

RESUME
January, 2017

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

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

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

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

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

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

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
Annals of Software Engineering
Communications of the ACM
Computer Aided Design
Electronic Publishing, Origination, Dissemination, and Design
IEEE Computer
IEEE Software
IEEE Transactions on Software Engineering
Information Processing Letters
International Journal of Computer and Information Sciences
Journal of Automated Software Engineering
Journal of Computer Languages
Journal of Systems and Software
Journal of Universal Computer Science
Requirements Engineering Journal
Software — Practice & Experience
Journal of Software and System Modeling
Science of Computer Programming
Information and Software Technology
Journal on Software Tools for Technology Transfer
Journal of Research and Practice in Information Technology
Computer Journal
Journal of Empirical Software Engineering
Computational Intelligence
IEEE Transactions on Education
IEEE Transactions on Engineering Management
IET Software formerly known as *IEE Proceedings Software*
International Journal of Human-Computer Studies
Open Software Engineering Journal
Equality, Diversity and Inclusion: An International Journal
Journal of Information Sciences
Journal of the Association for Information Systems
Journal of the Brazilian Computer Society
Journal of Computer Science and Technology
Journal of Management Information Systems
ACM Transactions on the Web
Journal of Software: Evolution and Process
International Scholarly Research Notices

On program committees for:

1989, 1990, 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 through 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 through 2017 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, 1999, 2000, 2001, 2002, 2003 Automated Software Engineering (ASE)
 1999 Hawaii International Conference on Computing Systems (HICCS), scenarios session
 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, and 2016 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, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, and 2017 International Requirements Engineering Conference (RE)
 2015, 2016, and 2017 International Requirements Engineering Conference (RE) NEXT! track
 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, 2004, and 2005 Workshop on Comparative Evaluation in Requirements Engineering (CERE)
 2003, 2004, 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, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, and 2017 Workshop em Engenharia de Requisitos (WER)
 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, 2007, and 2008 International Workshop on Predictor Models in Software Engineering (PROMISE)
 2006, 2007, 2008, 2009, and 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, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, and 2017 ACM Symposium on Applied Computing (SAC), Requirement 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, 2009, 2010, and 2011 International Workshop on RE Education and Training (REET)
 2008, 2009, 2010, 2011, 2012, 2013, 2014, and 2015 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 Workshops Selection Committee at RE Conferences
 2010 Workshop on Software Development Governance (SDG)
 2010 Brazilian Conference on Software: Theory and Practice? (CBSOft) Tutorials Committee
 2010 QUATIC'2010 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, 2012, 2013, 2014, and 2015 International Workshop on Empirical Requirements Engineering (EmpiRE)
 2013, 2014, and 2015 International Workshop on Empirical Requirements Engineering at the RE Conference (EmpiREatRE)
 2011, 2012, 2013, 2014, 2015, 2016, and 2017 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, 2014, 2015, 2016, and 2017 Workshop in Cognitive Aspects of Information Systems Engineering (COGNISE)
 2013, 2014, 2015, 2016, and 2017 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 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 and 2016 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)

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) 2010–2015

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

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

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

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–present
Empirical Software Engineering (EMSE), 2005–present
Journal of Software Engineering and Applications (JSEA), 2007–present
Science of Computer Programming (SCP), 2008–present
The Open Software Engineering Journal (TOSEJ), 2009–2014
Journal of Software Engineering Research and Development (JSERD), 2012–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

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 Curriculum Committee for UW Software Engineering Degree Program, 2007–2012

Member of Women in Computer Science Committee, 2007–2011

Member of the Computer Science Computing Facility Advisory Committee, 2008

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

Assisting Director in Reviewing NSERC Proposals, 2010–present

Member of the Curriculum Committee of the University of Waterloo Software Engineering Degree Program,

University of Waterloo, 2011–present

Member of School Tenure & Promotions Committee (T&PC), 2012–2014

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

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–present

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–present

Newsletter Editor: 2005–present

Ritual Committee Chair: 2007–present

Member of Board of Directors: 2007–present

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 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 speaker at Workshop em Engenharia de Requisitos (WER) (Workshop in Requirements Engineering), Toronto, ON, Canada, 17–18 May 2007.

Invited keynote speaker at 14th Monterey Workshop, Workshop on Innovations for Requirements Analysis: From Stakeholders Needs to Formal Designs, Monterey, CA, USA, 10–13 September 2007.

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 speaker at Software Knowledge Workshop (SKY) at SwSTE’2010, Herzliya, Israel, 16 June 2010

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

MEMBERSHIPS

ACM member since 1967

IEEE Computer Society member since 1980

IFIP WG 2.9, Requirements Engineering, charter member since 1995

BIBLIOGRAPHY

Papers Published in Professional and Scholarly Journals, Proceedings, Records of Conferences and Symposia, or Quarterlies

