

Laura M. O'Dwyer, Ph.D.

Associate Professor

Department of Educational Research, Measurement and Evaluation

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EDUCATION

- 2000 Ph.D., Educational Research, Measurement and Evaluation, Boston College
- 1993 M.Sc., Applied Geophysics, National University of Ireland, Galway
- 1992 B.Sc., (Hons.) Double major: Applied Physics and Electronics, National University of Ireland, Galway

ACADEMIC APPOINTMENTS

- 7/10 - Present **Associate Professor**, Department of Educational Research, Measurement and Evaluation, Lynch School of Education, Boston College.
- Spring 2016 **Acting Department Chair**, Department of Educational Research, Measurement and Evaluation, Lynch School of Education, Boston College.
- 6/14, 6/15, and 6/16 **Visiting Scholar**, National University of Ireland at Galway, Department of Education.
- 1/13 – 4/13 **Visiting Scholar**, National University of Ireland at Galway, Department of Mathematics and Department of Education.
- 6/06 – 6/10 **Assistant Professor**, Department of Educational Research, Measurement and Evaluation, Lynch School of Education, Boston College.
- 9/04 – 5/06 **Assistant Professor**, University of Massachusetts Lowell, Graduate School of Education.
- 5/02 – 9/04 **Part-time Instructor**, Department of Educational Research, Measurement and Evaluation, Lynch School of Education, Boston College.
- 5/02 – 9/04 **Part-time Instructor**, University of Massachusetts Lowell - Graduate School of Education.

RESEARCH APPOINTMENTS

- 6/06 – Present **Senior Research Associate**, Boston College – Lynch School of Education. Center for the Study of Testing, Evaluation, and Educational Policy (CSTEPEP).
- 2016 - Present **International Research Associate** (non-resident). Centre for Assessment Research, Policy and Practice in Education (CARPE). Dublin City University, Ireland.

- 9/04 – 5/06 **Senior Researcher and Evaluator**, K-12 Outreach Center, Graduate School of Education, University of Massachusetts, Lowell.
- 9/02 – 8/04 **Assistant Research Professor**, Boston College – Lynch School of Education. Center for the Study of Testing, Evaluation, and Educational Policy (CSTEED).
- 6/01-8/02 **Senior Research Associate**, Boston College – Lynch School of Education. Center for the Study of Testing, Evaluation, and Educational Policy (CSTEED).
- 9/97-5/01 **Graduate Assistant**, Boston College – Lynch School of Education. Center for the Study of Testing, Evaluation, and Educational Policy (CSTEED).

BOOKS

- O'Dwyer, L.M.**, & Bernauer, J.A. (2014). *Quantitative research for the qualitative researcher*. Thousand Oaks, CA: Sage.

PEER-REVIEWED PUBLICATIONS

* Indicates a student co-author † Indicates a publication funded through a grant

Peer-reviewed Journal Articles

- Shields,* K.A., & O'Dwyer, L.M. (in press). Remedial education and completing college: Exploring differences by credential and institutional level. *The Journal of Higher Education*.
- O'Dwyer, L.M., Wang,* Y., & Shields,* K.A. (2015). Teaching for conceptual understanding: A cross-national comparison of the relationship between teachers' instructional practices and student achievement in mathematics. *Large Scale Assessment*, 3(1). DOI 10.1186/s40536-014-0011-6.
- Dulaney,* A., Vasilyeva, M., & O'Dwyer, L.M. (2015). Individual differences in cognitive resources and elementary school mathematics achievement: Examining the roles of storage and attention. *Learning and Individual Differences*, 37, 55-63.
- Burdo, J., & O'Dwyer, L.M. (2015). The effectiveness of concept mapping and retrieval practice as learning strategies in an undergraduate physiology course. *Advances in Physiology Education*, 39(4), 335-340. doi: 10.1152/advan.00041.2015.
- Peoples,* S.M., & O'Dwyer, L.M. (2014). The Nature of Science Instrument-Elementary (NOSI-E): The end of the road? *Journal of Applied Measurement*, 15(4), 338-358. †
- Peoples,* S. M., O'Dwyer, L.M., Wang,* Y., Brown,* J. & Rosca, C. (2014). Development and application of the Elementary School Science Classroom Environment Scale (ESSCES): Measuring student perceptions of constructivism within the science classroom, *Learning Environments Research Journal*, 17(1), 49-73. †
- Peoples,* S.M., O'Dwyer, L.M., Shields,* K., & Wang,* Y., (2013). With hiccups and bumps: The development of a Rasch-based instrument to measure elementary students' understanding of the nature of science. *Journal of Applied Measurement*, 14(1), 57-78. †

