, Denmark.
 - 65) **delMas, R.**, Garfield, J., & Chance, B. (2003, August). *The Web-based ARTIST: An online resource for the assessment of instructional outcomes*. Invited Paper presented in Session 224, "Rethinking Assessment in Statistics Education: Realigning Goals and Updating Resources and Practices," sponsored by the Section on Statistical Education, Joint Statistical Meetings (JSM), San Francisco.
 - 66) Garfield, J., **delMas, R.**, & Chance, B. (2003, April). *The Web-based ARTIST: Assessment resource tools for improving statistical thinking*. Paper presented in the symposium titled *Assessment of Statistical Reasoning to Enhance Educational Quality*, at the Annual Meeting of the American Educational Research Association (AERA), April, Chicago.
 - 67) **delMas, R.** (2002, August). *Using technology to develop conceptual understanding*. Invited panel discussion, Our Toolbox is Overflowing: Towards a Framework for Mapping Technologies and Topics in Introductory Statistics, presented at the Joint Statistical Meetings (JSM), August 14, New York.
 - 68) **delMas, R.** (2002, April). *A review of the literature on learning and understanding probability*. Paper presented at the Annual Meeting of the American Educational Research Association (AERA), April 1-5, New Orleans.
 - 69) **delMas, R.**, Garfield, J., & Chance, B. (2002, January). *Assessment as a means of instruction*. Paper presented at the Joint Mathematics Meetings (JMM), San Diego, CA.
 - 70) **delMas, R.**, Brothen, T., Jensen, M., & Wambach, W. (2001, October). *Research on the use of technology to teach high-risk courses*. Poster session presented at the Third National Conference on Research in Developmental Education, October 24-27, Charlotte, NC.
 - 71) **delMas, R.**, Garfield, J., & Chance, B. (2001, July). *A framework for the development of students' statistical reasoning*. Research presentation given at the Second

International Conference on Statistical Reasoning, Thinking, and Learning (SRTL-2), Armidale, NSW, Australia.

- 72) Garfield, J., **delMas, R.**, & Chance, B. (2001, January). *Tools for teaching and assessing statistical inference*. Poster presentation given at the Annual Meeting of the Mathematics Association of America, January 13, New Orleans.
- 73) **delMas, R.** (2000, April). *Statistical literacy, reasoning, and thinking: What are they and why should we be concerned about them?* Discussant for an interactive symposium presented at the Annual Meeting of the American Educational Research Association (AERA), April 24, New Orleans.
- 74) **delMas, R.** (2000, November). *Teaching nontraditional courses to nontraditional students: The case of statistics*. Paper presented at the annual conference of the National Association for Developmental Education (NADE), Biloxi, MS. Presentation was an extension of a paper presented at the 1999 Annual Meeting of the Minnesota Association for Developmental Education, Brooklyn Park, MN.
- 75) **delMas, R.**, Garfield, J., & Chance, B. (1999, August). *Tools for improving statistical reasoning*. Paper presented at the Joint Statistical Meetings (JSM), Baltimore, MD.
- 76) **delMas, R.**, Garfield, J., & Chance, B. (1999, March). *Exploring the role of computer simulations in developing understanding of sampling distributions*. Paper presented at the Annual Meeting of the American Educational Research Association (AERA), Montreal.
- 77) Garfield, J., **delMas, R.**, & Chance, B. (1999, March). *The role of assessment in research on teaching and learning statistics*. Paper presented at the Annual Meeting of the American Educational Research Association (AERA), Montreal.
- 78) Garfield, J., **delMas, R.**, & Chance, B. (1999, July). *Developing Statistical Reasoning about Sampling Distributions*. Multimedia presentation given at the First International Conference on Statistical Reasoning, Thinking, and Learning (SRTL), Kibbutz Be'eri, Israel.
- 79) Garfield, J., **delMas, R.**, & Chance, B. (1999, January). *Using Technology to Improve Statistical Reasoning*. Paper presented at the Joint Mathematics Meetings (San Antonio, January 14, 1999). This was a web-based presentation of software and educational materials available at a website developed under an NSF grant (DUE-9752523).
- 80) **delMas, R. C.** (1998). *When No Relationship is a Good Relationship*. Paper presented at the national Annual Forum of the Association for Institutional Research (AIR), Minneapolis, MN.
- 81) Wambach, C. & **delMas, R. C.** (1998). *Evaluating Freshman Composition: A Multimethod Approach*. Paper presented at the national Annual Forum of the Association for Institutional Research (AIR), Minneapolis, MN.
- 82) **delMas, R. C.** & Kroll, P. (1996). *The Use of Non-Cognitive Variables in Admission Decisions for High At-Risk College Applicants*. Paper presented at the 1996 annual meeting of the Minnesota Association for Developmental Education (MNADE) in Rochester, MN.
- 83) Peterson, S. & **delMas, R.** (1996). *Effects of career-decision-making self-efficacy on the retention of underprepared adults: A path analytic study of student persistence*. Paper presented at the Annual meeting of the American Educational Research Association (New York, NY, April 11, 1996); ERIC document ED 392 990.

