

RESUME  
January, 2007

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U. S. Citizen  
Israeli Citizen  
Canadian Landed Immigrant  
Have U.S. DoD Secret Clearance  
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 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–now

*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 graduate seminar “Advanced Topics in Requirements Engineering,” Waterloo, 1999

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

Member of the Board of the University of Waterloo Software Engineering Degree Program, University of Waterloo, 2000–present

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

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

Taught upper division “The Social Implications of Computing,” Waterloo, 2007–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 Actors in Requirements 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*  
*System and Software 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*

On program committees for:

1989, 1990, 1991, and 2001 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, and 2006 Next Generation Information Technology Symposium (NGITS)  
1993 through 2007 Brazilian Symposium on Software Engineering (SBES)  
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, and 2007 International Workshop 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, and 2007 International Requirements Engineering Conference (RE)  
 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 IEEE Conference on Software—Science, Technology, and Engineering (SwSTE)  
 2003, 2004, and 2005 Workshop on Comparative Evaluation in Requirements Engineering (CERE)  
 2003, 2004, and 2005 Workshop on Requirements of 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 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, and 2007 Workshop em Engenharia de Requisitos (WER)  
 2005 Workshop on Reverse Engineering Requirements (RER)  
 2006 Jornadas de Atualização em Informática (JAI)  
 2006 Workshop on The Role of Abstraction in Software Engineering: Organizational, Managerial and Cognitive Perspectives (WRASE: OM&CP)  
 2006 International Workshop on Predictor Models in Software Engineering (PROMISE)  
 2006 and 2007 International Workshop on Requirements Engineering Visualization (REV)  
 2006 Australian Workshop on Requirements Engineering (AWRE)  
 2007 ICSE Portraits in Practice Track

External Reviewer for:

2006 International Conference on Software Engineering (ICSE)

Conference Chair for:

Fifth Conference on Software Engineering Education

Program Chair for:

I and XII International Conference of the Chilean Computer Science Society  
 1998 IEEE International Conference on Requirements Engineering (ICRE '98)

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

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

On organizing committee for:

- 2003 From Software Requirements to Architectures (STRAW'03)

Tutorial Chair for:

- 2000 IEEE International Conference on Requirements Engineering (ICRE'2000) 1999–2000
- 2005 International Requirements Engineering Conference (RE) 2004–2005

Publicity Chair for:

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

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* published by Springer, 1995–present
- IEEE Transactions on Software Engineering*, 1997–2001
- Journal of the Brazilian Computer Society*, 2003–present
- Empirical Software Engineering*, 2005–present

Guest Co-Editor for:

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

Guest Editor for:

- Special Issue of *Software and System Modelling*, Sometime 2007, on the theme: Modelling Requirements in a Multicultural World

On Ph.D. consortium 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

### *DEPARTMENTAL AND UNIVERSITY SERVICE*

Member of the Executive Board of the University of Waterloo Software Engineering Degree Program, University of Waterloo, 2000–present

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

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

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

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

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

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

### *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–present

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–now.

Temple Shalom at Cedards in Waterloo Activities:

E-Communications Director: 2004–now

Newsletter Editor: 2005–now

Ritual Committee Chair: 2007–now  
Member of Board of Directors: 2007–now

### *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.

### *MEMBERSHIPS*

ACM member since 1965

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)
  15. Mazaher, Sh., Berry, D.M. “Deriving A Compiler from an Operational Semantics Written in VDL,” *J. of Computer Languages*, 10:2, pp. 147–164, 1985 (Published Research Paper)
  16. Buchman, C., Berry, D.M., Gonczarowski, J. “DITROFF/FFORTID: An Adaptation of the UNIX™ DITROFF for Formatting Bi-Directional Text,” *Transactions on Office Informations Systems*, 3:4, pp. 380–397, October, 1985 (Published Research Paper)
  17. Berry, D.M. “Towards a Formal Basis for the Formal Development Method and the Ina Jo™ Specification Language,” *IEEE Transactions on Software Engineering*, SE-13:2, pp. 184–201, February, 1987 (Published Research Paper)
  18. Yemini, S., Berry, D.M. “An Axiomatic Treatment of Exception Handling in an Expression-Oriented Language,” *Transactions on Programming Languages and Systems*, 9:2, pp. 390–407, July, 1987 (Published Research Paper)
  19. Berry, D.M., Yavne, N., Yavne, M. “Application of Program Design Language Tools to Abbott’s Method of Program Design by Informal Natural Language Descriptions,” *Journal of Systems and Software*, 7:3, pp. 221–248, September, 1987 (Published Research Paper)
  20. Arbab, B., Berry, D.M. “Operational and Denotational Semantics of Prolog,” *Journal of Logic Programming*, 4:4, pp. 309–330, December, 1987 (Published Research Paper)

