

RESUME
January, 2025

Daniel M. Berry

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U. S. Citizen
Israeli Citizen
Canadian Landed Immigrant
Born 1948, Cleveland Heights, Ohio, U.S.A.

CURRENT POSITION

Professor (full), School of Computer Science, University of Waterloo, 1999–present

PREVIOUS POSITIONS

Professor (full, step II), Computer Science Department, University of California at Los Angeles, starting as Assistant Professor and working the way upward, 1972–1990

Professor (full), Computer Science Department, Technion, 1987–2000 (with 1991–1994 in visiting position to allow working half-time at Software Engineering Institute and 1999–2000 on unpaid leave)

Visiting Professor, Computer Systems Group, University of Waterloo 1998–1999

EDUCATION

B.S. Mathematics, Rensselaer Polytechnic Institute, Troy, New York, 1969

Ph.D. Applied Mathematics/Computer Science, Brown University, Providence, Rhode Island, 1974, Dissertation: “On the Design and Specification of the Programming Language Oregano,” Committee: Professor Peter Wegner, Chairperson, Professor Clement McGowan, Professor James Sakoda

PROFESSIONAL GENEALOGIES

Listed in the Mathematics Genealogy Project, <http://genealogy.math.ndsu.nodak.edu/> as
<http://genealogy.math.ndsu.nodak.edu/html/id.phtml?id=14473>

Listed in the Software Engineering Academic Genealogy,
<http://www.cs.washington.edu/homes/taoxie/sefamily.htm>

PROFESSIONAL LICENSES

Professional Engineer (P. Eng.), Ontario, 2009

PROFESSIONAL EXPERIENCE

Computer Scientist, General Electric Research and Development Center, Schenectady, New York, Summers 1970 & 1971; did much of dissertation research there

Instructor of Computer Science, Mathematics Department, Hebrew University, Jerusalem, Israel, 1972

Consultant, Jet Propulsion Laboratory, Pasadena, California, 1978; Did DODI language evaluations and design of modular programming language

Visiting Associate Professor, Computer Science Department, Hebrew University, Jerusalem, Israel, 1978–1979

Visiting Associate Professor, Mathematics Department, Weizmann Institute of Science, Rehovot, Israel, 1978–1979

Consultant, Tadiran Electronics, Holon, Israel, 1979; taught software engineering

Consultant, Israel Aircraft Industries, Ben Gurion Airport, Israel, 1979; taught software engineering and advised on in-house education program

Visiting Researcher, Politecnico di Milano, Milano, Italy, 1979; worked on design of language for real-time distributed systems and taught Ada™

Consultant, Aerospace Corporation, El Segundo, California, 1980; advised on high level language computer architecture design

Consultant, Israel Aircraft Industries, Ben Gurion Airport, Israel, 1980–1982; taught Ada and software engineering

Consultant, Unisys (formerly System Development Corporation and Burroughs), Santa Monica, California, 1980–1987; applying formal verification to data base design and integrity verification and to system security; teaching software engineering, Ada, and verification

Partner and Consultant with consulting firm “Berry Computer Scientists,” 1981–present

Consultant, Burroughs Corporation, Paoli, Pennsylvania, 1981; taught Ada

Consultant, IBM Research Laboratory, San Jose, California, 1982–1987; teaching Ada

Consultant, Mayda Software Engineering, Rehovot, Israel, 1982–1987; advising on program design languages and assisting in the development of software products

Consultant, Technology Transfer Institute, Santa Monica, California, 1982; taught Ada

Consultant, Jet Propulsion Laboratory, Pasadena, California, 1982–1987; teaching Ada and software engineering

Consultant, TRW, Redondo Beach, California, 1983; taught Ada, software engineering, and verification

Consultant, IBM Corporate Technical Institutes, 1983–1987; teaching Ada in on-going Industry Overview Course

Consultant, IBM Scientific Center, Los Angeles, 1983–1984; advising on language design and implementation and on application design and implementation

Consultant, Hughes California Corporation, Los Angeles, 1985; taught Ada

Consultant, IBM General Products Division, Santa Teresa, 1985–1986; taught Compiler Writing

Took course “Computers and the Law” from Prof. David Kay, Computer Scientist and Lawyer, and got an A!

Visiting Scientist, Software Engineering Institute, Carnegie Mellon University, Pittsburgh, PA, 1989; wrote curriculum module and did research on requirements elicitation

Consultant, Twin Sun, Inc., Redondo Beach, California, 1989–1990; advising on computer supported cooperative work and language design

Consultant, Intel (Israel), Ltd., Haifa, Israel, 1990–1994; teaching software engineering and advising on software methods

Member of the Technical Staff, Software Engineering Institute, Carnegie Mellon University, Pittsburgh, PA, 1990–1994

Consultant, ORNET Data Communications Technologies (Israel), Ltd., Carmiel, Israel, 1993–1995; advising on software engineering

Consultant, IIS, Ltd., Haifa, Israel, 1994–1995; teaching software engineering

Visiting Scientist, GMD First, Berlin, Germany, Summers 1995, 1996, and 1997

User-interface and requirement engineering consultant for a large multi-site project in Brazil to develop ARTSWARE, a formally based object-oriented methodology and support environment for the development of real-time systems, 1995–1997

Consultant, Siemens Corporate Research, Princeton, NJ, USA, advising on requirements engineering and teaching of requirements engineering, 2006–2008

ACADEMIC TEACHING EXPERIENCE (See also “PROFESSIONAL EXPERIENCE”)

Taught lower division “Intermediate Programming,” UCLA, 1972–1975

Taught upper division “Programming Languages,” UCLA, 1972–1989

Taught graduate “Operational Semantics,” UCLA, 1972–1987

Taught upper division “Software Engineering,” UCLA, 1974–1987

Taught graduate “High Level Language Computer Architecture,” UCLA, 1978–1987

Taught upper division “Programming Languages,” Technion, 1989–1990

Taught upper division “Introduction to Software Engineering,” Technion, 1991–1995

Taught graduate “Software Requirements Engineering,” CMU, 1990–1992

Coached MSE Studio project related to the course “Software Systems Engineering,” CMU, 1990–1992

