

Seán F. Delaney

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Education

- Ph.D. Teaching and Teacher Education (with a focus on mathematics education)
University of Michigan School of Education, 2008
Dissertation Title: Adapting and Using U.S. Measures to Study Irish Teachers'
Mathematical Knowledge for Teaching
Academic advisor: Professor Deborah Loewenberg Ball.
- M.Ed. Technology in Education, Harvard University, Cambridge, MA 1999
- B.Ed. (Hons) Primary teaching certification, St. Patrick's College, Dublin, Ireland 1987
- Dip. Curr. Studies Teaching of English, Trinity College, Dublin, Ireland 1999
- Dip. Curr. Studies Educational Management, Trinity College, Dublin, Ireland 1995
- Cert in T.E.F.L. University College Dublin, Ireland 1994

Awards and Distinctions

- 2013 Named the inaugural Naughton Fellow and spent one semester (Spring 2014) at the Alliance for Catholic Education at the Institute for Educational Initiatives at the University of Notre Dame
- 2008 Awarded a Rackham One-Term Dissertation Fellowship by the University of Michigan for the winter semester
- 2007 Awarded a Spencer Mini-Grant for Student-Initiated Research from the Graduate Affairs Committee of the School of Education, University of Michigan
- 2006 Named an International Institute Individual Fellow at the University of Michigan. Fellowship awarded to support studying the relationship between the work of teaching and the knowledge required for teaching mathematics in Ireland and the United States
- 2003 Awarded Texas Instruments International Speakers Grant by National Council of Teachers of Mathematics
- 1998 Named Fulbright-Ireland Boyer Scholar in Education

Research Experience

Principal Investigator

- April 2009 – April 2010 A Study of Teaching the Skills of the Primary School Mathematics Curriculum
- Received funding from the Irish Teaching Council
- Jan. 2004 – Sept. 2008 Investigating Irish Teachers' Knowledge of Mathematics for Teaching
Marino Institute of Education, Dublin, Ireland.
- Received funding from the Irish Department of Education and Science (€20,000)
 - Passed University of Michigan institutional review
 - Adapted US measures of mathematical knowledge for use in Ireland
 - Collected test data from 100 Irish teachers (pilot test)
 - Collected data from 500 teachers (random representative sample)
 - Interviewed nine teachers and one mathematician
 - Transcribed interviews
 - Presented analysis of data at American Educational Research Association (AERA) annual conference in April 2005
 - Collected classroom video data from ten Irish teachers who also completed the questionnaire

Graduate Student Researcher

- January 2004 - 2008 Learning Mathematics for Teaching, University of Michigan, Ann Arbor, MI
- Principal Investigators: Deborah Loewenberg Ball and Heather C. Hill.
- Worked on developing and applying video-codes to study mathematics lessons and analysing the data produced
 - Developed, piloted and revised items to measure teachers' mathematical knowledge for teaching
 - Prepared research reports for presentations at the annual American Educational Research Association (AERA) conference

Research Interests

Knowledge base in the professions; measuring teacher knowledge; studying the practice of teaching; comparing professional knowledge across cultures; mathematics education; teaching and teacher education.

Pre-service Teacher Education Experience

- 2010 – present Registrar, Marino Institute of Education
- 2006 –2010 Senior Lecturer (Teaching, Learning and Research)
Marino Institute of Education, Dublin, Ireland
- 2003-2006 Coordinator of Curriculum and Research
Marino Institute of Education, Dublin, Ireland
- 1999 – present Lecturer in mathematics and mathematics education

External Examiner

2014 - 2018

External Examiner on B.Ed. programme at Stranmillis University College, Belfast.