Contributions to Refereed Journals

1. Berry, D.M., Yavne, M. "The Conway Stones: What the Original Hebrew May Have Been," *Mathematics Magazine*, 49:4, pp. 207–210, September 1976 (Published Paper)
2. Berry, D.M., Erlich, Z., Lucena, C.J. "Pointers and Data Abstractions in High Level Languages, Part I: Language Proposals," *J. of Computer Languages*, 2:4, pp. 135–148, 1977 (Published Research Paper)
3. Berry, D.M. "Pointers and Data Abstractions in High Level Languages, Part II: Correctness Proofs," *J. of Computer Languages*, 2:4, pp. 149–170, 1977 (Published Research Paper)
4. Berry, D.M., Chirica, L.M., Johnston, J.B., Martin, D.F., Sorkin, A. "Time Required for Reference Count Management in Retention Block-Structured Languages, Part 1," *Int. J. of Computer and Information Sciences*, 7:1, pp. 11–64, March 1978 (Published Research Paper)
5. Berry, D.M., Chirica, L.M., Johnston, J.B., Martin, D.F., Sorkin, A. "Time Required for Reference Count Management in Retention Block-Structured Languages, Part 2," *Int. J. of Computer and Information Sciences*, 7:2, pp. 91–119, July 1978 (Published Research Paper)
6. Berry, D.M., Sorkin, A. "On the Time Required for Garbage Collection in Block Structured Languages," *Int. J. of Computer and Information Science*, 7:4, pp. 361–404, December 1978 (Published Research Paper)
7. Schwartz, R.L., Berry, D.M. "A Semantic View of ALGOL 68," *J. of Computer Languages*, 4:1, pp. 1–15, 1979 (Published Research Paper)
8. Berry, D.M., Schwartz, R.L. "United and Discriminated Record Types in Strongly Typed Languages," *Information Processing Letters*, 9:1, pp. 13–18, July 20, 1979 (Published Research Paper)
9. Berry, D.M., Kemmerer, R.A., von Staa, A., Yemini, S. "Toward Modular Verifiable Exception Handling," *J. of Computer Languages*, 5:2, pp. 77–101, July 1980 (Published Research Paper)
10. Berry, D.M. "Remarks on R.D. Tennent's 'Language Design Methods Based on Semantic Principles': Algol 68, A Language Designed Using Semantic Principles," *Acta Informatica*, 15, pp. 83–98, 1981 (Published Research Paper)
11. Berry, D.M., Ghezzi, C., Mandrioli, D., Tisato, F. "Language Constructs for Real-Time Distributed Systems," *J. of Computer Languages*, 7:1, pp. 11–20, 1982 (Published Research Paper)
12. Leveson, N.G., Wasserman, A.I., Berry, D.M. "BASIS: A Behavioral Approach to the Specification of Information Systems," *Information Sciences*, 8:1, pp. 15–23, 1983 (Published Research Paper)
13. Yemini, S., Berry, D.M. "A Modular Verifiable Exception Handling Mechanism," *Transactions on Programming Languages and Systems*, 7:2, pp. 214–243, April 1985 (Published Research Paper)
14. Berry, D.M. "A Denotational Semantics for Shared-Memory Parallelism and Nondeterminism," *Acta Informatica*, 21, pp. 599–627, 1985 (Published Research Paper)

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63. Isaacs, D. and Berry, D.M., “Developers Want Requirements, but Their Project Manager Doesn’t; and a Possibly Transcendent Hawthorne Effect,” *Proceedings of the International Workshop on Empirical Requirements Engineering*, pp. 37–44, Trento, IT, August, 2011 (Published Research Paper)
64. Berry, D.M., Gacitua, R., Sawyer, P., and Tjong, S.F., “The Case for Dumb Requirements Engineering Tools,” *Proceedings of the 2012 Working Conference on Requirements Engineering: Foundation for*

- Software Quality (REFSQ)*, pp. 211–217, Essen, Germany, March, 2012 (Published Research Paper)
65. Niknafs, A. and Berry, D.M., “The Impact of Domain Knowledge on the Effectiveness of Requirements Idea Generation during Requirements Elicitation,” *Proceedings of the 2012 IEEE International Requirements Engineering Conference (RE)*, pp. 182–190, Chicago, IL, USA, 2012 (Published Research Paper)
 66. 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)*, pp. 80–95, Essen, Germany, April, 2013 (Published Research Paper)
 67. Philippo, E.J., Heijstek, W., Kruiswijk, B., Chaudron, M.R.V., and Berry, D.M., “Requirement Ambiguity Not as Important as Expected — Results of an Empirical Evaluation,” *Proceedings of the 2013 Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ)*, pp. 65–79, Essen, Germany, April, 2013 (Published Research Paper)
 68. Sakhnini, V., Mich, L., and Berry, D.M., “Group Versus Individual Use of an Optimized and the Full EPMcreate as Creativity Enhancement Techniques for Web site Requirements Elicitation,” *Proceedings of the Workshop on Creativity in Requirements Engineering (CreaRE) at REFSQ’2013*, Essen, Germany, April 2013 (Published Research Paper)
 69. Niknafs, A. and Berry, D.M., “An Industrial Case Study of the Impact of Domain Ignorance on the Effectiveness of Requirements Idea Generation during Requirements Elicitation,” *Proceedings of the 2013 IEEE International Requirements Engineering Conference (RE)*, pp. 279–283, Rio de Janeiro, RJ, Brazil, 2013 (Published Research Paper)
 70. Mauger, C. Berry, D.M., “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,” *Proceedings of the IEEE International Conference on Software — Science, Technology & Engineering (SwSTE’2014)*, pp. 67–76, Ramat Gan, Israel, June 2014 (Published Research Paper)
 71. Zamansky, A., Hadar, I., and Berry, D.M., “Reasoning about Inconsistency in RE: Separating the Wheat From the Chaff,” *Proceedings of COLAFORM 2016*, pp. 377–382, Rome, Italy, April 2016 (Published Research Paper)
DOI:10.5220/0005928603770382
 72. Dupree, J.L., DeVries, R., Berry, D.M., and Lank, E., “Privacy Personas: Clustering Users via Attitudes and Behaviors toward Security Practices,” *Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems (CHI’16)*, pp. 5228–5239 (Published Research Paper)
 73. Berry, D.M., Czarnecki, K., Antkiewicz, M., and AbdElRazik, M., “The Problem of the Lack of Benefit of a Document to its Producer (PotLoBoaDtIP),” *Proceedings of the IEEE International Conference on Software — Science, Technology & Engineering (SwSTE’2016)*, pp. 37–42, Beer Sheva, Israel, June 2016 (Published Research Paper)

Contributions to Refereed Conferences and Symposia (accepted, but not yet appeared)

Contributions to Refereed Conferences and Symposia (submitted)

Invited Contributions to Refereed Journals, Books, Conferences, Workshops, and Symposia