Taught graduate seminar “Advanced Topics in Electronic Publishing,” Technion, 1991–1998

Taught graduate seminar “Advanced Topics in Electronic Publishing,” CMU, 1991–1992

Taught graduate seminar “Advanced Topics in Requirements Engineering,” Technion, 1996–1998

Taught upper division “Software Engineering,” Technion, 1995–1996

Taught upper division “Software Engineering Methods,” Technion, 1996–1998

Taught lower division “Software Abstraction and Specification,” Waterloo, 1999–2003

Taught graduate seminar “Advanced Topics in Requirements Engineering,” Waterloo, 1999, 2005, 2010, 2015, 2017, 2019

Taught graduate seminar “Advanced Topics in Electronic Publishing,” Waterloo, 2005, 2008, 2013, 2016, 2018, 2021

Taught upper division “The Social Implications of Computing,” Waterloo, 2007–2010, 2018–2019

Taught upper division “Real-Time Computing,” Waterloo, 2007–2008

Taught upper division “Software Requirements and Specification,” ConGESE, 2001, 2003, 2005, 2008, and 2011

Taught graduate seminar “Advanced Topics in Electronic Publishing,” ConGESE, 2013

Taught upper division “Software Requirements and Specification,” Waterloo, 2000–present

Taught graduate seminar “Advanced Topics in Human Empirical Software Engineering,” Waterloo, 2020

ACADEMIC AWARDS

Pie (Lemon Meringue) in the face by one student (who later became a Ph.D. student of mine) in appreciation for fine teaching of CS20 (Intermediate Programming) at Computer Science Department, UCLA, 1975.

Listed as *Noted Lecturer* by Technion Student Association Faculty Evaluation Booklet, 1993/4 for 1992 teaching

Owner of an Erdős Number of 2, via 2003 co-author Michael M. Krieger, who co-authored a paper in 2023 with Paul Erdős.

AREAS OF EXPERTISE

Programming Language Design, Definition, and Implementation
Compiler-Writing
Software Engineering
Verification
High Level Language Computer Architecture
Ada
Multi-lingual text processing
Device Independent Troff

Software Licensing, Copyrights, Trade-Secrets
Page Description Languages
Fonts for Electronic Publishing
Requirements Engineering
Requirements Elicitation and Analysis
Ambiguity in Natural Language Specifications
Roles of Stakeholders in Requirements Engineering
Creativity in Requirements Engineering
Domain Ignorance in Requirements Engineering
Empirical Software Engineering
Evaluation of Natural-Language Processing Tools for Requirements and Software Engineering

PUBLICATION SERVICE

Have refereed for:

ACM Computing Surveys
ACM Transactions on Office Information Systems
ACM Transactions on Programming Languages and Systems
ACM Transactions on Software Engineering Methods
ACM Transactions on the Web
Annals of Software Engineering
Artificial Intelligence for Engineering Design, Analysis and Manufacturing
Automated Software Engineering
Communications of the ACM
Computational Intelligence
Computer Aided Design
Computer Journal
Electronic Publishing, Origination, Dissemination, and Design
Empirical Software Engineering
Equality, Diversity and Inclusion: An International Journal
Equality, Diversity and Inclusion: An International Journal
IEEE Computer
IEEE Software
IEEE Transactions on Education
IEEE Transactions on Education
IEEE Transactions on Engineering Management
IEEE Transactions on Engineering Management
IEEE Transactions on Software Engineering
IET Software formerly known as *IEE Proceedings Software*
Information Processing Letters
Information and Software Technology
International Journal of Computer and Information Sciences
International Journal of Computer Science and Software Engineering
International Journal of Human-Computer Studies
International Journal of Human-Computer Studies
International Scholarly Research Notices
Journal of Computer Languages
Journal of Computer Science and Technology
Journal of Information Sciences
Journal of Management Information Systems
Journal of Research and Practice in Information Technology
Journal of Software and System Modeling

Journal of Software: Evolution and Process
Journal of Systems Engineering
Journal of Systems and Software
Journal of Universal Computer Science
Journal of the Association for Information Systems
Journal of the Brazilian Computer Society
Journal of Software Engineering Research and Development
Journal on Software Tools for Technology Transfer
Open Software Engineering Journal
Public Library of Science – ONE
Requirements Engineering Journal
Science of Computer Programming
Software — Practice & Experience
Software Quality Journal

On program committees for:

1989–1991, 2001, and 2016 International Conference on Software Engineering (ICSE)
 1989 International Conference on Computer Processing of Chinese and Oriental Languages
 1989 Testing and Verification Conference (TAV)
 1990–2001 (conference was not held in 1993) Conference on Software Engineering Education and Training (CSEE&T)
 1991 and 1993 International Workshop on Software Specification and Design (IWSSD)
 1993, 1995, 1997, 2002, 2006, and 2009 Next Generation Information Technology Symposium (NGITS)
 1993–2018 Brazilian Symposium on Software Engineering (CBSOFT-SBES)
 2015 JOT-CIBSE15 (CBSOFT-SBES) Best papers
 2015 Brazilian Symposium on Software Engineering (CBSOFT-SBES) Insightful Ideas track
 1994 Symposium on Assessment of Quality Software Development Tools
 1994 International Conference of the Chilean Computer Science Society
 1994 ICSE Software Engineering Education Workshop (I-SEE)
 1994 Monterey Workshop on Formal Methods in Software Development
 1996 International Conference on Data Engineering (ICDE)
 1997, 1999, and 2001 IEEE International Symposium on Requirements Engineering (ISRE)
 1996 International Symposium on Interoperability of Software Systems (CWI's 50th anniversary)
 1998 and 1999 International Conference on Engineering of Computer-Based Systems (ECBS)
 1998 Raster Imaging and Digital Typography (RIDT)
 1998–2003 Automated Software Engineering (ASE)
 1999 Hawaii International Conference on Computing Systems (HICCS), scenarios session
 1999–2025 International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ)
 1999 and 2000 International Workshop on the Requirements Engineering Process (REP)
 2000 International Conference on Software: Theory and Practice (at IFIP 2000)
 2001 and 2004 International Conference on Information Systems Technology and its Applications (ISTA)
 2001 and 2003 From Software Requirements to Architectures (STRAW)
 2002–2018, 2021–2025 International Requirements Engineering Conference (RE)
 2015–2017, 2020 International Requirements Engineering Conference (RE) NEXT! Track
 2019 International Requirements Engineering Conference (RE) Journal First Track
 2017 International Requirements Engineering Conference (RE) 25th Anniversary Lecture Selection Committee.
 2002 and 2003 International Conference on Advanced Information Systems Engineering (CAiSE)
 2002 First International Conference on Computing in an Imperfect World (SOFT-WARE)
 2002 Radical Innovations of Software and Systems Engineering in the Future (RISSEF)
 2002 Workshop on the Relation of Agile Development Methods with RE and on Time-Constrained RE (T-