Professional Development for Teachers

- 2015 Summer course for teachers: "Looking at Teaching, Children and Mathematics" At the centre of this course was a laboratory class where I taught fourth class pupils and teachers observed and discussed the teaching.
- 2013 Summer course for teachers: "Looking at Teaching, Children and Mathematics" At the centre of this course was a laboratory class where I taught 21 third class pupils and teachers observed and discussed the teaching.
- 2011 Summer course for teachers: "Mathematics Teaching: Discussing Practice and Solving Problems" At the centre of this course was a laboratory class where I taught 20 first class pupils and teachers observed and discussed the teaching.
- 2011 Mathematics Laboratory Class for members of the Professional Development Service for Teachers (PDST). In this laboratory class I taught 19 fifth class children while the PDST advisors observed and discussed the teaching.
- 2010 Summer course for teachers: "Looking at Teaching, Children and Mathematics" At the centre of this course was a laboratory class where I taught 25 third class pupils and teachers observed and discussed the teaching.
- 2009 Summer course for teachers: "Looking at Teachers, Learners and Mathematics." At the centre of this course was a laboratory class where I taught 25 third class pupils and teachers observed and discussed the teaching.
- 2007 Summer course for teachers "Teaching Children Mathematics." This was a laboratory course where teachers observed me teaching mathematics to 20 third class pupils and discussed the teaching.
- 2005 Summer course for teachers "Reflecting on mathematics teaching and learning"

Primary Teaching Experience

1988-2001

Kilkenny School Project, Kilkenny, Ireland.
Principal teacher (1 year), Class teacher (7 years), Resource teacher (2 years). Held additional management duties concurrently for 3 years and was appointed to the position of permanent deputy principal in 1999, while on secondment to Marino Institute of Education.

1987-1988

North Dublin National School Project and Scoil Mhuire, Abbeyleix: Substitute teacher

Peer-Reviewed Journal Articles

Blömeke, S. & Delaney, S. (2012). Assessment of teacher knowledge across countries: A review of the state of research. *ZDM*, 44 (3), 223-247.

Delaney, S. (2012). A validation study of the use of mathematical knowledge for teaching measures in Ireland. *ZDM* 44 (3), 427-441.

Charalambous, C.Y., Delaney, S., Hsu, H-Y., Mesa, V. (2010). A comparative analysis of the addition and subtraction of fractions in textbooks from three countries. *Mathematical Thinking and Learning* 12 (2)

Delaney, S., Ball, D.L., Hill, H.C., Schilling, S.G., Zopf, D. (2008). "Mathematical knowledge for teaching": Adapting U.S. measures for use in Ireland *Journal of Mathematics Teacher Education* 11 (3)

Book

Delaney, (forthcoming). *Become the Primary Teacher Everyone Wants to Have: A Guide to Career Success*. London: Routledge.

Book Chapters

Stylianides, A & Delaney, S (2011) "The Cultural Dimension of Teachers' Mathematical Knowledge" in Rowland, T. & Ruthven (eds) *Mathematical Knowledge in Teaching*. Springer Science+Business Media.

Blömeke, S. & Delaney, S. (2012). Assessment of teacher knowledge across countries: A review of the state of research. (This is a reprint of the peer reviewed journal article listed above).

Report

Delaney, S (2010) *Knowing What Counts: Irish Teachers' Mathematical Knowledge for Teaching*. Prepared for the Irish Department of Education and Science and published jointly by Marino Institute of Education and the Department of Education and Science.

Articles for Practitioners

Fitzpatrick, S., Delaney, S., & Forster, A (2013) Great Teachers: Born or Taught?. *Intouch*. (Issue No. 133, Jan/February 2013)

Delaney, S. (2012) Maths teaching in your school: Questions to clarify and change practice. *Leadership+* (Journal of the Irish Primary Principals' Network)

Delaney, S. (2010) The absent voice of teachers. *Intouch*. (Issue No. 114, October 2010)

Delaney, S (2008) Knowledge for practice: The mathematical demands of primary teaching. *Intouch* (Issue No. 98, November 2008)

Delaney, S (2008) Unacknowledged expertise: Irish teachers' mathematical knowledge for teaching. *Intouch* (Issue No. 97, October 2008)

Delaney, S. (2003) Different ways to calculate, *Intouch* (Issue No. 46, January/February 2003)

Delaney, S. (2002) Teaching mathematics through hurling, football and camogie *Newsletter of Primary Teachers Mathematics Association*, (February)

Delaney, S. (1995) Dublin 1094 km: An exchange with a Spanish teacher, *Education today*, (Summer)

Other Publications

Delaney, S. (2012) Led the development of a replacement unit pupils' book for teaching the topic area to fifth class pupils and an annotated pupils' book for teachers, with members of the Professional Development Service for Teachers.