- Horwitz, P., McIntyre, C.A., Lord, T.L., O'Dwyer, L.M., & Staudt, C. (2013). Teaching 'Evolution readiness' to fourth graders. *Evolution: Education and Outreach*, 6(21). doi:10.1186/1936-6434-6-21. †
- Poteat, V. P., O'Dwyer, L. M., & Mereish,* E. H. (2012). Changes in how students use and are called homophobic epithets over time: Patterns predicted by gender, bullying, and victimization status. *Journal of Educational Psychology*, 104, 393-406.
- Dash, S., Magidin de Kramer,* R., O'Dwyer, L. M., Masters, J., & Russell, M. (2012). Impact of online professional development on teacher quality and student achievement in fifth grade mathematics. *Journal of Research on Technology in Education*, 45(1), 1-26. †
- Masters, J., Magidin de Kramer,* R., O'Dwyer, L.M., Dash, S., & Russell, M. (2012). The effects of online teacher professional development on fourth grade students' knowledge and practices in English Language Arts. *The Journal of Technology and Teacher Education*, 20(1), 21-46. †
- Magidin de Kramer,* R., Masters, J., O'Dwyer, L. M., Dash, S. & Russell, M., (2012). The Effects of Online Teacher Professional Development on Seventh Grade Teachers' and Students' Knowledge and Practices in English Language Arts. *Teacher Educator*, 47(3), 236-259. †
- Wang,* Y. & O'Dwyer, L.M. (2011). Teacher-directed student-use of technology and mathematics achievement: Examining trends in international patterns. *Journal of Computers in Mathematics and Science Teaching*, 30(1), 79-135.
- Gobert, J., O'Dwyer, L. M., Horwitz, P., Buckley, B. Levy, S., Wilensky, W. (2011). Examining the relationship between students' understanding of the nature of models and conceptual learning in biology, physics, and chemistry. *International Journal of Science Education*, 33(5), 653-684. †
- Bebell, D. & O'Dwyer, L. M. (2010). Educational Outcomes and Research from 1:1 Computing Settings. *Journal of Technology, Learning, and Assessment*, 9(1). †
- Masters, J., Magidin de Kramer,* R., O'Dwyer, L. M., Dash, S. & Russell, M., (2010). The effects of online professional development on fourth grade English language arts teachers' knowledge and instructional practices. *Journal of Educational Computing Research*, 43(3), 355-375. †
- Bebell, D., O'Dwyer, L.M., Russell, M., & Hoffman, T. (2010). Concerns, considerations and new ideas for data collection and research in educational technology studies. *Journal of Research on Technology in Education*, 43(1), 29-52. †
- Buckley, B.C., Gobert, J., Horwitz, P., & O'Dwyer, L.M. (2010). Looking inside the black box: Assessment and decision-making in BioLogica. *International Journal of Learning Technology*, 5(2), 166-190. †
- Russell, M., O'Dwyer, L.M., & Miranda, H. (2009). Diagnosing students' misconceptions in algebra: Results from an experimental pilot study. *Behavior Research Methods*, 41(2), 414-424. †

- Hall-Reynolds,* C.A. & O'Dwyer, L.M. (2008). Examining the relationships among emotional intelligence, coping mechanisms for stress and leadership effectiveness for middle school principals. *Journal of School Leadership, 18*(5), 472-500.
- O'Dwyer, L.M., Russell, M., Bebell, D., & Tucker-Seeley,* K. (2008). Examining the relationship between students' mathematics test scores and computer use at home and at school. *Journal of Technology, Learning and Assessment, 6*(5). †
- O'Dwyer, L.M., Carey, R., & Kleiman, G. (2007). A study of the effectiveness of the Louisiana Algebra I Online course. *Journal of Research on Technology in Education, 39*(3), 289-306. †
- O'Dwyer, L.M., Carey, R., & Kleiman, G. (2007). The Louisiana Algebra I online initiative as a model for teacher professional development: Examining teacher experiences. *Journal of Asynchronous Learning Networks, 11*(3), 69-93. †
- Russell, M., O'Dwyer, L. M., Bebell, D., & Tao,* W. (2007). How teachers' uses of technology vary by tenure and longevity. *Journal of Educational Computing Research, 37*(4), 393-417. †
- O'Dwyer, L.M., Russell, M., & Bebell, D. (2005). Identifying teacher, school and district characteristics associated with middle and high school teachers' use of technology: A multilevel perspective. *Journal of Educational Computing Research, 33*(4), 369-393. †
- O'Dwyer, L.M. (2005). Examining the variability of mathematics performance and its correlates using data from TIMSS '95 and TIMSS '99. *Educational Research and Evaluation, 11*(2), 155-177. †
- O'Dwyer, L. M., Russell, M., Bebell, D., & Tucker-Seeley,* K. R. (2005). Examining the relationship between home and school computer use and students' English/language arts test scores. *Journal of Technology, Learning, and Assessment, 3*(3). †
- O'Dwyer, L. M., Russell, M., & Bebell, D. J. (2004). Identifying teacher, school and district characteristics associated with elementary teachers' use of technology: A multilevel perspective. *Education Policy Analysis Archives, 12*(48). †
- Bebell, D., Russell, M., & O'Dwyer, L.M. (2004). Measuring teachers' technology uses: Why multiple-measures are more revealing. *Journal of Research on Technology in Education, 37*(1), 45-63. †
- Russell, M., Bebell, D., O'Dwyer, L.M., & O'Connor, K.M. (2003). Examining teacher technology use: Implications for pre-service and in-service teacher preparation. *Journal of Teacher Education, 54*(4), 297-310. †
- Madaus, G.F., & O'Dwyer, L.M. (1999). A short history of performance assessment: Lessons learned. *Phi Delta Kappan, 80*(9), 688 – 695.