CRE)
 2003, 2005, 2007, and 2010 IEEE Conference on Software—Science, Technology, and Engineering (SwSTE)
 2003–2005 Workshop on Comparative Evaluation in Requirements Engineering (CERE)
 2003–2005, 2007, and 2011 Workshop on Requirements for High Assurance Systems (RHAS)
 2003 Monterey Workshop: Software Engineering for Embedded Systems: From Requirements to Implementation (SEES:R→I)
 2004 IT Systems Accessibility Mini-Track for AMCIS 2004
 2004 and 2005 Workshop on Requirements Engineering Patterns (REP)
 2004 and 2007 Workshops for the Brazilian Symposium on Databases (SBBD) and Brazilian Symposium on Software Engineering (SBES)
 2005 Experience Reports Track of International Conference on Software Engineering (ICSE)
 2005 Information Systems Accessibility Minitrack, part of the Internet and Digital Economy Track at the Thirty-Eighth Annual Hawai'i International Conference on System Sciences (HICSS)
 2005–2019 Workshop em Engenharia de Requisitos (WER)
 2023 Journal First Track of Workshop em Engenharia de Requisitos (WER)
 2022 Requirements Engineering Track (RET) of Iberoamerican Conference on Software Engineering (CiBSE)
 2005 Workshop on Reverse Engineering Requirements (RER)
 2006 Jornadas de Atualização em Informática (JAI)
 2006 and 2008 Workshop on The Role of Abstraction in Software Engineering: Organizational, Managerial and Cognitive Perspectives (ROA)
 2006–2008 International Workshop on Predictor Models in Software Engineering (PROMISE)
 2006–2010 International Workshop on Requirements Engineering Visualization (REV)
 2006 Australian Workshop on Requirements Engineering (AWRE)
 2007 ICSE Portraits in Practice Track, Lead Reviewer
 2007 Monterey Workshop on Innovations for Requirements Analysis: From Stateholders' Needs to Formal Designs (IRA: FSN2FD)
 2007, 2008 (invited but did not serve during recovery from eye surgery), 2012, and 2013 Workshop on Requirements, Intentions and Goals in Conceptual Modeling (RIGiM)
 2007 International Workshop on Aligning Web Systems and Organisation Requirements (AWSOR)
 2007 Tutorials Selection Committee for RE Conferences
 2007 International Workshop on Situational Requirements Engineering Processes (SREP)
 2008–2025 ACM Symposium on Applied Computing (SAC), Requirements Engineering Track
 2007 First International Workshop on Computer-Supported Distributed Requirements Engineering (CSDRE)
 2008 International Workshop on Leadership and Management in Software Architecture (LMSA)
 2008 and 2009 IEEE International Conference on Engineering of Complex Computer Systems (ICECCS)
 2008 Workshop on Exception Handling in Software Engineering at FSE 16
 2008–2011 International Workshop on RE Education and Training (REET)
 2008–2017 International Workshop on RE and the Law (RELAW)
 2008 International Conference on Information Systems (invited but did not serve during recovery from eye surgery)
 2008 IEEE International Symposium on Leveraging Applications of Formal Methods, Verification, and Validation (ISOLA)
 2008 and 2012 Workshop on Expression Handling (WEH)
 2009 Leadership and Management in Software Architecture (LMSA)
 2009 Rhetoric in Requirements Engineering (RHET)
 2010, 2019, 2023, 2024 Workshops Selection Committee at International Requirements Engineering Conference (RE)
 2010 Workshop on Software Development Governance (SDG)
 2010 Brazilian Conference on Software: Theory and Practice? (CBSOft) Tutorials Committee