- 84) Wambach, C. & **delMas, R. C.** (1996a). *Should Developmental Education Survive at the University of Minnesota*. Paper presented at the national Annual Forum of the Association for Institutional Research (AIR), Albuquerque, NM.
- 85) Wambach, C. & **delMas, R. C.** (1996b). *Protecting Access for Less Qualified Students at a Major Research University*. Paper presented at the 1996 national Annual Forum of the Association for Institutional Research (AIR), Albuquerque, NM.
- 86) Garfield, J. & **delMas, R.** (1994). Students' informal and formal understanding of statistical power. Paper presented at the Fourth International Conference on Teaching Statistics (ICOTS4), Marrakech, Morocco, July 1994.
- 87) **delMas, R. C.** & Garfield, J. G. (1994). *Using the Power Simulator to help students learn the concept of statistical power*. Presented at the Annual Conference of the American Educational Research Association in New Orleans, LA.
- 88) Garfield, J., **delMas, R.**, & Facchino, C. (1993). *Live from the classroom: Cooperative learning in action*. Invited session at the Annual Meeting for Improving the Teaching of Statistics in Schools of Business, Minneapolis, MN.
- 89) Dunham, T., Garfield, J. & **delMas, R.** (1987). *Impact of the first quarter experience on retention of non-traditional college students*. Paper presented at the Annual Meeting of the American Educational Research Association.

WORKSHOPS, WEBINARS AND PROFESSIONAL TALKS

- 1) **delMas, R., Brown, E. & Zieffler, A.** (2015, April). *A comparison between a Randomization-based and Conventional Introductory Statistics Courses*. Invited talk Presented to the School of Social Science, University of Iceland, Reykjavik.
- 2) **delMas, R., Brown, E. & Zieffler, A.** (2015, March). *A comparison between a Randomization-based and Conventional Introductory Statistics Courses*. Invited talk presented to the Mid-Michigan Chapter of the American Statistical Association (ASA) and faculty and students of the Department of Mathematics, Central Michigan University, Mount Pleasant, MI.
- 3) **delMas, R.** (2015, March). *Trends in students' conceptual understanding of statistics*. Invited talk presented to the faculty and students of the Department of Mathematics, Central Michigan University, Mount Pleasant, MI.
- 4) **delMas, R.** (2014, August). *Preliminary Findings from Research on Teaching a Randomization-based Introductory Statistics Course*. Invited talk presented to the Department of Statistics, University of Georgia, Athens, GA.
- 5) **delMas, R.** (2014, March). *Active learning in the statistics classroom: A focus on the Adapting and Implementing Innovative Material in Statistics (AIMS) project*. Invited workshop presented to the faculty and students of the Department of Economics & Statistics, University of Costa Rica, San Jose.
- 6) **delMas, R.** (2014, March). *New content, new curriculum: A focus on the CATALST curriculum project*. Invited workshop presented to the faculty and students of the Department of Economics & Statistics, University of Costa Rica, San Jose.