1. Berry, D.M. "Specification of Programs," *Proc. of I Seminario Internacional de Invierno sobre Desarrollo de Software Confiable Santiago*, pp. 1–14, Santiago, Chile, July 1978 (Invited Research Paper)
2. Berry, D.M. "PASCAL or ALGOL 68," *Research Directions in Software Technology*, pp. 641–645, in P. Wegner (Ed.), MIT Press, Cambridge, MA, 1979 (Invited Discussant Item)
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)
4. Berry, D.M. "High Level Language Computer Architecture: An Overview and Some Principles," *Proc. of III Seminario Internacional de Invierno sobre Sistemas de Computacion*, pp. 1–31, Santiago, Chile, August 1980 (Invited Research Paper)
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)
6. Berry, D.M. "The Application of the Formal Development Methodology to Data Base Design and Integrity Verification," *Cursos sobre Bases de Datos*, pp. 5–90, Santiago, Chile, August 1981 (Invited Research Paper)
7. Berry, D.M. "Program Proofs Produced Practically," *Feed-Back 81*, pp. 1–50, DSSD User's Conference, Topeka, KS, October 1981 (Invited Tutorial Paper)
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)
11. Berry, D.M. "DEBATE, Resolved: It is possible to develop software of high quality while developing that software for research purposes, The Con Position," Achieving Quality Software IV, San Diego, CA, January, 1994. (Invited Lecture)
12. Maarek, Y., Berry, D.M., and Kaiser, G.E., "GURU: Information Retrieval for Reuse," *Landmark Contributions in Software Reuse and Reverse Engineering* edited by P. Hall, Unicom Seminars, Ltd., 1994. (Invited Research Paper)
13. Berry, D.M., "Whither Formal Methods: Some Thoughts on the Application of Formal Methods to the Problems of Software Engineering," *1994 Monterey Workshop*, attendance-by-invitation-only, limited-number-of-participants workshop, Monterey, CA, September, 1994. (Invited Position Paper)
14. Berry, D.M. "The Requirements Iceberg and Various Icepicks Chipping at It," VIII Simposio Brasileiro de Engenharia de Software, Curitiba, Brasil, October, 1994 (Invited Lecture)
15. Berry, D.M. "The Requirements Iceberg and Various Icepicks Chipping at It," XIV International

- Conference of the Chilean Computer Science Society, Concepcion, Chile, November, 1994 (Invited Lecture)
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)
 18. Berry, D.M., “Software Engineering Myths and Realities,” XI Simposio Brasileiro de Engenharia de Software, Fortaleza, Brasil, October, 1997 (Invited Tutorial)
 19. Berry, D.M., “User’s Manuals as Scenario-Based Requirements Specifications,” Schloß Dagstuhl Workshop on Scenario Management, an attendance-by-invitation-only, limited-number-of-participants seminar, Wadern, Germany, 9–13 February, 1998 (Invited Lecture)
 20. Berry, D.M. and Lawrence, B., “Requirements Engineering,” *IEEE Software*, 15:2, pp. 26–29, March, 1998 (Invited, non-refereed Guest Editors’ Introduction).
 21. Berry, D.M., “Formal Methods, the Very Idea, Some Thoughts,” *1998 Monterey Workshop on Engineering Automation for Computer Based Systems*, attendance-by-invitation-only, limited-number-of-participants workshop, Monterey, CA, 27 October, 1998. (Invited Lecture)
 22. Berry, D.M., “Ignorant Questions about Case Study,” Schloß Dagstuhl Seminar on Requirements Capture, Documentation, and Validation, an attendance-by-invitation-only, limited-number-of-participants seminar, Wadern, Germany, 13–18 June 1999 (Invited Lecture)
 23. Ravid, A. and Berry, D.M., “A Method for Extracting and Stating Software Requirements that a User Interface Prototype Contains,” in (Eds. H.-J. Bullinger and J. Ziegler) *Human-Computer Interaction: Ergonomics and User Interfaces*, Volume 1, *Proceedings of HCI International ’99*, Munich, Germany, 22–26 August 1999, pp. 900–905, Lawrence Erlbaum Associates, Mahwah, NJ 1999 (Invited Abstract for Panel)
 24. Ramos, I. and Berry, D.M., “The Role of Emotion, Values, and Beliefs in the Construction of Innovative Work Realities,” Schloß Dagstuhl Seminar on Supporting Customer-Supplier Relationships (CSR), an attendance-by-invitation-only, limited-number-of-participants seminar, Wadern, Germany, 1–6 September 2002 (Invited Lecture)
 25. Berry, D.M., “Requirements Engineering Lessons from House Building,” Schloß Dagstuhl Seminar on Supporting Customer-Supplier Relationships (CSR), an attendance-by-invitation-only, limited-number-of-participants seminar, Wadern, Germany, 1–6 September 2002 (Invited Lecture)
 26. Berry, D.M. and Kamsties, E., “Ambiguity in Requirements Specification,” pp. 7–44, J.C.S.P. Leite and J. Doorn (eds.), *Perspectives on Requirements Engineering*, Kluwer, 2004 (Invited Book Chapter)
 27. Berry, D.M., “Requirements for Maintaining Web Access for Hearing-Impaired Individuals,” *Software Quality Journal*, 12:1, pp. 9–28, 2004 (Invited Research Paper)
 28. Mich, L., Anesi, C., and Berry, D.M., “EPMCreate, a Creativity Facilitation Technique Based on a Model of the Pragmatics of Communication,” a Micro-Tutorial presented in a Mini-Tutorial on Creativity in Requirements Engineering, International Requirements Engineering Conference (RE), Kyoto, Japan, 10

September 2004 (Invited Lecture)

