Jacqueline Dewar

Professor Emerita, Mathematics
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EDUCATION

Ph.D. in Mathematics
University of Southern California
Dissertation title: Coincidence Theorems for Set-Valued Mappings

M.A. in Mathematics
University of Southern California

B.S. in Mathematics, minors in Physics and Philosophy, summa cum laude
Saint Louis University

EMPLOYMENT

Loyola Marymount University, Los Angeles, CA

Professor of Mathematics	1985-2013
Associate Professor of Mathematics	1980-1985
Assistant Professor of Mathematics	1973-1980

ADMINISTRATIVE EXPERIENCE

Loyola Marymount University, Los Angeles, CA

Interim Director, Office of Faculty Development	2010-2011
Director, Center for Teaching Excellence	2006-2010
Institutional Lead, Carnegie Affiliates Institutional Leadership Program	2006-2009
Chairperson, Department of Mathematics	2005-2006, 1983-1986
Director, Master of Arts in Teaching Mathematics Program	1997-2005
Coordinator, Mathematics Concentration, Liberal Studies Program	1995-2007
Coordinator, Single Subject Matter Program in Mathematics	1994-2007
Director, Graduate Mathematics Program	1979-1981

SELECTED PUBLICATIONS (since 1990)

Dewar, J. (2023). Path to success: Enabled by guardians, connectors, and taking adventurous steps. In R. Garcia, P. Harris, D. Lewis, & S. Walker (Eds.), *Aspiring and Inspiring: Tenure and Leadership in Academic Mathematics* (pp. 1–9). Providence, RI: American Mathematical Society.

Dewar, J. & Greenwald S. (2023). Mathematical Treasure: Kircher's Arithmologia, *Convergence: Where Mathematics, History, and Teaching Meet.* (online) Available at https://old.maa.org/press/periodicals/convergence/mathematical-treasure-kircher-s-arithmologia

Dewar, J., Larson, S., & Zachariah, T. (2019). Reflections on sustaining QL course innovations: A cautionary tale. In L. Tunstall, G. Karaali, & V. Piercey (Eds.), *Shifting Contexts, Stable Core: Advancing Quantitative Literacy in Higher Education* (pp. 139-148). Washington, DC: Mathematical Association of America.

Dewar, J., Bennett, C., & Fisher, M. (2018). *The scholarship of teaching and learning: A guide for scientists, engineers, and mathematicians*. Oxford, UK: Oxford University Press.

Dewar, J. (2017). Celebrating the contributions of three women to mathematics teaching and learning. In J. Beery, S. Greenwald, J. Jensen-Vallin, & M. Mast (Eds.), *Women in mathematics: Celebrating 100 years of the Mathematical Association of America* (pp. 141-156). New York, NY: Springer.

Dewar, J. (2017). Women and mathematics: A course and a scholarly investigation. *BSHM Bulletin: Journal of the British Society for the History of Mathematics.* DOI: 10.1080/17498430.2017.1319160.

Dewar, J. & Greenwald, S. (2017). Teaching students about women and mathematics: An interview with two course designers. In J. Beery, S. Greenwald, J. Jensen-Vallin, & M. Mast (Eds.), *Women in mathematics: Celebrating 100 years of the Mathematical Association of America* (pp. 343-358). New York, NY: Springer.

Dewar, J., Hsu, P.-s., & Pollatsek, H. (Eds.). (2016). *Mathematics education: A spectrum of work in mathematical sciences departments*. New York, NY: Springer.

Zill, D. & **Dewar, J**. (2016). *Essentials of precalculus with calculus previews*, 6th ed. Sudbury, MA: Jones and Bartlett Publishers.

Dewar, J. & Bennett, C. (Eds.). (2015). *Doing the scholarship of teaching and learning in mathematics*. Washington DC: Mathematical Association of America.

Bennett, C. & **Dewar, J.** (2013). SoTL and interdisciplinary encounters in the study of students' understanding of mathematical proof. In K. McKinney (Ed.), *The scholarship of teaching and learning in and across the disciplines* (pp. 54-73). Bloomington, IN: Indiana University Press.