- 7) **delMas, R.** (2014, March). *Assessing student outcomes - The ARTIST and eATLAS projects*. Invited workshop presented to the faculty and students of the Department of Economics & Statistics, University of Costa Rica, San Jose.
- 8) **delMas, R.** & Garfield, J. (2014, March). *The Science of Statistics Education - Our Study of Teaching and Learning Statistics*. Invited talk presented at the University of Costa Rica, San Jose.
- 9) **delMas, R.**, Le, L., Parker, N. & Ziegler, L. (May, 2013). *How to Implement a Randomization-based Introductory Statistics Course: The CATALST Curriculum*. Pre-conference workshop given at the United States Conference on Teaching Statistics, Raleigh-Durham, NC.
- 10) Garfield, J. & **delMas, R.** (2012, November). *What 25 Years of Collaborative Research in Statistics Education Tells Us*. Invited talk presented at the Mathematics and Statistics Education Day sponsored by the Teaching and Learning Collaborative at George Washington University.
- 11) **delMas, R.** (2012, March). *Two Different Flavors of Introductory Statistics*. Invited colloquium talk in the Department of Mathematical Sciences, Montana State University, Bozeman, MT.
- 12) **delMas, R.** (2012, March). *Publishing in the Statistics Education Research Journal*. Webinar sponsored by the Consortium for the Advancement of Undergraduate Statistics Education (CAUSE), The Ohio State University. www.causeweb.org/webinar/
- 13) **delMas, R.**, Garfield, J., Zieffler, A., Le, L., Isaak, R., & Ziegler, L. (2011, February). *A different flavor of introductory statistics: Teaching students to really cook*. Invited presentation given at Stat Chat, Macalester College, St. Paul, MN.
- 14) **delMas, R.**, Garfield, J., Zieffler, A., Le, L., Isaak, R., & Ziegler, L. (2011, February). *A different flavor of introductory statistics: Teaching students to really cook*. Invited presentation at the Department of Statistics, Brigham Young University, Salt Lake City, UT.
- 15) **delMas, R.**, Garfield, J., Zieffler, A., Le, L., Isaak, R., & Ziegler, L. (2011, February) *A different flavor of introductory statistics: Teaching students to really cook*. Invited presentation at the Fariborz Maseeh Department of Mathematics and Statistics, Portland State University, Portland, OR.
- 16) Garfield, J., **delMas, R.**, Zieffler, A., Rossman, A., Chance, B., Holcomb, J., & Cobb, G. (2011, January). *CATALST implementors workshop*. A workshop for CATALST implementors presented at The Joint Mathematics Meetings (JMM), New Orleans, LA.
- 17) **delMas, R.**, Garfield, J., Zieffler, A., Le, L., Isaak, R., & Ziegler, L. (2011, January). *A different flavor of introductory statistics: Teaching students to really cook*. Invited presentation at the Centre for Methodology of Educational Research, Katholieke Universiteit Leuven, Belgium.
- 18) Garfield, J., **delMas, R.**, & Zieffler, A. (2010, February). *Sample an AIMS Activity: What makes the standard deviation larger or smaller?* Webinar sponsored by the Consortium for the Advancement of Undergraduate Statistics Education (CAUSE), The Ohio State University. www.causeweb.org/webinar/
- 19) Garfield, J., **delMas, R.**, Zieffler, A., Rossman, A., Chance, B. & Holcomb, J. (January, 2010). *Become a Catalyst for Change in Statistics Education*. Workshop conducted at the Joint Mathematics Meetings (JMM), San Francisco, CA.

- 20) **delMas, R.**, Garfield, J. and Zieffler, A. (2009, November). Two-hour workshop, *Using Model Eliciting Activities to Teach Statistics*, presented at the annual meetings of the American Mathematics Association of Two-Year Colleges (AMATYC), November 3, 2006, Las Vegas, NV.
- 21) **delMas, R.** (August, 2009). *Teaching Statistical Concepts*. Workshop session presented at the 2009 Meeting Within a Meeting during the annual Joint Statistical Meetings (JSM), Washington, D.C.
- 22) Garfield, J., **delMas, R.**, Zieffler, A., Rossman, A., Chance, B. & Holcomb, J. (June, 2009). *Become a Catalyst for Change in Statistics Education*. Pre-conference workshop conducted prior to the 2009 United States Conference on Teaching Statistics (USCOTS) held at The Ohio State University, Columbus, Ohio.
- 23) Kaplan, D., **delMas, R.**, & Zieffler A. (2009). Starting with R. A workshop presented at Macalester College, St. Paul, MN, February 12, 26, and March 12.
- 24) **delMas, R.** (2009, February). *Emphasizing Conceptual Understanding in Statistics*. Webinar sponsored by the American Statistics Association (ASA) and the American Mathematical Association of Two-Year Colleges (AMATYC). http://www.amstat.org/education/amatyc_asa/archives.cfm
- 25) Zieffler, A. , **delMas, R.**, & Garfield, J. (2009, February). *Aiming to Improve Students' Statistical Reasoning: An Introduction to the AIMS Materials*. Webinar sponsored by the Consortium for the Advancement of Undergraduate Statistics Education (CAUSE), The Ohio State University. www.causeweb.org/webinar/2009-02/
- 26) **delMas, R.** (2008, October). The Best of Statistics AMATYC Traveling Workshop presented October 25, 2008 at Everett Community College, Everett, WA. This workshop was supported by the NSF-funded CAUSEway workshop grant.
- 27) **delMas, R.**, Parker, M., Miller, G., & Climent, J. (2008, June). AMATYC Statistics Summer Institute: "GAISEing Beyond the Crossroads: Improving Instruction in Introductory Statistics". A CAUSEway Workshop presented at Cape Cod Community College in West Barnstable, Massachusetts, June 16 - 20, 2008.
- 28) **delMas, R.**, & Lovett, M. (2008, June). *Setting the Stage for Students' Conceptual Change in Learning Statistics*. Webinar sponsored by the Consortium for the Advancement of Undergraduate Statistics Education (CAUSE), The Ohio State University. www.causeweb.org/webinar/2008-06/
- 29) **delMas, R.** (2007, February). One-day workshop, *Teaching Statistics with GAISE*, presented at Tidewater Community College, Norfolk, VA, February 24, 2007.
- 30) **delMas, R.** (2006, November). Two-hour workshop, *Implementing the GAISE Guidelines to Teach Introductory Statistics*, presented at the annual meetings of the American Mathematics Association of Two-Year Colleges (AMATYC), November 3, 2006, Cincinnati, OH.
- 31) **delMas, R.** (2006, July). Presentation, *Using assessment to improve and evaluate student learning in introductory statistics*, Consortium for the Advancement of Undergraduate Statistics Education (CAUSE) sponsored workshop, Medical College of Wisconsin, Milwaukee, WI, July 12, 2006.