Peer-reviewed Federally-commissioned Reports

- O'Dwyer, L.M., & Parker, C.E. (2014). *Analyzing nested data using multilevel modeling in SPSS* (REL 2014–046). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance, Regional Educational Laboratory Central. Retrieved from <http://ies.ed.gov/pubsearch/pubsinfo.asp?pubid=REL2015046>. †
- Parker, C.E., O'Dwyer, L.M., & Irwin, C. W. (2014). *The correlates of academic performance for English language learner students in a New England district* (REL 2014–020), Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance, Regional Educational Laboratory Northeast & Islands. Retrieved from <http://ies.ed.gov/pubsearch/pubsinfo.asp?pubid=REL2014020>. †
- Grady, M. W., & O'Dwyer, L.M. (2014). *The English language learner program survey for principals* (REL 2014–027). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance, Regional Educational Laboratory Northeast & Islands. Retrieved from <http://ies.ed.gov/ncee/edlabs>. †
- Hoyle, C., O'Dwyer, L.M., & Chang, Q. (2011). *How student and school characteristics are associated with performance on the Maine high school assessment*. (Issues & Answers Report, REL 2011–No. 102). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance, Regional Educational Laboratory Northeast and Islands. Retrieved from <http://ies.ed.gov/ncee/edlabs>. †
- Sánchez, M. T., Ehrlich, S., Midouhas, E., and O'Dwyer, L. (2009). *Analyzing performance by grade 10 Hispanic high school students on the Massachusetts state assessment* (Issues & Answers Report, REL 2009–No. 071). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance, Regional Educational Laboratory Northeast and Islands. Retrieved from <http://ies.ed.gov/ncee/edlabs>. †
- Parker, C. E., Louie, J., & O'Dwyer, L.M. (2009). *New measures of English language proficiency and their relationship to performance on large-scale content assessments* (Issues & Answers Report, REL 2009–No. 066). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance, Regional Educational Laboratory Northeast and Islands. Retrieved from <http://ies.ed.gov/ncee/edlabs>. †

Peer-reviewed Book Chapters

- Newton,* A.D., & O'Dwyer, L.M. (in press). Propensity score analysis for examining the effects of a district-level intervention: A model for school-university partnerships. In R.M. Reardon & J. Leonard (Eds.), *Exploring the Community Impact of Research-Practice Partnerships in Education*. Charlotte, NC: Information Age Publishing Inc.
- O'Dwyer, L.M. (in press). Experimental designs. In Frey B.B. (Ed.), *Encyclopedia of educational research, measurement and evaluation*. Thousand Oaks, CA: Sage.
- Horwitz, P., Gobert, J., Buckley, B.C., & O'Dwyer, L.M. (2010). Learning genetics with dragons: From computer-based manipulatives to hypermodels. In Jacobson, M. J., & Reimann, P. (Eds.) (pp. 61-87), *Designs for learning environments of the future: International perspectives from the learning sciences*. New York: Springer Publishing Company. †
- Russell M., Bebell, D., & O'Dwyer, L.M. (2005). Tracking the arc of new teachers' technology use. In C. Vrasidas & G.V Glass (Eds.), *Current Perspectives on Applied Information Technologies: Preparing Teachers to Teach With Technology* (pp. 45-63). Greenwich, CT: Information Age Publishing, Inc. †
- O'Dwyer, L.M. (2002). Extending the application of multilevel modeling to data from the Third International Mathematics and Science Study. In D.F. Robitaille & A.E. Beaton (Eds.), *Secondary Analysis of the TIMSS Results: A Synthesis of Current Research* (pp. 359-373). Dordrecht, Netherlands: Kluwer Academic Publishers. †
- Beaton, A.E., & O'Dwyer, L.M. (2002). Separating school, classroom and student variances and their relationship to socio-economic status. In D.F. Robitaille & A.E. Beaton (Eds.), *Secondary Analysis of the TIMSS Results: A Synthesis of Current Research* (pp. 211-231). Dordrecht, Netherlands: Kluwer Academic Publishers. †

MONOGRAPHS AND TECHNICAL PUBLICATIONS

* Indicates a student co-author † Indicates a publication funded through a grant

- Martin, M.O, Foy, P., Mullis, I.V.S., & O'Dwyer, L.M. (2013). *Effective Schools in Reading, Mathematics, and Science at Fourth Grade*. In Martin and Mullis (Eds) Relationships Among Reading, Mathematics, and Science Achievement at the Fourth Grade—Implications for Early Learning. TIMSS & PIRLS International Study Center, Lynch School of Education, Boston College and International Association for the Evaluation of Educational Achievement (IEA). †
- Foy, P., & O'Dwyer, L.M. (2013). *School Effectiveness Models and Analyses: Technical Appendix B*. In Martin and Mullis (Eds) Relationships Among Reading, Mathematics, and Science Achievement at the Fourth Grade—Implications for Early Learning. TIMSS & PIRLS International Study Center, Lynch School of Education, Boston College and International Association for the Evaluation of Educational Achievement (IEA). †
- O'Dwyer, L.M., Masters, J., Dash, S, Magidin De Kramer,* R., Humez,* A., & Russell, M. (2010). *Effects of On-Line Professional Development on Teachers and their Students: Findings from Four Randomized Trials*. Boston, MA: Technology and Assessment Study Collaborative, Boston College. †