21. Abe (néé Takata), K.K. and Berry, D.M. “indx and findphrases, A System for Generating Indices for Ditröff Documents,” *Software—Practice & Experience*, 19:1, pp. 1–34, January, 1989 (Published Research Paper)
22. Becker, Z. and Berry, D.M., “triröff, An Adaptation of the UNIX ditröff for Formatting Tri-Directional Text,” *Electronic Publishing, Origination, Dissemination, and Design*, 2:3, pp. 119–142, 1990 (Published Research Paper)
23. Habusha, U. and Berry, D.M. “vi.iv, a Bi-Directional Version of the vi Full-Screen Editor,” *Electronic Publishing, Origination, Dissemination, and Design*, 3:2, pp. 65–91, 1990 (Published Research Paper)
24. Aguilera, C. and Berry, D.M. “The Use of a Repeated Phrase Finder in Requirements Extraction,” *Journal of Systems and Software*, 13:3, pp. 209–230, 1991 (Published Research Paper)
25. Maarek, Y., Berry, D.M., and Kaiser, G.E., “An Information Retrieval Approach For Automatically Constructing Software Libraries,” *IEEE Transactions on Software Engineering*, 17:8, pp. 800–813, 1991 (Published Research Paper)
26. Lor, K.-W.E. and Berry, D.M. “Automatic Synthesis of SARA Design Models from System Requirements,” *IEEE Transactions on Software Engineering*, 17:12, pp. 1229–1239, 1991 (Published Research Paper)
27. Srouji, J. and Berry, D.M. “Arabic Formatting with ditröff/ffortid,” *Electronic Publishing, Origination, Dissemination, and Design*, 5:4, pp. 163–208, December, 1992 (Published Research Paper)
28. Arbab, B., Berry, D.M. “Some Comments on ‘A Denotational Semantics for Prolog’,” *Transactions on Programming Languages and Systems*, 16:3, pp. 605–606, May 1994 (Published Short Communication)
29. Schwarz, A., Berry, D.M., and Shaviv, E. “Representing and Solving the Automated Building Design (ABD) Problem,” *CAD Journal*, 26:9, pp. 689–698, September, 1994 (Published Research Paper)
30. Schwarz, A., Berry, D.M., and Shaviv, E. “On the Use of the Automated Building Design (ABD) System,” *CAD Journal*, 26:10, pp. 731–745, October, 1994 (Published Research Paper)
31. Berry, D.M. “The Importance of Ignorance in Requirements Engineering,” *Journal of Systems and Software*, 28:2, pp. 179–184, 1995 (Published Controversy Paper)
32. Goldin, L. and Berry, D.M., “AbstFinder, A Prototype Natural Language Text Abstraction Finder for Use in Requirements Elicitation,” *Automated Software Engineering*, 4:4, pp. 375–412, October, 1997 (Published Research Paper)
33. Berry, D.M. “Software and House Requirements Engineering: Lessons Learned in Combatting Requirements Creep,” *Requirements Engineering Journal*, 3:3&4, pp. 242–244, 1999 (Published Viewpoint Paper)
34. Berry, D.M. “Stretching Letter and Slanted-Baseline Formatting for Arabic, Hebrew, and Persian with ditröff and Dynamic POSTSCRIPT Fonts,” *Software—Practice & Experience*, 29:15, pp. 1417–1457, 1999 (Published Research Paper)
35. Berry, D.M., “Formal Methods, the Very Idea, Some Thoughts on Why They Work When They Work,” *Electronic Notes in Theoretical Computer Science*, 25, 1999, (Published Extended Abstract)  
<http://www.elsevier.nl/locate/entcs/volume25.html>