Conference Presentations

Delaney, S., Ó Breacháin, A., Macken, S. (2015). *Assessing student primary teachers' use of high leverage practices at scale*. AERA annual meeting, Chicago, IL (20 April).

Delaney, S., Ó Breacháin, A., Bacon, K., O'Toole, B., and Macken, S. (2014). *Innovation in practice: Designing, implementing and evaluating a course on approximations of practice*. AERA annual meeting, Philadelphia, PA (6 April).

Jakobsen, Arne et al. (2013). *Studying practice and developing practice-based studies* symposium. 15th Biennial EARLI Conference, Munich, Germany. (26-31 August). I was discussant for the four papers presented in this symposium.

Jakobsen, A., Thames, M. H., Ribeiro, C. M. & Delaney, S. (2012) *Using practice to define and distinguish horizon content knowledge*. 12th International Congress on Mathematical Education. Seoul, Korea. (8-15 July)

Jakobsen, A., Thames, M. H., Ribeiro, C. M. & Delaney, S. (2012) *Broadening the content and curriculum horizon for all mathematics teachers*. Symposium paper at AERA annual meeting, Vancouver, Canada. (15 April)

Delaney, S. (2011) *Teaching in Context: Equivalence in the Elementary School*. Roundtable presentation at the annual AERA annual meeting, New Orleans, USA. (April 9th)

Delaney, S. (2010) with Corcoran, D. and Leavy, A. *Mathematics Teaching as an Activity and an Object of Study*. AERA annual meeting, Denver, USA (May 1st)

Delaney, S. (2010) *Teaching equivalence to promote children's mathematical thinking: A study of practice*. Educational Studies Association of Ireland (ESAI) annual conference, Dundalk (March 26th)

Delaney, S. (2009) *Mathematical knowledge for teaching 3-D shapes*. In Corcoran, D., Dooley, T., Close, S., & Ward, R. (Eds.) *Proceedings of the third national conference on research in mathematics education* (p. 92 – 103). Dublin, Ireland: St. Patrick's College

Delaney, S. (2009) *Using qualitative and quantitative methods to study equivalence of a teacher knowledge construct*. AERA annual meeting, San Diego, USA (April 15th)

Mehigan, G. & Delaney, S. (2009) *Developing a mission, vision and agenda for the Irish Colleges of Education Research Consortium (CERC)*. AERA annual meeting, San Diego, USA (April 14th)

- Mehigan, G. & Delaney, S. (2009) *Perceptions of pre-service primary teacher educators on the preparation of prospective teacher educators*. ESAI annual conference, Kilkenny (April 4th)
- Delaney, S. & Mehigan, G. (2009) *Becoming and being a primary teacher educator* ESAI annual conference, Kilkenny (April 3rd)
- Delaney, S. (2008) *The role of teacher knowledge in promoting attainment in mathematics*. Keynote address to the Joint Department of Education – Department of Education and Science Conference on Numeracy in Primary Schools. Cavan (November 13th)
- Delaney, S., Charalambous, C., Hsu, Hui-Yu & Mesa V. (2007) *The treatment of addition and subtraction of fractions in Cypriot, Irish and Taiwanese textbooks*. PME 31, Seoul National University, Korea (July 13th)
- Charalambous, C., Delaney, S Hsu, Hui-Yu & Mesa V. (2007) *Opportunities to learn fractions in fourth-grade elementary classes: Insights from an analysis of textbooks used in Cyprus, Ireland and Taiwan*. AERA annual meeting, Chicago, USA, (April 12th)
- Ball, D.L., Bass, H., Suzuka, K., Sleep, L, Delaney, S., Goffney, I. M. (2007) *The Laboratory Class: A multidisciplinary approach to Studying the teaching and learning of mathematics* (Symposium overview) AERA annual meeting, Chicago, USA (April, 10th)
- Delaney, S. and Mehigan, G. (2007) *Teacher educators in the Republic of Ireland: Report on pilot study* ESAI annual conference, Cavan, (March 30th)
- Delaney, S. (2005) *Mathematics professional development for primary teachers: Looking back and looking forward* Mathematics education in Ireland: A research perspective, St. Patrick's College, Dublin (September). Paper published in proceedings and available at <http://www.spd.dcu.ie/main/academic/education/documents/Proceedings.pdf>
- Delaney, S., Zopf, D., Ball, D.L. and Hill, H. C. (2005) *Is "Mathematical knowledge for teaching" a general or culturally particular construct?* AERA annual conference, Montréal, Canada (April)
- Sleep, L., Delaney, S., Dean, C., Ball, D.L. and Hill, H.C. (2005) *Validating "Mathematical knowledge for teaching": Evidence from mathematicians' performance on teacher knowledge items* AERA annual conference, Montréal, Canada (April)
- Delaney, S. (2003) *Using case methods to prepare pre-service elementary school teachers to teach mathematics* NCTM annual meeting, San Antonio, Texas (April)
- Delaney, S. (1998) *TINOR: Teaching Irish for no obvious reason?* Annual education conference of the Association of Teachers' Centres in Ireland, Cork