- Bebell, D., Russell, M., & O'Dwyer, L.M. (2004). *Measuring teachers' technology uses: Why multiple-measures are more revealing*. Boston, MA: Technology and Assessment Study Collaborative, Boston College. †
- O'Connor, K., Goldberg, A., Russell, M., Bebell, D., & O'Dwyer, L.M. (2004). *Teachers' beliefs about access, use, support, and obstacles in using instructional technology*. Boston, MA: Technology and Assessment Study Collaborative, Boston College. †
- O'Dwyer, L.M., Russell, M., & Bebell, D. (2004). *Elementary teachers' use of technology: Characteristics of teachers, schools, and districts associated with technology use*. Boston, MA: Technology and Assessment Study Collaborative, Boston College. †
- Russell, M., O'Dwyer, L.M., Bebell, D., & Tucker-Seeley,* K. (2004). *Examining the relationship between students' mathematics test scores and computer use at home and at school*. Boston, MA: Technology and Assessment Study Collaborative, Boston College. †
- O'Dwyer, L.M., Russell, M., & Bebell, D. (2004). *Middle and High School teachers' use of technology: Characteristics of teachers, schools, and districts associated with technology use*. Boston, MA: Technology and Assessment Study Collaborative, Boston College. †
- Russell, M., Bebell, D., & O'Dwyer, L.M. (2003). *Use, support, and effect of instructional technology study: An overview of the USEIT study and the participating districts*. Boston, MA: Technology and Assessment Study Collaborative, Boston College. †
- Russell, M., O'Dwyer, L.M., Bebell, D., & Miranda, H. (2003). *Technical report for the USEIT study*. Boston, MA: Technology and Assessment Study Collaborative, Boston College. †
- Russell, M., O'Brien, E., Bebell, D., & O'Dwyer, L.M. (2003). *Students' beliefs, access, and use of computers in school and at home*. Boston, MA: Technology and Assessment Study Collaborative, Boston College. †
- Russell, M., Bebell, D., O'Dwyer, L.M., & O'Connor, K. (2003). *Teachers' beliefs about and use of technology: Enhancing the use of technology for new and veteran teachers*. Boston, MA: Technology and Assessment Study Collaborative, Boston College. †

AWARDS & PROFESSIONAL HONORS

* Indicates a student co-author † Indicates a publication funded through a grant

- 2015 Recipient of the *AERA 2014 Learning Environments SIG/Springer Award* for the best journal article (with Shelagh Peoples,* Yang Wang,* Jessica Brown,* and Dr. Camelia Rosca) †
- 2014 Recipient of the *Outstanding Research Award* from Division E, Counseling and Human Development, of the American Education Research Association (AERA) (with Dr. Paul Poteat and Ethan Mereish*).
- 5/12 Recipient of *Teaching with New Media Award* from Boston College's Instructional Design and eTeaching Services.
- 5/08 – 6/09 Recipient of *Teaching Advising and Mentoring (TAM)* grant (with Drs. Karen Arnold, Eric Dearing, and Patrick McQuillan). Award amount: \$15,000.

- 6/08 Recipient of *Teaching with New Media Award* from Boston College's Instructional Design and eTeaching Services.
- 10/02 Recipient of *Bruce H. Choppin Memorial Award* presented by the International Association for the Evaluation of Educational Achievement (IEA) for outstanding dissertation research that contributed to the field of educational research and measurement. †
- 4/01 Recipient of *Outstanding Graduate Student Award* presented by the Lynch School of Education at Boston College for seminal dissertation research, scholarly achievement and contribution to the Boston College community.
- 9/97 – 6/00 Recipient of *University Academic Planning Council "Spires of Excellence" Fellowship*, at Boston College to support doctoral work that could contribute to scholarship through joint research and writing with a mentor in the field.
- 9/92 – 12/94 Recipient of *Eolas Fellowship* presented by the Irish National Science Research Body. Awarded in recognition of outstanding performance in the field of scientific research.

RESEARCH GRANTS

- 9/16 - 8/20 Co-Principal Investigator with Drs. June Mark and Deborah Spencer (EDC). *Supporting Success in Algebra: A Study of the Implementation of Transition to Algebra*. National Science Foundation (NSF), DR-K12 program. Recommended for funding June/July 2016 (award pending). Amount: \$3,853,850.
- 9/14 – 8/17 Co-Principal Investigator on Boston College-funded Collaborative Fellows Grant with Drs. Maria Brisk and Patrick Proctor. Award amount: \$49,995.
- 9/16 – 8/17 Principal Investigator on Boston College-funded Collaborative Fellows Grant. Award amount: \$8,995.
- 9/08 – 8/12 Co-Principal Investigator with Paul Horwitz at Concord Consortium on *Evolution Readiness: A modeling approach* grant awarded by National Science Foundation (NSF), DR-K12 program. Award amount: \$2,000,000.
- 9/09 – 6/14 Co-Principal Investigator with Drs. Mike Barnett, David Blustein, Eric Strauss, and Charles Lord on *Creating College Pathways through the application of Technology to explore Urban Ecological Challenges* grant awarded by National Science Foundation (NSF), ITEST program. Award amount: \$1,499,812.
- 9/05– 10/11 Senior collaborator/co-PI with Drs. Michael Russell and Joseph Pedulla, the Education Development Center, and Alabama Educational Television Foundation Authority on *e-Learning for Educators* grant awarded by US Department of Education, Ready to Teach Grant Program. Award amount:

\$3,634,420.

- 6/03– 12/04 Principal Investigator on *Estimating the Full NAEP Population Distribution* grant funded through the NAEP Secondary Data Analysis Program. Award amount: \$199,000.
- 8/03– 8/04 Principal Investigator on *Examining Changes in International Multilevel Variance and Correlates of Mathematics Achievement using data from TIMSS 1995 and TIMSS 1999* grant funded through the AERA Grants Program.
Award amount: \$15,000.