29. Berry, D.M. and Kamsties, E., “The Syntactically Dangerous *All* and Plural in Specifications,” *IEEE Software* 22:1, pp. 55–57, January/February 2005 (Invited Article)
30. Berry, D.M., “Ambiguity in Requirements Specification,” SBW05.3—SEMAG Bimonthly Workshop, 16 June 2005, Departamento Sistemas de Informação, Universidade do Minho, Guimarães, Portugal (Invited Keynote Lecture)
31. Mich, L., Anesi, C., and Berry, D.M., “EPMCreate, a Creativity Facilitation Technique Based on a Model of the Pragmatics of Communication,” a Micro-Tutorial presented in a Mini-Tutorial on Creativity in Requirements Engineering, International Requirements Engineering Conference (RE), Paris, France, 2 September 2005 (Invited Lecture)
32. 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)
33. Berry, D.M., “Text Formatting,” *Encyclopedia of Language and Linguistics*, Second Edition, Elsevier: Oxford UK, Article 0984, 2006 (Invited Encyclopedia Article)
34. 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)
35. 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)
36. Berry, D.M., “Requirements Engineering Lessons from House Building,” Workshop em Engenharia de Requisitos (WER), 17 May 2007, Toronto, ON, Canada (Invited Keynote Lecture)
37. Berry, D.M., “Ambiguity in Natural Language Requirements Documents,” Monterey Workshop on Innovations for Requirements Analysis: From Stakeholder Needs to Formal Design, 10–14 September 2007, Monterey, CA, USA (Invited Keynote Lecture)
38. Berry, D.M., “Ambiguity in Natural Language Requirements Documents,” Business Rules Forum, 24 October 2007, Orlando, FL, USA (Invited Lecture)
39. Berry, D.M., “In Requirements Engineering (RE), Everything is an Aspect,” Workshop on Early Aspects at ICSE 2008, 12 May 2008, Leipzig, Germany (Invited Keynote Lecture)
40. Berry, D.M., “Ambiguity in Natural Language Requirements Documents: Extended Abstract,” Paech, B. and Martell, C. (Eds.), *Innovations for Requirements Analysis: From Stakeholders’ Needs to Formal Design, Revised Selected Papers from 14th Monterey Workshop 2007*, pp. 1–7, LNCS5320, Berlin: Springer, 2009 (Invited Extended Abstract Based on Keynote Talk)
41. Berry, D.M., “One Requirements Engineer’s View of Conceptual Modeling,” Software Knowledge Workshop (SKY) at SwSTE’2010, 16 June 2010, Herzliya, Israel (Invited Keynote Lecture)
42. Berry, D.M., “Technical Perspective, Liability Issues in Software Engineering,” *Communications of the*

ACM 54:4, p. 98, April, 2011 (Invited Technical Perspective on Refereed Published Research Paper)

43. Berry, D.M., “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)
44. Berry, D.M., “Are Creativity, HCI, and Emotions Parts of RE?,” 2012 Workshop on Creativity in Requirements Engineering (CreaRE), 19 March 2012 (Invited Keynote Lecture)
45. Berry, D.M., “Requirements Elicitation,” *Computing Handbook*, Third Edition, Volume 1, Chapter 87, Taylor and Francis: London, UK, 2014 (Invited Encyclopedia Article)

Contributions to Non-refereed Conferences, Symposia, Quarterlies, and Journals

1. Berry, D.M. “The Importance of Implementations in Algol 68 or How to Discover the Concept of Necessary Environment,” *SIGPLAN Notices*, 5:9, pp. 14–24, September 1970 (Published Research Paper)
2. Berry, D.M. “Tasking in Oregano,” *Proc. of the 5th Annual Princeton Conf. on Information Sciences and Systems*, pp. 295–299, March 1971 (Published Research Paper)
3. Berry, D.M. “Towards ISMs for OPSs,” *Proc. of the SIGPLAN-SIGOPS Interface Meeting*, pp. 46–49, April 1973 (Published Research Paper)
4. Berry, D.M., Johnston, J.B., Murphy, D.P. “Expression Stack Management in Nested Declaration Computation,” *Proc. of the 8th Annual Princeton Conf. on Information Sciences & Systems*, pp. 311–315, March 1974 (Published Research Paper)
5. Berry, D.M. “An Example of Structured Programming,” *UCLA Computer Science Dept. Quarterly*, 2:3, pp. 37–48, July 1974
6. Lucena, C.J., Berry, D.M. “Towards a Definition of Structured Programming,” *Proc. of the Int. Seminar on Collective Phenomena and the Applications of Physics to Other Fields of Science*, pp. 260–264, Moscow, July 1974 (Published Abstract)
7. Berry, D.M. “Structured Documentation,” *SIGPLAN Notices*, 10:11, pp. 7–12, Nov. 1975 (Published Research Paper)
8. Berry, D.M., Schwartz, R.L. “Preliminary Evaluation of DOD1 Language Proposals and SPL/I,” in P. Wegner (Ed.) *Language Design and Evaluation Studies*, pp. 1–39, Brown Univ., Providence, RI, 1979 (Published Research Paper)
9. Berry, D.M., Schwartz, R.L. “Type Equivalence in Strongly Typed Languages: One More Look,” *SIGPLAN Notices*, 14:9, pp. 35–41, September 1979 (Published Research Paper)
10. Berry, D.M. “The Application of the Formal Development Methodology to Data Base Design and Integrity Verification,” *UCLA Computer Science Dept. Quarterly*, 9:4, pp. 63–96, Fall, 1981 (Published Research Paper)
11. Berry, D.M. “A Denotational Semantics for Shared-Memory Parallelism and Nondeterminism,” *The UCLA Computer Science Department Quarterly*, 12:1, pp. 93–126, Winter, 1984 (Published Research Paper)
12. Berry, D.M. “A New Methodology for Generating Test Cases for A Programming Language Compiler,”