- 32) **delMas, R.**, & Ooms, A. (2006, March). *Using the ARTIST Website to Develop Assessments for Introductory Statistics*. Webinar sponsored by the Consortium for the Advancement of Undergraduate Statistics Education (CAUSE), The Ohio State University. www.causeweb.org/webinar/2006-03/
- 33) Chance, B., **delMas, R.**, Rossman, A., & Holcomb, J. (2006, January). *Designing and Evaluating Assessments for Introductory Statistics*. Mini-course presented at the Joint Mathematics Meetings (JMM), January 12-14, 2006. San Antonio, TX.
- 34) Smith, B., **delMas, R.**, & Utts, J. (2005, November). *Preparation of Two-Year College Mathematics Instructors to Teach Statistics with GAISE*. Two-day workshop presented at the annual meeting of AMATYC in San Diego, CA, November 8-9.
- 35) Chance, B., & **delMas, R.** (2005, November). *Designing and Evaluating Assessments for Introductory Statistics*. Workshop presented at the annual meeting of AMATYC in San Diego, CA, November 8-9.
- 36) Chance, B., **delMas, R.**, & Rossman, A. (2005, August). *Designing and Evaluating Assessments for Introductory Statistics*. Workshop presented at the Joint Statistical Meetings (JSM), August 6, 2005. Minneapolis, MN.
- 37) Chance, B., **delMas, R.**, & Rossman, A. (2004, January). *Designing and Evaluating Assessments for Introductory Statistics*. Mini-course presented at the Joint Mathematics Meetings (JMM), January 7-9, 2004. Phoenix, AZ.

TECHNICAL REPORTS

- 1) **delMas, R.** (1995a). *Comparison of At-Risk Students Who Entered the University of Minnesota Through the General College and the University of Minnesota - Duluth*. Special Report of the General College Office of Research and Evaluation.
- 2) **delMas, R.** (1995b). *Preliminary Report on the Validity of the General College Mathematics Course Placement System*. Special Report of the General College Office of Research and Evaluation.
- 3) **delMas, R.** (1994). *Retention, Transfer, and Graduation: Comparative Studies*. Special Report of the General College Office of Research and Evaluation.
- 4) **delMas, R.** (1993). *Relationship between General College Cumulative GPA and Cumulative GPA after Transfer*. Special Report of the General College Office of Research and Evaluation.

PROFESSIONAL AFFILIATIONS

American Educational Research Association (AERA)

American Statistical Association (ASA)

International Association of Statistical Education (IASE)

Mathematical Association of America (MAA)

PROFESSIONAL SERVICE

CURRENT

- 2014-Present University Faculty Senate
- 2008-Present Director of the Educational Psychology Applied Psychology in Educational and Community Settings (APECS) minor.
- 2002-Present Research adviser, Consortium for the Advancement of Undergraduate Statistics Education (CAUSE) headquartered at Ohio State University under the direction of Dennis Pearl, Professor of Statistics.
- 2000-Present Faculty Advisor and instructor, Shotokan Japanese Karate Club, University of Minnesota.