INVITED LECTURES/PRESENTATIONS

- O'Dwyer, L.M., (2015). *Preparing researchers 2.0*, Meeting in the Middle: Preparing Researchers and Practitioners to Engage in Collaborative Research Webinar, Regional Education Laboratory, Northeast and Islands, EDC.
- O'Dwyer, L.M. (2014). *Exploring Performance in Education Internationally: Where the Data Come From and Why it Matters*. Center for the Study of Testing, Evaluation, and Educational Policy (CSTEPP) Lecture Series, September 2014.
- O'Dwyer, L.M. (2013). *Exploring research and data collection methods to measure teachers' participation and learning in new, online learning environments*. NSF-Funded Digital Learning and Collaboration Research Conference: Which Digital Design Constructs Can Best Help Teachers Meet National Standards Expectations? Northwestern University, Evanston, Illinois.
- O'Dwyer, L.M., (2013). *TIMSS and PIRLS 2011 Effective Schools Analyses*, TIMSS and PIRLS 9th National Research Council Meeting, Hamburg, Germany.
- O'Dwyer, L.M., (2013). *Surveys as measurement tools*, National University of Ireland Galway.
- O'Dwyer, L.M., (2013). *Best practices in survey construction*, Clare-Limerick Educational Research Conference, Ireland.
- O'Dwyer, L.M., (2013). *Informing policy and practice: International comparative studies*, National University of Ireland Galway.
- O'Dwyer, L.M., (2013). *The role of randomized experiments in education*, National University of Ireland Galway.
- O'Dwyer, L.M., (2013). *Survey construction in the social sciences*, Mary Immaculate College, Ireland.
- O'Dwyer, L.M., (2011). *Using large-scale assessment data for guiding policy: Examining the student and school correlates of performance on Maine's high school assessment*, North Carolina State University.
- O'Dwyer, L.M., (2010). *Assessment and academic excellence in Catholic schools*, Catholic Schools as Schools of Academic Excellence Conference, Boston College.

PROFESSIONAL PRESENTATIONS

* Indicates a student co-presenter

- O'Dwyer, L.M. & Newton,* A.D. *Propensity Score Analysis for Examining the Effects of a District-Level Intervention: A Model for School-University Partnerships*. Paper presented at the annual meeting of the American Educational Research Association, April 2016, Washington DC.
- Littenberg-Tobias,* J., & O'Dwyer, L.M. *Using teacher judges to create subjectively weighted scales of instructional practice from teacher Survey Responses: A New Method for Creating Measures of Teachers' Instructional Practices from Large-Scale Assessment Data*. Paper presented at the annual meeting of the American Educational Research Association, April 2016, Washington DC.
- O'Dwyer, L.M., Lee St. John,* T, Raczek, A.E, & Walsh, M. *Examining the role of early academic and non-cognitive skills as mediators of the effects of City Connects on middle school academic outcomes*. Poster presented at the annual meeting of the Society for Research on Educational Effectiveness, March 2016, Washington DC.
- Parker, C.E., & O'Dwyer, L.M. *The correlates of academic performance for English learner students in a New England District*. Paper presented at the annual meeting of the Society for Research on Educational Effectiveness, March 2016, Washington DC.
- Yurtseven Avci, Z. & O'Dwyer, L.M. *Effective Technology Professional Development: A Systematic Review*. Paper presented at the annual meeting of the Society for Information Technology & Teacher Education conference, March 2016, Savannah GA.
- O'Dwyer, L.M. *Domains of knowledge for principal leadership in serving English Learners*. Paper presented at the annual meeting of the American Educational Research Association, April 2015, Chicago, Illinois.
- Spencer, D.B., Mercer Young, J., Reed, K., Mark, J., & O'Dwyer, L.M. *The effect of district support for implementation of mathematics materials: A longitudinal analysis of fourth grade student outcomes*. Paper presented at the annual meeting of the American Educational Research Association, April 2015, Chicago, Illinois.
- Shields,* K.A., & O'Dwyer, L.M. *Remedial education at two-year colleges: A multinomial analysis of degree attainment outcomes*. Paper presented at the annual meeting of the Association for the Study of Higher Education (ASHE), November 2014, Washington, DC.
- Irwin, C., DeMeo-Cook,* K., & O'Dwyer, L.M. *A collaborative process for developing surveys: New surveys of early educators*. Paper presented at the annual meeting of the Eastern Psychological Association, March 2014, Boston, Massachusetts.
- Shields,* K.A., & O'Dwyer, L.M. *College completion and remedial education: Do institutional characteristics make a difference?* Paper presented at the annual meeting of the American Educational Research Association, April 2014, Philadelphia, Pennsylvania.
- O'Dwyer, L.M., Wang,* Y., & Shields,* K. *Teachers' instructional practices and eighth-grade students' mathematics achievement: Examining international patterns*. Paper presented at the annual meeting of the American Educational Research Association, April 2012, Vancouver, Canada.