- The UCLA Computer Science Department Quarterly*, 10:4, pp. 63–72, Fall, 1982 (Published Research Paper)
13. Berry, D.M. “On Intellectual Responsibility,” *Communications of the ACM*, 25:9, pp 676–677., 1982 (Letter to Editor)
 14. Berry, D.M. “A New Methodology for Generating Test Cases for A Programming Language Compiler,” *SIGPLAN Notices*, 18:2, pp. 46–56, February, 1983 (Published Research Paper)
 15. Berry, D.M., Berry, O. “The Programmer-Client Relationship in Arriving at Program Specifications: Guidelines and Linguistic Requirements,” *The UCLA Computer Science Department Quarterly*, 11:2, pp. 107–126, Spring, 1983 (Published Research Paper)
 16. Berry, D.M., Berry, O. “Experiments in Object-Oriented Programming of Simulations of Concurrent Simulations using SIMULA 67,” *Proc. Eleventh SIMULA Users’s Conference*, pp. 1–7, Paris, France, September, 1983 (Published Research Paper)
 17. Berry, D.M. “On the Use of Ada as a Module Interconnection Language,” *Proc. of 17th Hawaii International Conference on System Science*, pp. 294–302, Honolulu, Hawaii, January, 1984 (Published Research Paper)
 18. Mazaher, Sh., Berry, D.M. “Deriving A Compiler from an Operational Semantics Written in VDL” *The UCLA Computer Science Department Quarterly*, 12:2, pp. 111–126, Spring, 1984 (Published Research Paper)
 19. Berry, D.M. “On the Application of Ada and its Tools to the Information Hiding Decomposition Methodology for Design of Software Systems,” *The UCLA Computer Science Department Quarterly*, 12:4, pp. 93–115, Summer, 1984 (Published Research Paper)
 20. Berry, D.M., Yavne, N., and Yavne, M. “On the Requirements for and the Use of a Program Design Language: Parameterization, Abstract Data Typing, Strong Typing,” *Ada® Letters* VI:1, pp. 82–89, January, February, 1986 (Published Research Paper)
 21. Berry, D.M. “DITROFF/FFORTID: An Adaptation of the UNIX™ DITROFF for Formatting Bi-Directional Text,” *Hebrew Users Group Newsletter* 4:2, p. 11, Spring, 1988 (Published Review Paper)
 22. Yanai, S. and Berry, D.M. “Environment for Translating METAFONT to POSTSCRIPT,” *TUGboat* 11:4, pp. 525–541, 1990 (Published Review Paper)
 23. Berry, D.M. “Why U.S. Folk Eat Turkey on Thanksgiving,” *Journal of Irreproducible Results*, 39:6, pp. 18–21, May, 1995 (Published Satire), disavowed publication as it was published without my having a chance to proofread it, corrected paper available in <http://se.uwaterloo.ca/~dberry/2004.turkey.pdf>
 24. Schulman, E., *et al* (... Berry, D.M., ...), “History of the Universe in 200 Words or Less in 30 Languages or More in Teeny Tiny Type,” *Annals of Improbable Research* IV:6, 28–29, November/December, 1998 (Published Scientific Satire)
 25. Berry, D.M. “Knowing Everything about the Requirements for a Computer-Based, Software-Intensive System,” *Requireonautics Quarterly*, Issue 20, pp. 11–12, March 2000 (Published Essay)
 26. Berry, D.M. “Myths and Realities in Software Development,” Lecture Slides, made available by

WeberDev.com, March 2003 (Published Lecture Slides)
<http://marisd.weberdev.com>

27. Berry, D.M. and Kamsties, E., “Clarifying Ambiguity,” *IEEE Software* 23:4, pp. 8–9, July/August, 2006 (Letter to Editor)
28. Berry, D.M., “A Theory About the True Origins of William Shakespeare and *Hamlet*,” *Journal of Irreproducible Results*, 50:3, pp. 6–9, 2007 (Published Scientific Satire and Short Story)
29. Berry, D.M., “‘What, Not How?’: The Case of Specifications of the New York Bagel,” *Annals of Improbable Research*, 15:1, pp. 6–10, January/February, 2009 (Published Scientific Satire)
30. Berry, D.M., and Mich, L., “The Computational Complexity of Chinese and Italian Noodle Making,” *Proceedings of SIGBOVIK 2016*, Paper 6, pp. 0x248fd1aa778f4c65964afe5512748fe503a3d796ec35721e3fb68c0a7063dff5, ff. (with cryptographically obfuscated page numbers) (Published Scientific Satire)
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Contributions to Non-refereed Conferences, Symposia, Quarterlies, and Journals (accepted, but not yet appeared)

Technical Reports

1. Berry, D.M. “LISP for Algol Afficionados and Algol for LISP Afficionados,” General Electric R&D Center, Schenectady, September 1970
2. Berry, D.M. “Some Aspects of the Structure of Algol 68,” Division of Applied Math, Brown University, October 1970
3. Berry, D.M. “Definition of the Contour Model in the Vienna Definition Language,” TR-71-40, Center for Computer and Information Sciences, Brown University, April 1971
4. Berry, D.M., Wegner, P. “Adding Labels to EPL,” Math Dept., Hebrew Univ., Jerusalem, May 1972
5. Berry, D.M. “An Algol 68 Interpreter,” Modelling and Measurement Note 16, UCLA Computer Science Dept., October 1973
6. Berry, D.M., Chirica, L., Johnston, J.B., Martin, D.F., Sorkin, A. “On the Time Required for Retention,” Modelling and Measurement Note 20, UCLA, November 1973 (Expanded Version of Publication of same name)
7. Berry, D.M., Sorkin, A. “On the Time Required for Good Old Fashioned Garbage Collection,” Modelling and Measurement Note 21, UCLA, November 1973
8. Berry, D.M. “On the Design and Specification of the Programming Language Oregano,” Ph.D. Thesis, UCLA-ENG-7388, UCLA Computer Science Dept., January 1974
9. Berry, D.M. “Loops with Normal and Abnormal Exits,” Modelling and Measurement Note 23, UCLA Computer Science Dept., March 1974
10. Lucena, C.J., Berry, D.M. “Towards a Definition of Structured Programming,” Internal Memorandum No. 126, UCLA Computer Science Dept., March 1974