2010, 2021 QUATIC Thematic Track on Quality in Requirements Engineering.
 2010 Mediterranean Conference on Information Systems (MCIS)
 2011 African Conference on Software Engineering and Applied Computing (ACSEAC)
 2011 Workshop on Empirical Research in Requirements Engineering: Challenges and Solutions (EPICAL)
 2011 and 2012 Workshop on Requirements at Run Time (RRT)
 2011–2018, 2023–2024 International Workshop on Empirical Requirements Engineering (EmpiRE)
 2013–2015 International Workshop on Empirical Requirements Engineering at the RE Conference (EmpiREatRE)
 2011–2017, 2021–2025 Workshop on Creativity in Requirements Engineering (CreaRE)
 2012 International Workshop on Software Engineering Education based on Real-World Experiences (EduRex 2012)
 2012 Workshop on Requirements Engineering for Systems and Systems-of-Systems (RESS)
 2012, 2013, 2013 (yes, twice in one year), and 2014 International Workshop on the Twin Peaks of Requirements and Architecture (TwinPeaks)
 2013–2019 Workshop in Cognitive Aspects of Information Systems Engineering (COGNISE)
 2013–2018 International Workshop on Conducting Empirical Studies in Industry (CESI)
 2013 Engenharia de Requisitos @ Brasil (ER@BR)
 2014 Requirements Engineering Efficiency Workshop (REEW)
 2014 Empirical Track of the International Working Conference on Requirements Engineering: Foundation for Software Quality (ET@REFSQ)
 2015 and 2016 Research Methods Track of the International Working Conference on Requirements Engineering: Foundation for Software Quality (RM@REFSQ)
 2015 and 2017 International Workshop on Crowd-Based Requirements Engineering (CrowdRE)
 2014 Workshop on Requirements Engineering for Self-adaptive and Autonomous Systems (RESA)
 2015 Doctoral Symposium of the Ibero-American Conference on Software Engineering
 2014 and 2015 International Workshop on the Interrelations between Requirements Engineering & Business Process Management (REBPM)
 2015–2017 Evolving Security and Privacy Requirements Engineering (ESPRE)
 2015 IEEE International Conference on Computational Science and Engineering (CSE)
 2016 and 2017 Workshop on Collaborative Aspects of Formal Methods (COLAFORM) at ENASE
 2016 Workshop on Human-Oriented Formal Methods (HOFM)
 2017 and 2018 Live Study Session of the International Working Conference on Requirements Engineering: Foundation for Software Quality (RM@REFSQ)
 2018 Ibero-American Conference on Software Engineering (CibSE)
 2018–2025 Natural-Language Processing for Requirements Engineering (NLP4RE)
 2018 Workshop on Requirements for the Internet of Things (RIOT)
 2018–2020, 2022–2024 Workshop on Artificial Intelligence for Requirements Engineering (AIRE)
 2018 Workshop on Facilitating Inclusive Requirements Engineering (FIRE)
 2019 Workshop on History of Formal Methods (HFM2019)
 2018, 2019 (REFSQ), 2019 (RE), 2020, 2021 International Workshop on Learning from Other Disciplines for RE (D4RE)
 2019 Journal First Track for International Requirements Engineering Conference (JF@RE)
 2021–2024 International Workshop on Requirements Engineering for Artificial Intelligence (RE4AI)
 2021–2023 Evaluation and Assessment in Software Engineering (EASE)
 2023 International Workshop on Requirements Engineering Frameworks at REFSQ (REframe/REFSQ)
 2023 International Workshop on Requirements Engineering Frameworks at RE (REframe/RE)
 2023 Journal First Track at Workshop em Engenharia de Requisitos (WER-JIT)
 2025 Multi-disciplinary, Open, and IntegRatEd Requirements Engineering Workshop (MO2RE)
 2025 Master’s and Doctoral at Workshop em Engenharia de Requisitos (WER-MDT)
 2025 Requirements Engineering for Accountable and Conscious Human-centered AI (REACH-AI)

External Reviewer for:

2006 International Conference on Software Engineering (ICSE)

Conference Chair for:

1991 Fifth Conference on Software Engineering Education and Training (CSEE&T)

Program Chair or Co-Chair for:

I and XII International Conference of the Chilean Computer Science Society

1998 IEEE International Conference on Requirements Engineering (ICRE '98)

2010 Mediterranean Conference on Information Systems (MCIS) RE Track

2010 Requirements @ Run Time Workshop (RE@RT)

2011 International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ)

2012 and 2013 Empirical Track of International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ)

2012 and 2014 IEEE CS International Conference on Software Science, Technology, and Engineering (SwSTE)

Assistant Program Chair in charge of papers submitted by members of the organizing committee, to conduct reviews kept anonymous from the authors, for:

2006 Next Generation Information Technology Symposium (NGITS)

On steering committees for:

IEEE International Conference on Requirements Engineering (ICRE) 1998–2002

IEEE International Symposium on Requirements Engineering (ISRE) 2000–2002

IEEE International Requirements Engineering Conference (RE) 2002–2004

IEEE International Conference on Software-Science, Technology & Engineering (SwSTE) 2004–2006

International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ) 2010–2016

Workshop em Engenharia de Requisitos (WER) 2023–2023

Webmaster for International Requirements Engineering Conference (RE) website, <http://www.requirements-engineering.org/>, 2000–present

On organizing committee for:

2003 From Software Requirements to Architectures (STRAW'03)

2010 Advanced Software Engineering and Intelligent System Application Research

2010 International Workshop on Requirements@Run-Time (RE@RT)

2013 IEEE International Requirements Engineering Conference (RE) as paper writing mentor for RE@21 (Historical Perspectives) Track

2016 and 2017 IEEE International Requirements Engineering Conference (RE) as paper writing mentoring co-chair

2019 International Conference on Software Engineering (ICSE)

2019 IEEE International Requirements Engineering Conference (RE)

Tutorial Chair for:

2000 IEEE International Conference on Requirements Engineering (ICRE'2000) 1999–2000

2005 International Requirements Engineering Conference (RE) 2004–2005

2009 International Requirements Engineering Conference (RE) 2008–2009

Publicity Chair for:

2002 and 2003 IEEE International Requirements Engineering Conference (RE) 2001–2003

Doctoral Symposium Chair or Co-Chair for:

2003 International Requirements Engineering Conference (RE) 2002–2003
2007 International Requirements Engineering Conference (RE) 2006–2007
2014 Requirements Engineering: Foundation for Software Quality (REFSQ) 2013–2014
2015 Requirements Engineering: Foundation for Software Quality (REFSQ) 2014–2015
2019 International Requirements Engineering Conference (RE) 2018–2019

Member of Panel of Reviewers for Student Research Competition at 15th ACM SIGACCESS International Conference on Computers and Accessibility (ASSETS 2013) 2013–2013

Chair for Award for Most Influential Paper From 10 Years Earlier:

2003 and 2004 IEEE International Requirements Engineering Conference (RE) 2003–2004

Reviewer for:

ACM Computing Reviews

On Editorial Boards for:

Requirements Engineering Journal (REJ), 1995–present
IEEE Transactions on Software Engineering (TSE), 1997–2001
Journal of the Brazilian Computer Society (JBACS), 2003–2010
Empirical Software Engineering (EMSE), 2005–2019
Journal of Software Engineering and Applications (JSEA), 2007–2010
Science of Computer Programming (SCP), 2008–2020
The Open Software Engineering Journal (TOSEJ), 2009–2014
Journal of Software Engineering Research and Development (JSERD), 2012–2020

On Senior or Strategic Advisory Boards for:

Empirical Software Engineering (EMSE), 2020–present
Science of Computer Programming (SCP), 2020–present

Guest Co-Editor for:

Special Issue of *IEEE Software*, March 1998, on requirements engineering

On Doctoral Symposium review board for:

RENOIR Research Network Research Training Mini-Workshop, Dortmund, January 1998
ISRE Ph.D. Consortium, Limerick, Ireland, June 1999
ISRE Ph.D. Consortium, Toronto, ON, Canada, August 2001
RE'03 Doctoral Symposium, Monterey, CA, USA, September 2003
RE'04 Doctoral Symposium, Kyoto, Japan, September 2004
RE'05 Doctoral Symposium, Paris, France, August 2005
ESEC/FSE'05 Doctoral Symposium, Lisbon, Portugal, September 2005
RE'07 Doctoral Symposium, Delhi, India, October 2007
RE'08 Doctoral Symposium, Barcelona, Spain, September 2008
RE'09 Doctoral Symposium, Atlanta, GA, USA, September 2009
RE'10 Doctoral Symposium, Sydney, NSW, Australia, October 2010
REFSQ'11 Doctoral Symposium, Essen, Germany, March 2011
RE'11 Doctoral Symposium, Trento, Italy, August 2011
REFSQ'12 Doctoral Symposium, Essen, Germany, March 2012
RE'12 Doctoral Symposium, Chicago, IL, USA, September 2012
REFSQ'13 Doctoral Symposium, Essen, Germany, March 2013
RE'14 Doctoral Symposium, Karlskrona, Sweden, August 2014
REFSQ'17 Doctoral Symposium, Essen, Germany, February 2017

RE'17 Doctoral Symposium, Lisbon, Portugal, September 2017
REFSQ'18 Doctoral Symposium, Utrecht, Netherlands, March 2018
RE'18 Doctoral Symposium, Banff, Alberta, Canada, August 2018

DEPARTMENTAL AND UNIVERSITY SERVICE

Member of the Executive Board of the University of Waterloo Software Engineering Degree Program, University of Waterloo, 2000–2008 and 2011

Member of the Operations Committee of the University of Waterloo Software Engineering Degree Program, University of Waterloo, 2000–2005

Member of Computing Advisory Committee, Faculty of Mathematics, University of Waterloo, 2001–2002

Member of the Recruiting Committee of the University of Waterloo Software Engineering Degree Program, University of Waterloo, 2001–2005

Member of Departmental Advisory Committee on Appointments (DACA), Computer Science Department, University of Waterloo, 2001–2002

Member of School Advisory Committee on Appointments (SACA), School of Computer Science, University of Waterloo, 2002–2005 and 2009–2010

Chair of the Infrastructure Committee, Computer Science Department, University of Waterloo, 2001–2002

Member of Computer Science Computing Facility Committee, 2002–2005

Member of Computing Advisory Committee, Faculty of Mathematics, 2003

Member of Recruiting Committee for Faculty of Mathematics Software Security Position, 2004–2005

Supervision of Coop Students, 2003

Member of Women in Computer Science Committee, 2007–2011, 2017–2019

Member of the Computer Science Computing Facility Advisory Committee, 2008

Member of University-Wide Ph.D. Defense Chair Committee, 2009–2019

Assisting Director in Reviewing NSERC Proposals when needed, 2010–present

Member of the Curriculum Committee of the University of Waterloo Software Engineering Degree Program, University of Waterloo, 2007–2012, 2016–2023

Member of School Tenure & Promotions Committee (T&PC), 2012–2014, 2016–2017, 2019–2020

Member of OGS Scholarship Applications Selection Panel for province of Ontario, 2002–2003 and 2009–2010

Member of School EDI Committee 2029–2025

Chair of School EDI Committee 2029–2025

PUBLIC SERVICE

Member of Scientific Board of the Global Information Networking Institute of Dalhousie University, Halifax, NS, Canada, 1998–2004

Participated in Debate on Whether Hearing-Impaired Children Should be Taught Signing, UCLA, 4 April 2000

Member of the Software Engineering Program Advisory Board at the Naval Postgraduate School, Monterey, CA, USA, 2001–2006

Public service consulting with In-Q-Tel, Arlington, VA, U.S.A., July, 2002

Gave lecture on commentary of Genesis at Temple Shalom, Cedars, Waterloo, ON, Canada, 7 December 2002

Member of PhD Thesis External Review Committee and Advisory Board of the ICT Graduate School of the University of Trento, Trento, Italy, 2004–2014

Participated in a panel discussion on what it's like to be deaf or hard of hearing in the academic world, Office for Students with Disabilities, University of Waterloo, Waterloo, ON, 12 May 2004

Gave lecture titled “Is Emotion Relevant in Requirements Engineering” at Canadian Undergraduate Software Engineering Conference (CUSEC), Ottawa, ON, Canada, 16 January 2004.

Reviewing articles on requirements engineering for “Build Security In” Web site, <https://buildsecurityin.us-cert.gov/daisy/bsi/articles/best-practices/requirements.html>, 2006–present

Gave lecture titled “Ambiguity in Natural Language Requirements Specification” at Canadian Undergraduate Software Engineering Conference (CUSEC), Montreal, QC, Canada, 23 January 2010.

Temple Shalom at Cedars in Waterloo Activities:

E-Communications Director: 2004–2018

Newsletter Editor: 2005–2018

Ritual Committee Chair: 2007–2019

Member of Board of Directors: 2007–2023

Represented Judaism and gave lectures at the 27th Annual World Religions Conference, organized by Ahmadiyya Movement in Islam of Canada, Humanities Theatre, University of Waterloo, Waterloo, ON, CA, 24 November 2007.

Presented the “The Jewish Perspective on the Meaning of the Exodus from Egypt Today” at the invitation of Rev. Scott Brubaker-Zehr at Rockway Mennonite Church, Sunday 16 October 2011

HONORS

ACM Lectureship Program 1973–1974

IEEE Computer Society Distinguished Visitors Program as a speaker 2001–2003

Paper titled “The Inevitable Pain of Software Development, Including of Extreme Programming, Caused by Requirements Volatility” honored as one of three best papers at the Workshop on Time-Constrained Requirements Engineering, 9 September 2002, Essen, Germany; recommended for publication in *Requirements Engineering Journal*; withdrawn due to disagreement with an editor-in-chief concerning the form of paper.