- O'Dwyer, L.M., Peoples,* S., Wang,* Y., & Shields,* K. *Development and application of the Elementary School Science Classroom Environment Scale (ESSCES): Measuring student perceptions of constructivism within the science classroom*. Roundtable presented at the annual meeting of the American Educational Research Association, April 2012, Vancouver, Canada.
- O'Dwyer, L.M., Peoples,* S., Wang,* Y., & Shields,* K. *Teaching younger students about evolution: Examining the evidence from a three-year study*. Roundtable presented at the annual meeting of the American Educational Research Association, April 2012, Vancouver, Canada.
- Peoples,* S., O'Dwyer, L.M., Shields,* K., & Wang,* Y. *With hiccups and bumps: An innovative measure of elementary student understanding of the nature of scientific practices*. Paper presented at the annual meeting of the American Educational Research Association, April 2012, Vancouver, Canada.
- DeMeo,* K.R., O'Dwyer, L.M., & Riordan, J. *An examination of the relationship between state requirements for high school diploma programs and student achievement in Rhode Island*. Roundtable presented at the annual meeting of the American Educational Research Association, April 2012, Vancouver, Canada.
- O'Dwyer, L.M., & Rosca, C. *Getting kids to understand evolution: First-year implementation results*. Poster presented at the annual meeting of the American Educational Research Association, April 2011, New Orleans, LA.
- Brown,* J., & O'Dwyer, L.M. *Measurement of scientific inquiry in the elementary school classroom: Challenges and application*. Poster presented at the annual meeting of the American Educational Research Association, April 2011, New Orleans, LA.
- O'Dwyer, L.M., Dash, S., Masters, J., Magidin De Kramer,* R., Humez,* A., & Russell, M. *The Effects of Online Professional Development on English Language Arts (ELA) Outcomes: Results From Two Randomized Controlled Trials*. Paper presented at the annual meeting of the American Educational Research Association, April 2011, New Orleans, LA.
- O'Dwyer, L.M., Dash, S., Masters, J., Magidin De Kramer,* R., Humez,* A., & Russell, M. *The effects of online professional development on math outcomes: Results from two randomized controlled trials*. Roundtable presented at the annual meeting of the American Educational Research Association, April 2011, New Orleans, LA.
- O'Dwyer, L.M. (2011) *Findings from the Evolution Readiness project: A modeling approach study*. Paper presented at the annual conference of the National Science Teachers' Association (NSTA), March 2011, San Francisco, CA.
- O'Dwyer, L.M., & Kavanaugh,* M. *Exploring the moderating effect of school SES on the mediating role of self efficacy: Gender differences on standardized tests of mathematics performance*. Paper presented at the annual meeting of the American Educational Research Association, April 2010, Denver, CO.
- O'Dwyer, L.M., & Wang,* Y. *Teacher-directed student-use of technology and mathematics achievement: Examining international patterns*. Paper presented at the annual meeting of the American Educational Research Association, April 2010, Denver, CO.

- Rosca, C.V., O'Dwyer, L.M., Horwitz, P., Staudt, C., Peoples,* S., Brown,* J. & Wang,* Y. *Development of an evolution readiness learning goals progression and Concept Inventory for Evolution Readiness (CIER)*. Poster presented at the annual meeting of the American Educational Research Association, April 2010, Denver, CO.
- Horwitz, P., Staudt, C., O'Dwyer, L.M., & Rosca, C.V. *Teaching and assessing "evolution readiness" to fourth graders using games*. Structured poster presented at the annual meeting of the American Educational Research Association, April 2010, Denver, CO.
- Ehrlich, S., Sanchez, M.T., Midouhas, E. & O'Dwyer, L.M. *Understanding the correlates of performance for Hispanic high school students on a mandated state assessment*. Paper presented at the annual meeting of the American Educational Research Association, April 2009, San Diego, CA.
- O'Dwyer, L.M., & Hall-Reynolds,* C.A. *Examining the relationships among emotional intelligence, coping mechanisms for stress and leadership effectiveness for middle school principals*. Paper presented at the annual meeting of the American Educational Research Association, April 2009, San Diego, CA.
- O'Dwyer, L.M., Carey, R., & Kleiman, G. *The Louisiana Algebra I Online Initiative as a model for teacher professional development: Examining teacher experiences*. Paper presented at the annual meeting of the American Educational Research Association, April 2008, New York, NY.
- O'Dwyer, L.M., Carey, R., & Kleiman, G. *A study of the effectiveness of the Louisiana Algebra I Online course*. Paper presented at the annual meeting of the American Educational Research Association, April 2008, New York, NY.
- Parker, C.E., Louie, J., & O'Dwyer, L.M. *Deepening analysis of large-scale assessment data: Understanding the results for English language learners*. Paper presented at the annual meeting of the American Educational Research Association, April 2008, New York, NY.
- O'Dwyer, L.M., Michelli, N., Asbell-Clarke, J., & Picciano, A. *Online learning in American K-12 education: Should teacher educators be preparing future teachers for online learning?* Paper presented at the annual meeting of the Association of Colleges of Teacher Education (AACTE), February 2008, New Orleans, LA.
- O'Dwyer, L.M., Russell, M., Tao,* W., & Bebell, D. *How teachers' uses of technology vary by tenure and longevity*. Paper presented at the annual meeting of the American Educational Research Association, April 2007, Chicago, Ill.
- Bebell, D., O'Dwyer, L.M., Russell, M., & Hoffman, T. *Advancing data collection in the digital age: Methodological challenges and solutions in educational technology research*. Paper presented at the annual meeting of the American Educational Research Association, April 2007, Chicago, Ill.
- O'Dwyer, L. M., & Shen, C. *Multilevel analysis of mathematics achievement in the context of socioeconomic development using TIMSS 1999 data*. Paper presented at the annual meeting of the American Educational Research Association, April 2006, San Francisco, CA.
- O'Dwyer, L. M. *Understanding how schools and districts can support teachers' use of technology*. Component of a symposium presented at the annual meeting of the American Educational Research Association, April 2006, San Francisco, CA.