36. Ravid, A. and Berry, D.M., "A Method for Extracting and Stating Software Requirements that a User Interface Prototype Contains," *Requirements Engineering Journal*, 5:4, pp. 225–241, 2000 (Published Research Paper)
37. Berry, D.M., "Formal Methods, the Very Idea, Some Thoughts on Why They Work When They Work," *Science of Computer Programming*, 42:1, pp. 11–27, January 2002 (Published Research Paper)
38. Berry, D.M., "The Importance of Ignorance in Requirements Engineering: An Earlier Sighting and a Revisitation," *Journal of Systems and Software*, 60:1, pp. 83–85, 2002 (Published Letter to Editor)
39. Berry, D.M. "Understanding the Beginning of *Genesis*: Just How Many Beginnings Were There?," *Jewish Bible Quarterly*, 31:2, pp. 90–93, 2003 (Published Research Paper)
40. Berry, D.M. and Tichy, W.F., "Comments on 'Formal Methods Application: an Empirical Tale of Software Development'," *IEEE Transactions on Software Engineering*, SE-29:6, pp. 567–571, June 2003 (Published Note)
41. Berry, D.M., "More Requirements Engineering Adventures with Building Contractors," *Requirements Engineering Journal*, 8:2, pp. 142–146, 2003 (Published Viewpoint Paper)
42. Berry, D.M., Daudjee, K., Dong, J., Fainchtein, I., Nelson, M.A., Nelson, T., Ou, L., "User's Manual as a Requirements Specification," *Requirements Engineering Journal*, 9:1, pp. 67–82, February, 2004 (Published Research Paper)
43. Breitman, K.K., Leite, J.C.S.P., and Berry, D.M., "Supporting Scenario Evolution," *Requirements Engineering Journal*, 10:2, pp. 112–131, 2005 (Published Research Paper)
44. Ramos, I., Berry, D.M., and Carvalho, J.A., "Requirements Engineering for Organizational Transformation," *Information & Software Technology*, 47:7, pp. 479–495, 2005 (Published Research Paper)
45. Ramos, I. and Berry, D.M., "Social Construction of Information Technology Supporting Work," *Annals of Cases on Information and Technology*, Volume VII, No 3, pp. 1–17, July-Sept. 2005 (Published Research Paper)
46. Ramos, I. and Berry, D.M., "Is Emotion Relevant to Requirements Engineering?" *Requirements Engineering Journal*, 10:3, pp. 238–242, November 2005 (Published Viewpoint Paper)
47. Mich, L., Anesi, C., and Berry, D.M., "Applying a Pragmatics-Based Creativity-Fostering Technique to Requirements Elicitation," *Requirements Engineering Journal*, Special Issue with Best Papers from REFSQ'04, 10:4, pp. 262–275, December 2005 (Published Research Paper)

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

1. Sobczak, A. and Berry, D.M., "Distributed Priority Ranking of Strategic Preliminary Requirements for Management Information Systems in Economic Organizations," *Information & Software Technology*, 2006 (Research Paper)