Thadani, V., Breland, W., & **Dewar, J.** (2015). Implicit theories about teaching skills predict university faculty members' interest in professional learning. *Learning and Individual Differences, 40*, 163-169.

Bennett, C. & **Dewar, J.** (2012). An overview of the scholarship of teaching and learning in mathematics. *PRIMUS (Problems, Resources, and Issues in Mathematics Undergraduate Studies), 22*(6), 458-473.

Dewar, J., Larson, S., & Zachariah, T. (2011). Group projects and civic engagement in a quantitative literacy course. *PRIMUS (Problems, Resources, and Issues in Mathematics Undergraduate Studies), 21*(7), 606-637.

Dewar, J. (2011). Helping stakeholders understand the limitations of SRT data: Are we doing enough? *Journal of Faculty Development, 25*(3), 40-44.

Dewar, J., Dailey-Hebert, A., & Moore, T. (2010, July). The attraction, value and future of SoTL: Carnegie Affiliates perspectives. *Transformative Dialogues: Teaching and Learning eJournal, 4*(1).

Thadani, V., Breland, W., & **Dewar, J.** (2010). College instructors' implicit theories about teaching skills and their relationship to professional development choices. *Journal on Excellence in College Teaching, 21*(2), 113-131.

Dewar, J. & Bennett, C. (2010). Situating SoTL within the disciplines: Mathematics in the United States as a case study. *International Journal of the Scholarship of Teaching and Learning. 4*(1).

Bennett, C. & **Dewar, J.** (2007). Developing and applying a taxonomy for mathematical knowledge-expertise. *Electronic Proceedings for the 10th Annual Conference on Research in Undergraduate Mathematics Education Conference,* San Diego, CA.

Dewar, J. (2006). Increasing math majors' success and confidence through problem solving and writing. In F. Rosamond & L. Copes (Eds.), *Educational transformations: The influences of Stephen I. Brown* (pp. 101-121). Bloomington, IN: AuthorHouse.

Fathe, L., Kasabian, J., & **Dewar, J.** (2002). A future teachers conference - A vehicle to retain, inform, and inspire new and prospective teachers. *Journal of Mathematics and Science: Collaborative Explorations, 5*(2), 181-188.

Dewar, J. (1994). Addressing gender equity in mathematics for preservice elementary teachers. *Undergraduate Mathematics Education Trends, 6*(3), 2.

Dewar, J. (1991). Using the computer language LOGO to provide college students with a mathematical experience. *Collegiate Microcomputer, IX*(1), 59-61.

Cooney, M., **Dewar, J.,** Kenschaft, P., Kraines, V., Latka, B., & LiSanti, B. (1990). Recruitment and retention of students in undergraduate mathematics. *The College Mathematics Journal, 21*(4), 294-301.

SELECTED CONFERENCE PRESENTATIONS AND WORKSHOPS (since 2015)

Encouraging women in mathematics through an interdisciplinary course, paper presented in the MAA Contributed Paper Session on Promoting Women in Mathematics at the (virtual) *Joint Mathematics Meetings*, January 6, 2021.

Writing and Publishing, workshop co-presenter (with Kristen Lew and Annie Selden) at *Mentoring & Partnerships for Women in RUME* (*Research in Undergraduate Mathematics Education*), San Diego, CA, February 21, 2018.

Exploring teaching and learning in the first two years of college mathematics, keynote address, *SoTL Symposium, AMATYC Conference*, San Diego, CA, November 10, 2017.

Getting started in the scholarship of teaching and learning, workshop leader, *Breaking the Boundaries in STEM Education Conference*, Loyola Marymount University, Los Angeles, CA, April 7, 2017.

Patterns + Women = Figures for Math, workshop co-leader (with E. V. Cardenas), *Expanding Your Horizons in Mathematics, Science and Engineering Career Day*, Mount St. Mary's University, Los Angeles, CA, March 11, 2017.