Invited Presentations

2016, March Numeracy for Life. Invited Presentation to Northside Partnership.

- 2014, Oct. Beginning the Journey: Research Informing Teaching: Early Professional Development. Invited workshop presentation to the Twelfth Annual SCoTENS conference in the Killyhevlin Hotel, Enniskillen (22 October)
- 2014, Oct. Mathematics Teaching in Primary School and High Leverage Practices. Invited talk to the Irish Mathematics Teachers' Association Mathsfest. (11 Oct)
- 2014, Oct. Examining Records of Primary Mathematics Teaching for High Leverage Practices." Invited workshop at the Irish Mathematics Teachers' Association Mathsfest 2014. (11 Oct).
- 2014, Sept What to Consider When Evaluating Mathematics Teaching. Invited Address to Primary School Inspectors of the Department of Education and Skills. (6 September)
- 2014, April Learning in University to Teach in School: Two Cases from Ireland. Address to the Alliance for Catholic Education at the Institute for Educational Initiatives, University of Notre Dame (23 April)
- 2013, Nov Developing Numeracy for all Children: Supporting Teachers Supporting Learning Invited Keynote address to INTO Consultative Conference in Heritage Hotel, Portlaoise. (16 November)
- 2013, Oct Teaching the Practice of Teaching: Approximations of Practice Invited workshop presentation to Annual SCoTENS conference in the Radisson Blu Hotel, Sligo (10 October)
- 2013, March with Gene Mehigan Teachers' Training for Improving Learners' Literacy and Numeracy Invited presentation to educators on European Study Visit, No. 172 (14 March)
- 2013, Jan Teaching, Leading and Managing Mathematics. Invited seminar presentation to the Irish Primary Principals' Network annual conference in City West Hotel, Dublin (24 and 25 January)
- 2012, Oct. Mathematics Teaching, Problems, and Professional Development. Invited address to the Association of Teachers'/Education Centres in Ireland annual conference (20 October)
- 2012, Oct. Problems in Teaching Primary School Mathematics Invited seminar to primary school teachers organised by Laois Education Centre. (18 October)
- 2012, Sept. Developing Maths Skills through Inspection: Strategies, Scenarios and Challenges Invited seminar to the Department of Education and Skills Primary Inspectorate. (6 September)
- 2012, May Validating the Use in Ireland of Adapted U.S. Measures of Mathematical Knowledge for Teaching

- Invited seminar to the Mathematics Education Research Group at the University of Oxford. (10 May)
- 2012, April Teaching Mathematics to Promote Children's Thinking
Invited seminar to primary school teachers organised by Kilkenny Education Centre. (24 April)
- 2012, March Teaching Mathematics
Invited workshop for teachers in Scoil Mhuire, Abbeyleix. (15 March)
- 2012, March Integrating Mathematics and Physical Education.
Invited plenary presentation to the Irish Primary Physical Education Association. Marino Institute of Education, 3 March 2012.
- 2012, January Principals Leading Numeracy 2.
Invited seminar presentation to the Irish Primary Principals' Network annual conference on 26 and 27 January.
- 2011, Sept. Learning to Teach Primary School Mathematics. Invited workshop at SCoTENS Annual Conference 2011 at the Radisson Blu Farnham Estate Hotel, Cavan (29 September).
- 2011, June "Comparing MKT across countries: Much done, more to do." Invited presentation to Sola Seminar on Mathematical Knowledge for Teaching at Stavanger in Norway. 21 June.
- 2011, May Thinking about Mathematics Teaching. Keynote address at the IPPN Deputy Principals' Conference 2011 at the Citywest Hotel & Conference Centre, Dublin 20 May.
- 2011, May Presentation on learning and teaching mathematics.
Invited address to the annual meeting of the Professional Development Service for Teachers at the Keadeen Hotel in Newbridge (May 19th)
- 2011, May Teaching Primary Mathematics
Invited address to teachers in Caragh NS, Kildare and surrounding schools. (May 12th)
- 2011, April Mathematics for Learning Support and Resource Teachers
Invited presentation in Seville Lodge Kilkenny on 5 April.
- 2011, January Principals Leading Numeracy.
Invited seminar presentation to the Irish Primary Principals' Network annual conference on 27 and 28 January.
- 2011, January Literacy, Numeracy and DEIS teams of PDST
Invited seminar presentation to the Professional Development Service for Teachers on 14 January.
- 2010, May Primary School Mathematics as a Preparation for Project Maths