- O'Dwyer, L.M., & Hoyle,* C. *Estimating the NAEP population distribution: Imputing scores for excluded students using Hierarchical Linear Modeling techniques*. Paper presented at the annual meeting of the American Educational Research Association, April 2005, Montreal, QB.
- O'Dwyer, L.M., Russell. M., & Bebell, D. *Examining the relationship between computer use at home and in school, and student achievement*. Paper presented at the annual meeting of the American Educational Research Association, April 2005, Montreal, QB.
- O'Dwyer, L.M., Boccia, J., Hodgman, J., Grolnic, S., & Rancourt, M.E. *Building and sustaining a multi-constituent collaboration*. Symposium presented at the annual meeting of the New England Educational Research Organization, 2005, Northampton, MA.
- O'Dwyer, L.M., Russell. M., & Bebell, D. *Identifying teacher, school and district characteristics associated middle and high school teachers' use of technology: A multilevel perspective*. Paper presented at the annual meeting of the New England Educational Research Organization, April 2005, Northampton, MA.
- Bebell, D., O'Dwyer, L.M., Russell, M. & Seeley.* K. *Estimating the effect of computer use at home and in school on student achievement*. Paper presented at the Annual National Educational Computing Conference, June 2004, New Orleans, LA.
- O'Dwyer, L.M., Russell. M., & Bebell, D. *Understanding technology use from a multilevel perspective: Examining the factors associated with increased use of technology*. Paper presented at the annual meeting of the American Educational Research Association, April 2004, San Diego, CA.
- O'Dwyer, L.M., Russell. M., & Bebell, D. *Elementary teachers' use of technology: A multilevel perspective* Paper presented at the annual meeting of the American Educational Research Association, April 2004, San Diego, CA.
- O'Dwyer, L.M., Russell. M., Bebell, D., & O'Connor, K. *Examining teacher technology use: Implications for pre-service and in-service teacher preparation*. Paper presented at the annual meeting of the American Educational Research Association, April 2004, San Diego, CA.
- O'Dwyer, L.M. *Examining changes in international multilevel variance and student correlates of mathematics achievement using data from TIMSS 1995 and TIMSS 1999*. Paper presented at the annual meeting of the American Educational Research Association, April 2003, Chicago, Ill.
- O'Dwyer, L.M., Russell. M., & Bebell, D. *Employing multilevel analysis to examine factors influencing technology use*. Paper presented at the annual meeting of the American Educational Research Association, April 2003, Chicago, Ill.
- O'Dwyer, L.M., Russell. M., & Bebell, D. *Examining teacher use of technology: Data from the USEIT study*. Paper presented at the annual meeting of the American Educational Research Association, April 2003, Chicago, Ill.
- O'Dwyer, L.M., Russell, M., & Bebell, D. *Understanding how district, school, teacher, and student factors influence technology use in schools*. Paper presented at the annual meeting of the Eastern Educational Research Association, February 2003, Hilton Head, SC.
- O'Dwyer, L.M. *Extending the application of multilevel modeling to data from the Third International Mathematics and Science Study (TIMSS)*. Paper presented at the annual

meeting of the American Educational Research Association, April 2001, Seattle, WA.

O'Dwyer, L.M. *Practical ways to avoid cheating on classroom assessments*. Paper presented at the annual meeting of the New England Educational Research Organization, April 1998, Portland, ME.

O'Dwyer, L.M. *Analyzing data from midterms using the Rasch Item Response Theory model*. Paper presented at the annual meeting of the New England Educational Research Organization – Institute for Objective Measurement, April 1998, Portland, ME.

PROFESSIONAL CONTRIBUTIONS AND SERVICE

2015 – Present Associate Editor, *Irish Educational Studies* journal.

2015 – Present AERA Division D: Member of the Robert L. Linn Distinguished Address Award Committee of AERA Division D.

2009 – 2010 Special Edition Editor, *Journal of Technology, Learning, and Assessment*.

2010 – Present Member of the Concord Consortium Institutional Review Board (appointed).

Advisory Roles

2014 – Present Methodological and data analysis advisor. City Connects at the Center for Optimized Student Support, Lynch School of Education, Boston College.

2014 – Present Methodological and data analysis advisor, NIH-funded *Broadening Experiences in Scientific Training (BEST)* grant program at the University of Massachusetts Medical School.

2012 – Present Advisor to Milton Public School District, Milton, Massachusetts.

2015 – Present Methodological and data analysis advisor, IES-funded *Seeds of STEM* program at Worcester Polytechnic Institute.

2006 – Present Methodological and data analysis advisor, IES-funded *Regional Educational Laboratory – New England and Islands (REL-NEI)*, Education Development Center.

2015 – Present Advisory Board member for Heising-Simons Foundation-funded study, *Family Engagement in Early Math (FEEM)*, Education Development Center.

2013 – Present Advisory Board member for NSF-funded study, *Scaffolding Mastery Motivation*, Education Development Center.