Paper titled “Concept Identification in Object-Oriented Domain Analysis: Why Some Students Just Don’t Get It” with D. Svetinovic and M. Godfrey honored as one of five best research papers at the 2005 International Requirements Engineering Conference (RE’05).

Invited Keynote Lecture, “Ambiguity in Requirements Specification,” SBW05.3—SEMAG Bimonthly Workshop, 16 June 2005, Departamento Sistemas de Informação, Universidade do Minho, Guimarães, Portugal

Invited speaker in 2005/2006 Dean’s Lecture Series at College of Computing and Information Sciences, Rochester Institute of Technology, 17 March 2006, with the talk “Formal Methods, the Very Idea, Some Thoughts.”

Invited Keynote Lecture, “Requirements Engineering Lessons from House Building,” Workshop em Engenharia de Requisitos (WER), 17 May 2007, Toronto, ON, Canada

Invited Keynote Lecture, “Ambiguity in Natural Language Requirements Documents,” 14th Monterey Workshop on Innovations for Requirements Analysis: From Stakeholder Needs to Formal Design, 10–14 September 2007, Monterey, CA, USA

Invited Keynote Lecture, “Ambiguity in Natural Language Requirements Documents,” Business Rules Forum, 24 October 2007, Orlando, FL, USA

Invited Keynote Lecture, “In Requirements Engineering (RE), Everything is an Aspect,” Workshop on Early Aspects at ICSE 2008, 12 May 2008, Leipzig, Germany

Paper titled “Ethics Test Results Before and After Ethics Training: A Disturbing Experience” with B. Berenbach won Best Paper Award at the IEEE International Conference on Software — Science, Technology & Engineering (SwSTE’2010)

Invited Keynote Lecture, “One Requirements Engineer’s View of Conceptual Modeling,” Software Knowledge Workshop (SKY) at SwSTE’2010, 16 June 2010, Herzliya, Israel

Invited Keynote Lecture, “Requirements for Maintaining Web Access for Hearing-Impaired Individuals: A Ten-Year Perspective,” 13th IEEE Symposium on Web Systems Evolution, 30 September 2011

Invited Keynote Lecture, “Are Creativity, HCI, and Emotions Parts of RE?,” 2012 Workshop on Creativity in Requirements Engineering (CreaRE), 19 March 2012

Invited Keynote Lecture, “The Impact of Domain Knowledge on the Effectiveness of Requirements Idea Generation during Requirements Elicitation,” 2013 International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE) 17 June 2013

Invited Keynote Lecture, “The Impact of Domain Knowledge on the Effectiveness of Requirements Idea Generation during Requirements Elicitation,” Requirements Engineering Forum, Swiss Association for Quality, Zuerich, Switzerland, 12 November 2013

Invited Keynote Lecture, “Requirements for Requirements Engineering Tools that Require Understanding Requirement Semantics — Why Such Tools Should be Clerical and not NLP-Based,” 2017 IEEE 11th International Conference on Semantic Computing (ICSC), 20 January 2017

Invited Keynote Lecture, “The Prehistory and History of Requirements Engineering as Seen by Me,” RE@40 Forty Years of Requirements Engineering — Looking Forward and Looking Back, 24 April 2017

Invited Keynote Lecture, “Evaluation of NLP Tools for Hairy RE Tasks,” 1st Workshop on Natural Language

Processing for Requirements Engineering, REFSQ'18, 19 March 2018

Invited Keynote Lecture, “The Requirements Engineering Reference Model: A Fundamental Impediment to Using Formal Methods in Software Systems Development,” FORMAl REQuirements Workshop, RE'2020, 23 September 2019

Invited Keynote Lecture, “The Tenth Anniversary of the CreaRE Workshops: A Look Back and a Look Forward,” Ninth International Workshop on Creativity in Requirements Engineering (CreaRE), REFSQ'20, 23 June 2020

Invited Keynote Lecture, “Lessons Learned from and for Requirements Engineering and Building Construction: A Case Study of Requirements Engineering for a Synagogue Kitchen with Use Cases and Scenarios,” D4RE Workshop, RE'2020, 31 August 2020

Ten-Year Most-Influential-Paper (MIP) Award, and invited perspectives lecture, at the 2023 Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ) for the paper:

Tjong, S.F. and Berry, D.M., “The Design of SREE — A Prototype Potential Ambiguity Finder for Requirements Specifications and Lessons Learned,” *Proceedings of the 2013 Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ)* (MIP Award and Invited Lecture)

Invited Keynote Lecture, “A History of RE as Seen by a Still-Active Alter Kaker Who Was in It From Before the Beginning,” 2nd Workshop on Multi-disciplinary, Open, and integRatEd Requirements Engineering (MO2RE), 26 April 2025