Invited presentation to the Dublin Branch of the Irish Mathematics Teachers' Association

2008, Oct. Adapting measures of mathematical knowledge for teaching. Invited two-day seminar, University of Stavanger, Norway.

2007, Sept. Unpacking multiplication and Using materials to model division of whole numbers. Invited presentations to Primary Curriculum Support Programme Cuiditheoirí.

Consulting

2014, March Member of consultancy team from the Alliance for Catholic Education at Notre Dame hired to advise the Archdiocese of Milwaukee about school improvement. My work related specifically to observing mathematics teaching, analysing data on it and writing up recommendations for improving the teaching of mathematics in four schools.

Membership of Professional Committees and Associations

2013-present Member of the Advisory Committee on the National Assessments of English Reading and Mathematics in Ireland

2012 - 2013 Member of Steering Committee to introduce JUMP Maths to Ireland on a pilot basis

2011- present Member of the Department of Education and Skills National Literacy and Numeracy Strategy Implementation Committee

2008 – 2014 Member of the National Council for Curriculum and Assessment Board of Studies for Project Maths

2000 – present Founder member and inaugural chairman (until 2003) of the Primary Teachers' Mathematics Association.

2003 – present Member of American Educational Research Association (AERA)

1993 – 1998 Member of the English (Primary) Sub-Committee of the National Council for Curriculum and Assessment

1991 – 1993 Chairperson and Vice Chairperson of Kilkenny City Branch of the Irish National Teachers' Organisation (INTO). Currently a member of the INTO.

1999 – present Member of Irish Fulbright Alumni Association

2008 – present Registered as a primary teacher with An Comhairle Mhúinteoireachta – The Teaching Council

Other Professional Activities

2010 (22 June) External Examiner for a student's PhD research thesis proposal in St. Patrick's College, Drumcondra, Dublin 9.

2003 – 2010 Marino representative on the B.Ed. Review Committee in Trinity College Dublin.

2010 - present Marino representative on the Associated Colleges Degrees Committee in Trinity College Dublin

Media Appearance/Coverage

2014 Interviewed by David McWilliams on The Pat Kenny Show on *Newstalk* re the joint PME for primary/post primary sectors (10 June).

Interviewed by Claire Noble on News 90 on *Northern Sound* radio re the joint PME for primary/post primary sectors (10 June)

2010 Interview with Mary Wilson, RTE Drivetime, about the launch of *Knowing What Counts: Irish Primary Teachers' Mathematical Knowledge for Teaching* (2 Feb.)

Service

- Reviewer for *Teaching and Teacher Education*, *Research in Mathematics Education*, *Journal of Mathematics Teacher Education*, *ZDM*, *Irish Educational Studies*, *Journal for Research in Mathematics Education*, *Educational Assessment*, *The Elementary School Journal*, *NOMAD*, *Educational Studies in Mathematics*, the *International Journal of Science and Mathematics Education*, *The Mathematics Enthusiast* and the *Asia-Pacific Journal of Teacher Education*.
- Volunteer presenter and producer of programmes including “Inside Education,” (2009-2013) and previously “Into the Net” (2001-2002) and “At the End of the Day”(2003) on special interest radio station, 103.2 Dublin City FM
- Presenter of "Education Matters" on KCLR 96FM (2012-2013)
- Interviewer for Fulbright Commission Scholar competition (January 2010)