11. Berry, D.M., Erlich, Z., Lucena, C.J. "Structured Data Representation: Proposed Modifications of the Concept of Cluster," Modelling and Measurement Note 27, UCLA Computer Science Dept., May 1974
12. Berry, D. M., Goguen, J.A. "ALGebric Semantics for ALGol 68," Modelling and Measurement Note 29, UCLA Computer Science Dept., May 1974
13. Berry, D.M., Sorkin, A. "On the Time Required for Garbage Collection in Retention Block-Structured Languages," Modelling and Measurement Note 31, UCLA Computer Science Dept., September 1974
14. Berry, D.M., Chirica, L., Erlich, Z., Lucena, C.J., Walton, E. "STRUGGLE: Structured Generalized Goto-less Language," (Preliminary Version), Internal Memorandum #134, UCLA, Computer Science Dept., Oct. 1974
15. Berry, D.M., Chirica, L., Johnston, J.B., Martin, D.F., Sorkin, A. "On the Time Required for Retention," (updated Version), Modelling and Measurement Note 20A, February 1975
16. Berry, D.M. "Correctness of Data Representations: Pointers," Internal Memorandum No. 142, UCLA Computer Science Dept., September 1975
17. Berry, D.M. "Definition of the Contour Model in the Vienna Definition Language," Modeling and Measurement Note 40, UCLA Computer Science Dept., October 1975
18. Berry, D.M., Campos, I., Hooper, R., Kampe, M., Kemmerer, R., Rhodes, M. "An Experience in Group Structured and Modular Programming: Conclusions and Recommendations," Internal Memorandum No. 143, UCLA Computer Science Dept., October 1975
19. Berry, D.M., Paolini, P. "Binding in Abstract Types: Data Bases and JCL," Internal Memorandum No. 144, UCLA Computer Science Dept., November 1975
20. Berry, D.M. "STRIMULA Design as of 23 Jan. 1976," Internal Memorandum No. 148, UCLA Computer Science Dept., February 1976
21. Berry, D.M. "Separate Compilation," Internal Memorandum No. 147, UCLA Computer Science Dept., February 1976
22. Berry, D.M., Kemmerer, R.A., et. al., "Some Remarks on Exception Handling a' la Goodenough," UCLA, Computer Science Dept., February 1976
23. Lucena, C.J., Schwabe, D., Berry, D.M. "Issues in Data Type Construction Facilities," UCLA Computer Science Dept., June 1976
24. Berry, D.M. "Some Reflections on Teaching Software Engineering and on the Importance of Program Specifications," UCLA Computer Science Dept. June 1976
25. Berry, D.M., Paolini, P. "Application of Abstract Data Types to Data Bases and Job Control Languages," UCLA Computer Science Dept., September 1976
26. Berry, D.M., Erlinger, M., Johnston, J.B., von Staa, A. "Models of Hierarchical Machine Support," Internal Memorandum #155, UCLA Computer Science Dept., September 1976
27. Berry, D.M., Von Staa, A., Kemmerer, R.A., Yemini, S. "Towards Modular Verifiable Exception Handling," UCLA Computer Science Dept., June 1978

28. Penedo, M.H., Berry, D.M. "The Use of a Module Interconnection Specification Capability in the SARA Systems Design Methodology," UCLA Computer Science Dept., June 1978
29. Berry, D.M. "Specification of Programs," UCLA, Computer Sci. Dept., July 1978
30. Berry, D.M., Schwartz, R.L. "Preliminary Evaluation of DOD1 Language Proposals and SPL/I," Faculty of Mathematics, Weizmann Institute of Science, Rehovot, Israel, December 1978
31. Berry, D.M., Schwartz, R.L. "United and Discriminated Record Types in Strongly Typed Languages," Faculties of Mathematics, Weizmann Institute of Science, Rehovot and Hebrew Univ., Jerusalem, Israel, 1979
32. Berry, D.M., Schwartz, R.L. "Type Equivalence in Strongly Typed Languages: One More Look," Faculties of Mathematics, Weizmann Institute of Science, Rehovot and Hebrew Univ., Jerusalem, Israel, 1979
33. Berry, D.M. "Remarks on R.D. Tennent's 'LANGUAGE DESIGN METHODS BASED ON SEMANTIC PRINCIPLES': Algol 68, A Language Designed Using Semantic Principles," Faculties of Mathematics, Weizmann Institute of Science, Rehovot and Hebrew Univ., Jerusalem, Israel, 1979
34. Berry, D.M. "Program Proofs Made Practical," Faculties of Mathematics, Weizmann Institute of Science, Rehovot and Hebrew Univ., Jerusalem, Israel, 1979
35. Berry, D.M., Ghezzi, C., Mandrioli, D., Tisato, F. "Some Considerations In Real-Time Distributed Systems," Istituto di Elettrotecnica ed Electronica del Politecnico di Milano, Italy, July 1979
36. Berry, D.M., Schwartz, R.L. "Formal Definition of Ada: Issues and Recommendations," Dept. of Applied Math., Weizmann Institute of Science, Rehovot, Israel, September 1979
37. Berry, D.M. "High Level Language Computer Architecture: An Overview and Some Principles," UCLA Computer Science Dept., March 1980
38. Berry, D.M., Berry, O. "The Programmer-Client Interaction in Arriving at Program Specifications: Abstract Data Typing, Strong Typing, and Jewish Motherhood," UCLA Computer Science Dept., March 1980
39. Linden, N.M., Yavne, M., Berry, D.M. "Parameterization and Abstract Data Types in a Program Design Language: The Design of 'Software Development Processor'," UCLA Computer Science Department, March 1981
40. Berry, D.M. "Program Proofs Produced Practically," UCLA Computer Science Dept., January 1981
41. Berry, D.M. "The Application of the Formal Development Methodology to Data Base Design and Integrity Verification," System Development Corporation, April 1981
42. Berry, D.M. "A Denotational Semantics for Shared-Memory Parallelism and Nondeterminism," UCLA Computer Science Department, October 1981
43. Berry, D.M. "A New Methodology for Generating Test Cases for A Programming Language Compiler," UCLA Computer Science Department, June, 1982
44. Yemini, S., Berry, D.M. "A Modular Verifiable Exception Handling Mechanism," UCLA Computer Science Department, June, 1982