MEMBERSHIPS

ACM member since 1967

IEEE Computer Society member since 1980

IFIP WG 2.9, Requirements Engineering, charter member since 1995

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3. Berry, D.M. “Program Proofs Made Practical,” *Proc. of II Seminario Internacional de Invierno sobre Ingenieria de Software*, pp. 1–70, Santiago de Chile, July 1979 (Invited Tutorial Paper)
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5. Berry, D.M. “Program Proofs Produced Practically,” *Tutorial Notes of 5th International Conference on Software Engineering*, pp. 1–70, San Diego, CA, March 1981 (Invited Tutorial Paper)
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8. Berry, D.M. “Towards an Environment for Gathering Requirements,” The Third Israeli Conference on Computer Systems and Software Engineering, Tel Aviv, Israel, June, 1988. (Invited Lecture)
9. Berry, D.M. “The Academic Legitimacy of the Software Engineering Discipline,” Seventh Brazilian Symposium on Software Engineering, Rio de Janeiro, Brazil, October, 1993. (Invited Lecture)
10. Berry, D.M. “The Requirements Iceberg and Various Icepicks Chipping at It,” *Achieving Quality Software IV*, San Diego, CA, January, 1994. (Invited Lecture)
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 16. Berry, D.M., “Issues in Computerization of Hebrew,” First International Conference on Future and Communication, Technion City, Haifa, Israel, May, 1995 (Invited Lecture)
 17. Berry, D.M., “Use of Dynamic PostScript Fonts to Implement Letter Stretching of Arabic and Persian and Slanted Baseline Writing of Persian,” Schloß Dagstuhl Seminar on Document Processing, an attendance-by-invitation-only, limited-number-of-participants seminar, Wadern, Germany, 16–20 October, 1995 (Invited Lecture)
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31. Berry, D.M., “Formal Methods, the Very Idea, Some Thoughts,” College of Computing and Information Sciences, Rochester Institute of Technology, 17 March 2006, (Invited Speaker at Dean’s Distinguished Lecture Series)
32. Berry, D.M., “Text Formatting,” *Encyclopedia of Language and Linguistics*, Second Edition, Elsevier: Oxford UK, Article 0984, 2006 (Invited Encyclopedia Article)
33. Berry, D.M., “On the Maintenance Costs of Formal Software Requirements Specifications Written in the Software Cost Reduction and in the Real-Time Unified Modeling Language Notations,” work by Irwin Kwan, supervised by Berry and Atlee, Schloß Dagstuhl Seminar on Rigorous Methods for Software Construction and Analysis, an attendance-by-invitation-only, limited-number-of-participants seminar, Wadern, Germany, 7–12 May 2006 (Invited Lecture)
34. Berry, D.M., Invited panelist on panel titled, “Perspectives of Requirements Engineering in the Industry,” Workshop em Engenharia de Requisitos, 18 May 2007, Toronto, ON, Canada (Invited Panel Presentation)
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40. Berry, D.M. “RE for AI: A Hot Topic as Viewed by an RE Alter Kaker,” *The 4th International Workshop on Requirements Engineering for Artificial Intelligence (RE4AI)*, 17 April 2023 (Invited Lecture)
41. Berry, D.M., “Unpanel: How useful are formal methods in requirements engineering?” IEEE International Requirements Engineering Conference (RE), 2024 (Invited Panel)
42. Berry, D.M., “A History of RE as Seen by a Still-Active Alter Kaker Who Was in It From Before the Beginning,” *2nd Workshop on Multi-disciplinary, Open, and integRatEd Requirements Engineering (MO2RE)*, 26 April 2025 (Invited Keynote and Abstract)

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43. Denger, Christian, "High Quality Requirements Specifications for Embedded Systems through Authoring Rules and Language Patterns," Co-advised, 2002 (Universität Kaiserslautern)
44. Ou, Lihua (Lizzy), "WD-pic, A New Paradigm for Picture Drawing Programs and its Development as a

- Case Study of the Use of its User's Manual as its Specification," 2002 (Waterloo)
45. Fainchtein, Igor, "Requirements Specification for a Large-Scale Telephony-Based Natural Language Speech Recognition System," 2002 (Waterloo)
 46. Kwan, Irwin, "On the Maintenance Costs of Formal Software Requirements Specifications Written in the Software Cost Reduction and in the Real-Time Unified Modeling Language Notations," Co-advised, 2005 (Waterloo)
 47. Chen, Hsing-Yu, "Analysis of Software Configuration Management," 2007 (Waterloo)
 48. Yu, Colin, "Field Based Development: Case Studies of IBM Product Development," 2007 (Waterloo)
 49. McDonald, Keith, "Combining Processor-Sharing and First-Come-First-Served Queueing Disciplines Using Estimated Job Size," Co-advised, 2007 (Waterloo)
 50. So, Joel, "Autonomous Dynamic Workflow: Explicating the Problem Space and Designing a Viable Solution," Co-advised, 2007 (Waterloo)
 51. Chodos, David, "Creating a Web-based Statistical Tool," Co-advised, 2007 (Waterloo)
 52. Mohsen, Shahab, "The Problem of Stretching in Persian Calligraphy and a New Type 3 PostScript Nastaliq Font," 2009 (Waterloo)
 53. Weber, Janna-Lynn, "Privacy and Security Attitudes, Beliefs and Behaviours: Informing Future Tool Design," Co-advised, 2010 (Waterloo)
 54. Isaacs, Daniel, "Developers Like Requirements, Project Managers Don't," 2010 (Waterloo)
 55. Mehrotra, Gaurav, "Role of Domain Ignorance in Software Development," 2011 (Waterloo)
 56. Mak, Andrew, "Agile Requirements: A Case Study of the Agile Practices in the OSGi Applications Tools Development Team," 2011 (Waterloo)
 57. Werner, Colin, "An Industrial Case Study of a Very Large Organization," 2011 (Waterloo)
 58. Ellis, Keith, "Quantifying the Impact of Requirements Definition and Management Process Maturity on Project Outcome in Business Application Development," Co-advised, 2011 (Lancaster University, UK)
 59. Dembla, Shivam, "The Effect of Several Tradeoffs in the Implementation of Large Displays on the Performance of the Users of the Displays," 2015 (Waterloo)
 60. Lan, Xiao Ye, "An Experimental Study towards Achieving 100% Recall of Synonyms in Software Requirements Documents with Selected Methods," 2015 (Waterloo)
 61. Pham, Andrew, "Requirements Engineering by Evolutionary Prototyping: A Case for Using Prototypes to Develop Quality Software," 2018 (Waterloo)
 62. Bai, Yilun, "Case Study on University of Waterloo's Quest – A Requirement Engineering and User Experience Investigation and Lessons Learned Along the Way," 2020 (Waterloo)
 63. Pawelczyk, Alex, "Investigating the Effectiveness of Pair Programming in Industrial Domains: A

Systematic Literature Review,” 2020 (Waterloo)

In addition there are another approximately 30 students at UCLA who got Master’s Degrees by taking a Comprehensive Exam which I supervised. I have no record of their names.