2013 – Present Methodological and data analysis advisor. *Evaluation of the Professional Diploma in Mathematics for Teaching (PDMT)*, University of Limerick, Ireland.

2014 – Present Advisory Board member for NSF-funded study, *VideoReView: Helping Teachers Develop a Deeper Understanding of the Teaching and Learning Dynamics in Their Classroom*, TERC.

2013 – Present Advisory Board member for NSF-funded study, *Building Computational*
O'Dwyer: Curriculum Vita

Thinkers through Informal Exhibit Experiences, Museum of Science, Boston.

- 2007 – 2011 Advisory Board member for NSF-funded *Project RISE Pilot Study (PRPS): Addressing Methodological Challenges in Longitudinal Studies of Informal Science Education Outcomes*, Education Development Center.
- 2008 – 2013 Advisory Board member for NSF-funded, *Promoting STEM Career Interest in the Classroom: An Exploratory Study Linking Teacher Professional Development with Changes in Teaching Practices*, Education Development Center.
- 2005 – 2010 Methodological and data analysis advisor, US DoE-funded SmART Schools project, Education Development Center.
- 2004 – 2008 Methodological and data analysis advisor, Center for Field Services and Studies (CFSS) at University of Massachusetts Lowell.
- 2006 – 2007 Methodological and data analysis consultant, Concord Consortium.

Review Panel Member

- 2014 – Present Invited reviewer for the Institute of Education Sciences (IES) research grant program.
- 2015 Invited reviewer for the AERA Division D Graduate Student In-progress Research Gala.
- 2014 Invited reviewer for the Social Sciences and Humanities Research Council of Canada.
- 2013 Invited reviewer for the National Science Foundation's Discovery Research – K12 (DR-K12) program.
- 2011-2013 Invited external reader for the National Academy of Education (NAEd)/Spencer Fellowship Program.
- 2012 Invited reviewer for the Icelandic Research Fund's Expert Panel of Social Sciences.

External Doctoral Thesis Examiner

University of Notre Dame, Australia

University of Auckland, New Zealand

Ad Hoc Manuscript and Textbook Reviewer

AERA Open, *Journal of Research on Educational Effectiveness (JREE)*, *Applied Development Science (ADS)*, *Journal of Teacher Education (JTE)*, *Journal of Technology, Learning and Assessment (JTLA)*, *Educational Evaluation and Policy Analysis (EEPA)*, *Journal of Educational Computing Research (JECR)*, *Journal of Educational Change (JEC)*, *Educational Policy (EP)*, *Journal of Research in Rural Education (JRRE)*, *Psychology of Women Quarterly*.

Textbook reviewer for Psychology Press/Routledge, Taylor and Francis Group.

University and Lynch School of Education Service

- 2016 (spring) Acting-Department Chair, Educational Research, Measurement, and Evaluation (appointed).
- 2015 –2016 Planning Committee Member for Advancing Research and Scholarship at Boston College Research Day, March 2016 (appointed).
- 2016 – 2017 Chair of the Boston College Provost’s Advisory Council (elected).
- 2016 – 2019 Member of the Boston College Provost’s Advisory Council (elected).
- 2013 – 2016 Member of the Boston College Provost’s Advisory Council (elected).
- 2014 – 2016 Member of the LSOE Nominating Committee (elected).
- 2014 – 2015 Member of the LSOE search committee for Associate Dean (appointed).
- 2013 – 2014 Member of the LSOE Faculty Awards Committee (elected).
- 2013 – Present Member of the LSOE Committee on Technology (appointed).
- 2013 – Present Member of the LSOE Taskforce on Sponsored Research (appointed).
- 2011 – 2012 Member of the LSOE search committee for Dean (appointed).
- 2010 – 2011 Search Committee Chair, Department of Educational Research, Measurement, and Evaluation (appointed).
- 2010 – 2013 Member of the Boston College Institutional Review Board (IRB) (elected).
- 2007 – 2009 Member of the LSOE Education Policy Council (EPC) (elected).
- 2009 Faculty advisor for the Graduate Student Research Forum in spring 2009.
- 2008 – 2009 Search committee member, Teacher Education, Special Education, and Curriculum and Instruction (appointed).
- 2007 – 2008 Search committee member, Department of Educational Research, Measurement, and Evaluation (appointed).

Membership in Professional Associations/Societies

American Educational Research Association (AERA), the Society for Research on Educational Effectiveness (SREE)

Contributions to the Community

- 2005 Search committee member for School Principal, Saint Mary of the Hills School, Milton, MA.
- 2008 Strategic Planning Committee member, Ursuline Academy, Dedham, MA.
- 2012 Search committee member for School Principal, Milton Public Schools, Milton, MA.

COURSES TAUGHT

Boston College

APSY 216 Research Methods and Analysis (undergraduate level)

ERME 7468 Introductory Statistics (masters level)

ERME 7469 Intermediate Statistics (masters and doctoral levels)

ERME 8861 Multilevel Regression Models (doctoral level)

ERME 8862 Design of Experiments (doctoral level)

ERME 8864 Survey Methods in Educational and Social Research (doctoral level)

University of Massachusetts, Lowell

05.730 Advanced Quantitative Research Seminar I (doctoral level)

07.640 Research Methods (doctoral level)

07.701 Seminar in Data Analysis (doctoral level)

07.702 Research Methods and Design (doctoral level)

07.705 Survey Research Strategies and Techniques (doctoral level)