45. Berry, D.M., Berry, O. "The Programmer-Client Relationship in Arriving at Program Specifications: Methodology and Language," UCLA Computer Science Department, July, 1982
46. Buchman, C., Berry, D.M. "DITROFF/FFORTID: An Adaptation of the UNIX™ DITROFF for Formatting Bi-Directional Text," UCLA Computer Science Department, June, 1984
47. Mazaher, Sh., Berry, D.M. "Deriving A Compiler from an Operational Semantics Written in VDL," UCLA Computer Science Department, July, 1984
48. Berry, D.M. "Studies in the Combination of Ada™ and Ina Jo™," UCLA Computer Science Department, 1984
49. Berry, D.M. "On the Use of the Formal Development Method Tools to Prove Properties of Systems Under Design: An Informal Justification," SDC, A Burroughs Company, Santa Monica, CA, 1985
50. Berry, D.M. "Treatment of Ada Procedures: Aliasing, Anomalies, and Erroneousness," Unisys West Coast Research Center, Santa Monica, CA 90406, 1988
51. Wolfman, T. and Berry, D.M. "flo—A Language for Typesetting Flowcharts," User's Manual, Faculty of Computer Science, Technion, Haifa, Israel, 1990
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54. Berry, D.M. "Formal Specification and Verification of Concurrent Programs," Curriculum Module SEI-CM-CV-0.1, Software Engineering Institute, Carnegie Mellon University, Pittsburgh, PA 15213, 1993
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58. Berry, D.M. and Weber, M. "A Pragmatic, Rigorous Integration of Structural and Behavioral Modeling Notations," Technical Report CS899, Faculty of Computer Science, Technion, Haifa, Israel, December, 1996.
59. Berry, D.M. "Stretching Letter and Slanted-Baseline Formatting for Arabic, Hebrew, and Persian with ditroff and Dynamic POSTSCRIPT Fonts," Technical Report, Faculty of Computer Science, Technion, Haifa, Israel, 1998
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61. Berry, D.M. and Kamsties, E. "The Dangerous 'All' in Specifications," Technical Report, University of

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63. Berry, D.M., “What, Not How? When Is ‘How’ Really ‘What’? and Some Thoughts on Quality Requirements,” Technical Report, University of Waterloo, Waterloo, ON, Canada, July, 2000
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70. Berry, D.M., “Software and House Requirements Engineering: Lessons Learned in Combatting Requirements Creep,” Technical Report, Cheriton School of Computer Science, University of Waterloo, Waterloo, Ontario, Canada, 2005
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74. Arbab, F. and Berry, D.M., “Why Jews Wear Costumes on Purim,” Technical Report, Cheriton School of Computer Science, University of Waterloo, Waterloo, Ontario, Canada, 2009
75. Berry, D.M., “The Essential Similarity and Differences between Mathematical Modeling and Programming,” Technical Report, Cheriton School of Computer Science, University of Waterloo, Waterloo, Ontario, Canada, 2009

76. Mich, L., Berry, D.M., and Alzetta, A., "Individual and End-User Application of the EPMcreate Creativity Enhancement Technique to Website Requirements Elicitation," Technical Report, Cheriton School of Computer Science, University of Waterloo, Waterloo, Ontario, Canada, 2010
77. Ellis, K. and Berry, D.M., "Quantifying the Impact of Requirements Definition and Management Process Maturity on Project Outcome in Business Application Development," Technical Report, Cheriton School of Computer Science, University of Waterloo, Waterloo, Ontario, Canada, 2011
78. Mehrotra, G. and Berry, D.M., "Role of Domain Ignorance in Software Development: Software Development Tasks Benefiting from Domain Ignorance," Technical Report, Cheriton School of Computer Science, University of Waterloo, Waterloo, Ontario, Canada, 2012
79. Mehrotra, G. and Berry, D.M., "Role of Domain Ignorance in Software Development: How Domain Ignorance Helps Immigration to Software Development Projects," Technical Report, Cheriton School of Computer Science, University of Waterloo, Waterloo, Ontario, Canada, 2012

STUDENTS

Supervised Doctoral Dissertations

1. Meyers, Barbara F., "Design of a Language for an Associative Processor," 1975 (UCLA)
2. Schwartz, Richard L., "An Axiomatic Definition of ALGOL 68," 1978 (UCLA)
3. Erlinger, Michael, "Analysis of Retention Storage Management for Generalized Block Structure Languages," 1979 (UCLA)
4. Kemmerer, Richard A., "Verification of the UCLA Security Kernel: Abstract Model, Mapping, Theorem Generation, and Proof," Co-advised, 1979 (UCLA)
5. Leveson, Nancy G., "Applying Abstract Data Type Methodology to Data Base Systems," Co-advised, 1980 (UCLA)
6. Misherghi, Shakib H., "An Investigation of The Architectural Requirements of SIMULA 67," 1980 (UCLA)
7. Penedo, Maria Heloisa, "The Use of a Module Interconnection Specification Capability in the synthesis of Reliable Software Systems," Co-advised, 1980 (UCLA)
8. Yemini, Shaula, "The Replacement Model for Modular, Verifiable Exception Handling," 1980 (UCLA)
9. Paolini, Paolo, "Abstract Data Types and Data Bases," 1981 (UCLA)
10. Schwabe, Daniel, "Formal Techniques for the Specification and Verification of Protocols," 1981 (UCLA)
11. Mazaher, Shahrzade, "An Approach to Compiler Correctness," 1981 (UCLA)
12. Burstin, Meir D., "Requirements Analysis of Large Software Systems," Co-advised, 1985 (Tel Aviv University)
13. Worley, Duane R., "A Methodology, Specification Language, and Automated Support Environment for Computer Aided Design Systems," 1986 (UCLA)

14. Krell, Eduardo A., "A SARA-based Ada Programming Support Environment," 1986 (UCLA)
15. Lor, Edward Kar-Wing, "A Requirement-Driven System Design Environment," 1988 (UCLA)
16. Maarek, Yoëlle, "Using Structural Information for Managing Very Large Software Systems," 1989 (Technion)
17. Schwarz, Avner, "Representing and Solving the Automated Building Design (ABD) Problem," Co-advised, 1992 (Technion)
18. Goldin, Leah, "A Method for Aiding Requirements Analysts in Requirements Elicitation for Large Software Systems," 1994 (Technion)
19. Jehuda, Jair, "A Top-Layer Design Approach to Complex Real-Time Software," 1998 (Technion)
20. Breitman, Karin, "Evolução de Cenários (Evolution of Scenarios)," Co-advised, 2000 (PUC, Rio de Janeiro, Brazil)
21. Kamsties, Erik, "Surfacing Ambiguity in Natural Language Requirements," Co-advised, 2001 (Universität Kaiserslautern, Kaiserslautern, Germany)
22. Ramos, Isabel, "Computer-Based Systems and the Structural, Social, Political, and Symbolic Dimensions of Work," Co-advised, 2001 (Universidade do Minho, Guimarães, Portugal)
23. Svetinović, Davor, "Increasing the Semantic Similarity of Object-Oriented Domain Models by Performing Behavioral Analysis First," Co-advised, 2006 (Waterloo)
24. Tjong, Sri Fatima, "Avoiding Ambiguity in Requirements Specifications," Externally Co-advised, 2008 (University of Nottingham Malaysia Campus)
25. Niknafs, Ali, "The Impact of Domain Knowledge on the Effectiveness of Requirements Engineering Activities," 2014 (Waterloo)
26. Ribeiro, Cristina, "The Prevalence and Impact of Persistent Ambiguity in Software Requirements Specification Documents," 2016 (Waterloo)