*Contributions to Refereed Journals (submitted)*

*Contributions to Refereed Conferences and Symposia*

1. Berry, D.M. "Introduction to Oregano," *Proc. of the ACM Symposium on Data Structures in Programming Languages, SIGPLAN Notices*, pp. 171–190, February 1971 (Published Research Paper)
2. Berry, D.M. "Block Structure: Retention vs. Deletion," *Proc. of the 3rd Annual ACM Symposium on Theory of Computing*, pp. 86–100, May 1971 (Published Research Paper)
3. Berry D.M. "The Equivalence of Models of Tasking," *Proc. of the ACM Symposium on Proving Assertions about Programs, SIGPLAN Notices*, pp. 170–190, January 1972 (Published Research Paper)
4. Berry, D.M., Chirica, L., Johnston, J.B., Martin, D.F., Sorkin, A. "On the Time Required for Retention," *Proc. of the ACM Symposium on High Level Language Computer Architecture*, pp. 165–178, November 1973 (Published Research Paper)
5. Berry, D.M. "The Use of Information Structure Models in Programming and in Teaching of Programming Language," *Proc. of the 2nd Jerusalem Conf. on Information Technology*, pp. 483–496, July 1974 (Published Tutorial Paper)
6. Lucena, C.J., Berry, D.M. "Towards a Definition of Structured Programming," *Proc. of ACM National Conference*, pp. 635–640, November 1974 (Published Research Paper)
7. Berry, D.M., Erlich, Z., Lucena, C.J. "Correctness of Data Representations: Pointers in High Level Languages," *Proc. of the Conf. on Data: Abstraction, Definition and Structures*, pp. 115–119, March 1976 (Published Research Paper)
8. Berry, D.M., Campos, I., Hooper, R., Kampe, M., Kemmerer, R., Rhodes, M. "An Experience in Group Structured and Modular Programming: Conclusions and Recommendations," *Proc. of the International Symposium on Methodologies for the Design and Construction of Software and Hardware Systems*, pp. 70–71, Rio de Janeiro, July 1976 (Published Research Paper)
9. Berry, D.M., Erlinger, M., Johnston, J.B., Von Staa, A. "Models of Hierarchical Machine Support," in E. J. Neuhold (ed.), *Formal Descriptions of Programming Concepts*, pp. 557–588, Amsterdam: North Holland, 1978 (Published Research Paper)
10. Penedo, M.H., Berry, D.M. "The Use of a Module Interconnection Language in the Sara System Design Methodology," *Proc. of the Fourth International Conference on Software Engineering*, pp. 294–307, Munich, W. Germany, September 1979 (Published Research Paper)
11. Berry, D.M., Berry, O. "The Programmer-Client Interaction in Arriving at Program Specifications: Abstract Data Typing, Strong Typing, and Jewish Motherhood," *Proc. of II Conferencia Nacional en Sistemas de Computacion*, pp. 13–34, Santiago, Chile, August 1980 (Published Research Paper)
12. Penedo, M.H., Berry, D.M., Estrin, G. "An Algorithm to Support Code-Skeleton Generation for Concurrent Systems," *Proc. of 5th International Conference on Software Engineering*, pp. 125–134, San Diego, CA, March 1981 (Published Research Paper)
13. Linden, N.M., Yavne, M., Berry, D.M. "Parameterization and Abstract Data Types in a Program Design Language: The Design of 'Software Development Processor'," *Actas de la Primera Conferencia Internacional en Ciencias de la Computacion*, pp. 160–190, Santiago, Chile, August 1981 (Published Research Paper)

Paper)

14. Berry, D.M. "The Application of the Formal Development Methodology to Data Base Design and Integrity Verification," *Proc. of Fourth Israel Conference on Software Quality Assurance*, pp. 42–47, Tel Aviv, Israel, October, 1982 (Published Research Paper)
15. Berry, D.M., Berry, O. "The Programmer-Client Relationship in Arriving at Program Specifications: Guidelines and Linguistic Requirements," *Proc. IFIP Working Conference on System Description Methodologies*, pp. 275–292, Kecskemet, Hungary, May, 1983 (Published Research Paper)
16. Berry, D.M. "On the Application of Ada and its Tools to the Information Hiding Decomposition Methodology for Design of Software Systems," *Proc. of IFIP Working Conference on Methodology for Computer System Design*, pp. 307–321, Lille, France, September, 1983 (Published Research Paper)
17. Buchman, C., Berry, D.M. "DITROFF/FFORTID: An Adaptation of the UNIX™ DITROFF for Formatting Bi-Directional Text," *Proc. of Fourth International Jerusalem Conference on Information Technology*, pp. 548–553, May, 1984 (Published Research Paper)
18. Berry, D.M., Yavne, N., Yavne, M. "On the Requirements for a Program Design Language," *Proc. of International Workshop on Models and Languages for Software Specification and Design*, pp. 18–21, March, 1984 (Published Position Paper)
19. {Berry, D.M., Wing, J.M.,} "Specification and Prototyping: Some Thoughts on Why They Are Successful," *Proceedings of TAPSOFT Conference*, pp. 117–128, Berlin, March 1985 (Published Research Paper)
20. Berry, D.M. "An Ina Jo™ Proof Manager for the Formal Development Method," *Proc. of VERkshop III, A Formal Verification Workshop, Software Engineering News*, 10:4, pp. 19–25, August 1985 (Published Research Paper)
21. Lor, K.W.E, Berry, D.M. "A Requirement-Driven System Design Environment," *Proceedings of the Second International Conference on Computer Applications*, Beijing, PRC, June, 1987 (Published Research Paper)
22. Ip, C.H, Berry, D.M., Chow, K.P. "CWPR, a Chinese/Japanese Word-Processing System for Use With the UNIX™ Device-Independent TROFF System," *Proceedings of the Second International Conference on Computer Applications*, Beijing, PRC, June, 1987 (Published Research Paper)
23. Becker, Z. and Berry, D.M., "ditroff/ffortid/r, An Adaptation of the UNIX ditroff for Formatting Tri-  
o  
f  
f  
Directional Text," Chinese Computing Seminar '88, Singapore, 27–28 May, 1988 (Published Research Paper)
24. Ben-Ari, D., Rimon, M., Berry, D.M., "Translational Ambiguity Rephrased," *Proceedings of Second International Conference on Theoretical and Methodological Issues in Machine Translation of Natural Languages*, Pittsburg, PA, 12–14 June, 1988 (Published Research Paper)
25. Maarek, Y.S. and Berry, D.M. "The Use of Lexical Affinities in Requirements Extraction," *Proceedings of the Fifth International Workshop on Software Specification and Design*, Pittsburgh, PA, May, 1989