Women and mathematics: A course and a scholarly investigation, paper presented, *Mathematical Biography: A MacTutor Celebration Conference*, St. Andrews University, Scotland, September 17, 2016.

Evidence matters: Using the scholarship of teaching and learning to tell the story of curriculum development, webinar (co-presented with R. Wagstrom and M. Siniawski) sponsored by the National Center for Science and Civic Engagement, May 5, 2016.

Our classrooms as ecological systems, invited panelist, *Developing the MAA Pedagogy Guide Panel, Joint Mathematics Meetings*, Seattle, WA, January 6, 2016.

Teaching for transfer: Investigating tough questions at the intersection of disciplines and practice, co-keynote address (with C. Bennett), *2015 Symposium on Scholarship of Teaching and Learning*, Institute for Scholarship of Teaching and Learning at Mount Royal University, Banff, Canada, November 13, 2015.

Evidence matters: Designing your SoTL study, invited workshop leader, *2015 Symposium on Scholarship of Teaching and Learning,* Institute for Scholarship of Teaching and Learning at Mount Royal University, Banff, Canada, November 11, 2015.

Some thoughts on individual success, invited panelist, *MPWR II: Mentoring and Partnerships for Women in RUME (Research in Undergraduate Mathematics Education)*, Pittsburgh, PA, February 17, 2015.

Doing and teaching with the Mathematical Practices of the Common Core, a 5-session workshop series, *Loyola Marymount University Math Leadership Network*, Spring 2015.

GRANTS

Project SLOPE (Scholarly Leaders Originating as Practicing Educators) in Two Year Colleges, Senior Personnel, American Mathematical Association of Two-Year Colleges (NSF IUSE:EHR 17-26891), $305,000 2017- 2020

MAA-TENSOR Women and Mathematics Program, PI, Women and Mathematics for Future Teachers (www.jdewar.lmu.build/wam), $18,000 2007- 2012

SENCER (Science Education for New Civic Engagements and Responsibilities www.sencer.net), PI, Quantitative Literacy course, $3500 2004

NSF Collaborative for Excellence in Teacher Preparation Program, Campus Coordinator, Loyola Marymount University, Los Angeles Collaborative for Teacher Excellence (NSF DUE 94-53608), $5,500,000 1995 - 2001

HONORS AND AWARDS

Loyola Marymount University Faculty Hall of Fame 2021
Louise Hay Award for Contribution to Mathematics Education 2019
Fellow, Association for Women in Mathematics 2019
Association for Women in Mathematics Service Award 2018
SENCER Leadership Fellow (www.sencer.net) 2008
MAA Deborah and Franklin Tepper Haimo Award for University Teaching 2006
Loyola Marymount President's Fritz B. Burns Distinguished Teaching Award 2005
Carnegie Scholar, Carnegie Academy for the Scholarship of Teaching and Learning 2003
Loyola Marymount University Women's Herstory Faculty Award 2002

PROFESSIONAL SERVICE

Conference Board of the Mathematical Sciences (CBMS)
- Member, Writing Team, CBMS Statement on Active Learning 2016

Association for Women in Mathematics (AWM)
- Co-chair, Education Committee 2015- 2018
- Editor, Education column, AWM Newsletter 2012-present
- Member, AWM Newsletter Team 2009-present
- Member, Education Committee 2004- 2012, 2014- 2018

Mathematical Association of America
- Member, Writing Team, Instructional Practices Guide 2016- 2017
- Governor for Teacher Education 2012- 2015
- Member, Committee on the Mathematical Education of Teachers 2012- 2015
- Member, Nominating Committee for the Mary P. Dolciani Award 2012- 2013
- Member, Committee on Travel Study Programs 2011- 2013
- Co-organizer, Contributed Paper Sessions on Scholarship of Teaching and Learning in Collegiate Mathematics 2007- 2020

Math/Science Interchange (a 501c(3) nonprofit organization)
- Co-founder (1978), Director, & Math-Science Career Day Organizer 1978- 2003