External Expert or Advisor for Ph.D. Committees

1. Gonzales, Regina, "Capturing Requirements by Formalizing and Integrating Stakeholder Conceptual Models," 2000, New Mexico State University
2. Sobczak, Andrzej, "Techniques for Ranking Priorities of Initial Requirements for Public Sector Management Information Systems Based on Strategic Changes," 2003, Warsaw School of Economy, Poland
3. Mauger, Cyril, "Méthode de Définition des Exigences d'un Produit Intégrant ses Services Appliquée aux Bâtiments Publics ," 2015, Arts et Métiers ParisTech, France

Supervised Masters Theses

1. Yueh, Betty, "Contour Model Display Processor," 1975 (UCLA)
2. Burgess, Henry W., "An Abstract Data Type Extension to a Typeless Language," 1975 (UCLA)
3. Rempe, Barbara, "Structured Programming of a Compiler for a Structured Language," 1975 (UCLA)
4. Walters, Linda K., "A Method for the Comparative Evaluation of Computer Architecture," 1975 (UCLA)
5. Riggins, M. Christian, "A Definition of Run-Time Error Handling in ALGOL 68," 1975 (UCLA)
6. Allen, Steven James, "The Implementation of String Manipulation in Strimula 76," 1976 (UCLA)
7. Kaplan, Ronald E., "The Strimula 76 System," 1976 (UCLA)
8. Linden, Nancy M., "A Software Development Processor: A Tool for Program Design," 1976 (UCLA)
9. Schwartz, Richard L., "Parallel Compilation: A Design and its Application to SIMULA 67," 1976 (UCLA)
10. Eggert, Paul R., "A Constructive Definition of Vienna Objects," 1977 (UCLA)
11. Hethely, Attila, "Structured Documentation for On-line Digital Systems," 1977 (UCLA)
12. Kaufman, Lawrence J., "Another Capability Based Computer," 1977 (UCLA)
13. Takemura, Joan E., "Proof of Correctness of Implementations of Pointers," 1977 (UCLA)
14. Omi, Bert Y., "Implementation Techniques for a High Level Microprogramming Language," 1977 (UCLA)
15. Chan, Francis Yiu-Tung, "Type Checking and Type Breaching," 1978 (UCLA)
16. Campbell, Douglas C., "An Almost SLR(1) Grammar with Semantics for STRIMULA '76," 1978 (UCLA)
17. Mujica, Sergio T., "Data Flow Languages and Interpreters," 1978 (UCLA)
18. Pugh, Eric, "Forth: A Redesign and Implementation," 1978 (UCLA)
19. Smallberg, David, "Automatic Verification Condition Generation Using Intermittent Assertions," 1978 (UCLA)
20. Beyschlag, Ulf, "An Euler Style Definition of Simula 67," 1981 (UCLA)
21. Dempsey, John, "The Design, Development, and Maintenance System," 1983 (UCLA)
22. Buchman, Cary, "DITROFF/FFORTID, An Adaptation of UNIX's DITROFF for Formatting Bi-Directional Text," 1983 (UCLA)
23. Krell, Eduardo A., "An ADA Translator for the Syntax Directed Editor," 1983 (UCLA)
24. Eterovic, Yadrán, "Porting a Unix Version 6 Algol 60 Interpreter to Unix 4.1 BSD," 1985 (UCLA)

25. Fuller, David A., "A Ditroff Device Driver for the Line-Printer and the Diablo," 1984 (UCLA)
26. Fung, Antony, "The Architecture of A Forth Machine," 1985 (UCLA)
27. Nomicos, Sylvana Garlepp, "An Assessment of a Software Quality Metrics Model for Distributed Systems and its Application to the Evaluation of the LOCUS Distributed System," 1985 (UCLA)
28. Ip, Chok-Ho, "CWPR, A Chinese-Japanese Word Processor for Ditroff," 1985 (UCLA)
29. Fornaciari, William P., "An Outline Editor," 1986 (UCLA)
30. Holtsberg, Steven, "Ina Jo Axioms for Ada's Data Types," 1986 (UCLA)
31. Takata, Kris, "Indx, A Semi-Automatic Indexing Program," 1987 (UCLA)
32. Aguilera, Christine, "Finding Abstractions in Problem Descriptions Using findphrases," 1987 (UCLA)
33. Becker, Zeev, "ditroff/ffortid/r, An Adaptation of the UNIX ditroff for Formatting Tri-Directional Text,"

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1988 (Technion)
34. Habusha, Uri, "vi.iv, a Bidirectional Version of the vi Full-Screen Editor," 1989 (Technion)
35. Allon, Gil, "Minix.Xinim, a Bidirectional Version of Minix, a UNIX variant," 1989 (Technion)
36. Wolfman, Tony, "flo—A Language for Typesetting Flowcharts," 1989 (Technion)
37. Yanai, Shimon, "An Environment for Translating METAFONT to PostScript," 1989 (Technion)
38. Erez, Ruth, "A Contour Model Displaying Interpreter," 1990 (Technion)
39. Srouji, Johny, "Bi-Directional Formatting with Arabic and Farsi," 1990 (Technion)
40. Shpilberg, Faina, "WD-pic, a WYSIWYG, Direct-Manipulation pic," 1997 (Technion)
41. Hornreich, Harry, "A Case Study of Software Reengineering," 1997 (Technion)
42. Ravid, Alon, "A Method for Extracting and Stating Software Requirements that a User Interface Prototype Contains," 1999 (Technion)
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)

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. Maier, Andreas

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\$145,000, "Requirements Engineering," Berry, D.M., 2016–2021

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.