PAST

- 2009-2014 Editor, *Statistics Education Research Journal* (SERJ).
- 2012-2014 Co-Organizer with Peter Petocz (Australia) of Topic Session 8H, Publishing in Education Research Journals, for the 9th International Conference on Statistics Education (ICOTS-9) held in Flagstaff, AZ, Unites States.
- 2009-2012 Editorial Review Board of the *Journal for Research in Mathematics Education* (JRME).
- 2009-2011 Consultant for the Carnegie Foundation for the Advancement of Teaching Statistics Pathway project headed by Uri Triesman (Carnegie Foundation and University of Texas, Austin).
- 2008-2010 Co-Organizer with Joan Garfield (University of Minnesota) of Topic Session 5F, Assessing Statistical Reasoning and Statistical Thinking, for the 8th International Conference on Statistics Education (ICOTS-8) held in Ljubljana, Slovenia.
- 2010 ASA Section on Statistics Education. Past Chair.
- 2001-2010 Associate Editor, the *Journal of Statistics Education* (JSE).
- 2009 ASA Section on Statistics Education. Chair.
- 2008-2009 Member of the College of Education and Human Development (CEHD) Undergraduate Planning Workgroup.
- 2006-2009 ASA American Statistical Association Advisory Committee on Teacher Enhancement. Member Ex-Officio.
- 2002-2009 Paper referee, *Statistics Education Research Journal* (SERJ).
- 2008 ASA Section on Statistics Education. Chair-Elect.
- 2004-2008 Statistical consultant for *The Learning Assistance Review*.
- 2001-2008 ASA Committee on Statistics in Two-Year Colleges. Chair 2006-2008.

- 2007 Member of review panel for the 2008 Eva O. Miller Fellowship applications.
- 2006-2007 Member, College of Education and Human Development (CEHD) Committee on Information Technology.
- 2006-2007 Member, Department of Educational Psychology Undergraduate Degree Committee.
- 2003-2006 Session organizer, “Research in Statistics Education”, 7th International Conference on Teaching Statistics (ICOTS-7), Salvador de Bahia, Brazil, July, 2006.
- 1999-2004 Paper referee, *Journal of Educational Psychology* (JEP).
- 2001-2003 Mathlet referee for *Journal of Online Mathematics and its Applications* (JOMA).
- 1993-2003 Member, Admissions and Advancement Committee, the General College. Committee vice chair, fall 1993-spring 1995.
- 2001-2002 Session organizer, “Other Determinants and Developments in Statistics Education”, 6th International Conference on Teaching Statistics (ICOTS-6), Durban, South Africa, July, 2002.
- 1999-2002 General College Senate representative, University of Minnesota Faculty Senate.
- 2001-2002 Session organizer, Innovative Outcome Assessment in Statistics Education, Joint Mathematics Meetings (JMM), San Diego, CA, January 2002.
- 2001 Session moderator, Third National Conference on Research in Developmental Education, Charlotte, NC, October, 2001.
- 2001 Paper referee, Sixth International Conference on Teaching Statistics (ICOTS-6) Durban, South Africa, July, 2002.
- 2001 Co-chair, Second Forum on Statistical Reasoning, Thinking, and Literacy (SRTL-2) held in Armidale Australia, August, 2001, sponsored by the International Association of Statistics Education (IASE).
- 2001 Video interviewee, “A Professor Discusses Accommodations”, Access To Work project of University of Minnesota Department of Disability Services.
- 2001 Review committee member, David L. Giese Award for Outstanding Service for Graduate Students, General College.
- 1997-2001 Columnist, Teaching Bits, *Journal of Statistics Education* (JSE).
- 1999-2000 Paper referee, *Journal of Statistics Education* (JSE).
- 1999 Paper referee, *The American Statistician* (TAS).
- 1998 Member, University College Distinguished Teaching Award Review Committee
- 1998 Member, University of Minnesota Project 2000 Advising Team: tested the implementation of a new student records system to ensure that it met the

needs of professional advisers.

1997-1998 Session Organizer, “Other Determinants and Developments in Statistics Education”, 5th International Conference on Teaching Statistics (ICOTS-5), Nanyang Technological University, Singapore.

1996 Member, NSF Review Panel: reviewed applications for the National Science Foundation Instrumentation and Laboratory Improvement grants program, Washington, D.C.