Current Doctoral Students

1. Wang, YeTian (Waterloo)
2. Bonilla, Belen (Waterloo)

Current Master’s Students

RESEARCH

Grants and Projects

Grants for which I was Co-Principal Investigator

Key: Place, Agencies, Amount, Title of Project, Principal Investigator, Date, My Position and Duties

1. UCLA, U.S. Atomic Energy Commission Grant, US\$459,342, “Methodology for the Synthesis of Information Processing Systems,” Estrin, G., 1973, Researcher and Helping to prepare renewal proposals and final reports
2. UCLA, U.S. National Science Foundation Grant, US\$512,600, “Modelling Measurement of Computer Systems,” Estrin, G., 1974, Researcher and Helping to prepare renewal proposals and final reports
3. UCLA, U.S. Energy Research and Development Administration Grant, US\$380,000, “Methodology for the Synthesis of Information Processing Systems,” Estrin, G., 1975, Researcher and Helping to prepare renewal proposals and final reports
4. UCLA, U.S. Energy Research and Development Administration Grant, US\$300,000, “Methodology for the Synthesis of Information Processing Systems,” Estrin, G., 1976, Researcher and Helping to prepare renewal proposals and final reports
5. UCLA, U.S. Dept. of Energy Grant, US\$330,000, “Methodology for the Synthesis of Information Processing Systems,” Estrin, G., 1977, Researcher and Helping to prepare renewal proposals and final reports
6. UCLA, U.S. National Science Foundation Grant, US\$160,000, “Computer Language Design: Methodology Measurement,” Estrin, G., 1977, Researcher and Helping to prepare renewal proposals and final reports
7. UCLA, U.S. Dept. of Energy Grant, US\$275,000, “Methodology for the Synthesis of Information Processing Systems,” Estrin, G., 1979, Researcher and Helping to prepare renewal proposals and final reports
8. UCLA, U.S. Dept. of Energy Grant, US\$250,000, “Methodology for the Synthesis of Information Processing Systems,” Estrin, G., 1980, Researcher and Helping to prepare renewal proposals and final reports
9. UCLA, U.S. Dept. of Energy Grant, US\$125,000, “Methodology for the Synthesis of Information Processing Systems,” Estrin, G., 1982, Researcher and Helping to prepare renewal proposals and final reports
10. UCLA, U.S. Dept. of Energy Grant, US\$250,000, “Methodology for the Synthesis of Information

- Processing Systems,” Estrin, G., 1983, Researcher and Helping to prepare renewal proposals and final reports
11. UCLA, U.S. Dept. of Energy Grant, US\$125,000, “Methodology for the Synthesis of Information Processing Systems,” Estrin, G., 1983, Researcher and Helping to prepare renewal proposals and final reports
 12. UCLA, State of California Micro, Hughes Aircraft Corp., and SDC — A Burroughs Company, US\$100,000, “Computer Supported Design Using SARA,” Estrin, G., 1983 Researcher, Helping to prepare renewal proposals and final reports, and Acting Principal Investigator during Estrin’s Leave
 13. UCLA, State of California Micro, SDC — A Burroughs Company, and NCR Corp., US\$100,000, “Computer Supported Design Using SARA,” Estrin, G., 1984, Researcher, Helping to prepare renewal proposals and final reports, and Acting Principal Investigator during Estrin’s Leave
 14. UCLA, State of California Micro, SDC — A Burroughs Company, and NCR Corp., US\$90,000, “Computer Supported Design of Concurrent Digital Systems Using IDEAS,” Estrin, G., 1985, Researcher and Helping to prepare renewal proposals and final reports
 15. UCLA, State of California Micro, SDC — A Burroughs Company, and NCR Corp., US\$90,000, “Automating Design Cooperation,” Estrin, G., 1986, Researcher and Helping to prepare renewal proposals and final reports
 16. University of Waterloo, Canadian NSERC, CD\$474,000, “Prophylactic Program Design: an Approach to Next-Generation Legacy Web-Based Software Applications,” Cowan, D.D., 2001–2004
 17. University of Waterloo, Canadian NSERC Industrial Research Chair, CD\$2,459,425, “Requirements Engineering of Service-Oriented Software Systems,” Lebahn, G., 2008–2013, Co-PI

Grants for which I was Principal Investigator

Key: Place, Agencies, Amount, Title of Project, Principal Investigator, Date

1. UCLA, State of California Micro, SDC — A Burroughs Company, US\$40,000, “Studies in the Combination of Ina Jo and Ada,” Berry, D.M., 1985
2. University of Waterloo, Start Up Grant, CD\$30,000, “Requirements Engineering,” Berry, D.M., 1999–2000
3. University of Waterloo, Canadian NSERC Discovery Grant, CD\$116,000, “Requirements Engineering,” Berry, D.M., 2000–2003
4. University of Waterloo, Canadian NSERC Discovery Grant, CD\$173,500, “Requirements Engineering,” Berry, D.M., 2004–2008
5. University of Waterloo, Canadian NSERC Discovery Grant, CD\$95,000, “Requirements Engineering,” Berry, D.M., 2009–2016
6. University of Waterloo, Canadian NSERC–Scotia Bank Industrial Research Chair, CD\$1,687,300 (My share of co-chair), “Requirements Engineering of Service-Oriented Software Systems,” Berry, D.M., 2008–2013
7. University of Waterloo, Canadian NSERC Discovery Grant, CD\$174,000, “Requirements Engineering,”

Berry, D.M., 2016–2023

8. University of Waterloo, Canadian NSERC Discovery Grant, CD\$180,000, “Effects of Scope Determining and Scope Determined Requirements on the Software Development Lifecycle,” Berry, D.M., 2023–2028

Other Projects in Which I Have Participated

Key: Place, Title of Project, Principal Investigator, Date, My Position and Duties

1. SDC — A Burroughs Company, “Enhancement of Formal Development Method Tools,” Deborah Cooper, 1985, Researcher
2. Software Engineering Institute, Carnegie Mellon University, “ROSSET, an Environment for Elicitation and Analysis of Requirements,” Scott Stevens and Len Bass, 1990-1990, Researcher
3. Software Engineering Institute, Carnegie Mellon University, “Requirements Engineering Project,” Kyo Kang, 1991-1992, Researcher
4. European Union, RENOIR, Requirements Engineering Network of Excellence, 1996–2000, Head of Technion node, Representative of Non-European nodes, and Member of the Executive Board.