(Published Research Paper)

26. Habusha, U. and Berry, D.M. “vi.iv, a Bi-Directional Version of the vi Full-Screen Editor,” *Proceedings of 1990 International Conference on Computer Processing of Chinese and Oriental Languages*, Changsha, Hunan, PR China, April 1990 (Published Research Paper)
27. Wolfman, A.P. and Berry, D.M., “flo—A Language for Typesetting Flowcharts,” *Electronic Publishing*, Washington, D.C., September, 1990 (Published Research Paper)
28. Allon, G. and Berry, D.M. “MINIX.XINIM, Towards a Bi-Directional, Bi-Lingual UNIX Operating System,” *Proceedings of the Soviet UNIX Users’ Group Workshop on UNIX and Applications*, November 25–28, 1991 (Published Research Paper)
29. Goldin, L. and Berry, D.M. “AbstFinder, A Prototype Abstraction Finder for Natural Language Text for Use in Requirements Elicitation: Design, Methodology, and Evaluation,” *Proceedings of the First International Conference on Requirements Engineering*, 19–21 April, 1994 (Published Research Paper)
30. Sequerra-Breitman, K. and Berry, D.M. “The Development of Multimedia Hypermedia Applications as Evolutionary, Prototyping-Based Requirements Engineering,” *Proceedings of the Ninth Brazilian Symposium on Software Engineering (SBES)*, Recife, PE, Brazil, 3–6 October, 1995 (Published Research Paper)
31. Jehuda, J., G. Koren, and Berry, D.M. “A Time-Sharing Architecture for Complex Real-Time Systems,” *Proceedings of the First IEEE International Conference on Engineering of Complex Computer Systems*, Ft. Lauderdale, Florida, USA, 6–10 November, 1995 (Published Research Paper)
32. Jehuda, J. and Berry, D.M. “A Top Layer Design Approach for Adaptive Real-Time Software,” *Proceedings of the Twentieth IFAC/IFIP Workshop on Real-Time Programming*, Ft. Lauderdale, Florida, USA, 10 November, 1995 (Published Research Paper)
33. Berry, D.M. and Weber, M. “A Pragmatic, Rigorous Integration of Structural and Behavioral Modeling Notations,” *Proceedings of the First IEEE International Conference on Formal Engineering Methods (ICFEM’97)*, Hiroshima, Japan, 12–14 November 1997 (Published Research Paper)
34. Berry, D.M. “The Safety Requirements Engineering Dilemma,” *Proceedings of the Ninth International Workshop on Software Specification and Design (IWSSD’98)*, Ise Shima, Japan, 16–18 April 1998 (Position Paper)
35. Berry, D.M. and Kamsties, E. “The Dangerous ‘All’ in Specifications,” *Proceedings of the Tenth International Workshop on Software Specification and Design (IWSSD’00)*, San Diego, CA, 5–7 November 2000 (Position Paper)
36. Kamsties, E., Berry, D.M., and Paech, B., “Detecting Ambiguities in Requirements Documents Using Inspections,” *Workshop on Inspections in Software Engineering (WISE’01)*, pp. 68–80, Paris, France, Software Quality Research Lab, McMaster University, Hamilton, Canada, July 23, 2001 (Published Research Paper) <http://www.cas.mcmaster.ca/wise/wise01/c191.html#AEN191>
37. Berry, D.M., “Requirements for Maintaining Web Access for Hearing-Impaired Individuals,” *Third International Workshop on Web Site Evolution (WSE’01)*, pp. 33–41, Florence, Italy, 10 November 2001 (Published Research Paper)
38. Ramos, I., Berry, D.M., and Carvalho, J.A., “The Role of Emotion, Values, and Beliefs in the Construction of Innovative Work Realities,” D. Bustard, W. Liu, and R. Sterritt (eds.), *Soft-Ware 2002: Computing in an*

- Imperfect World*, LNCS 2311, Springer 2002, pp. 300–314, *Proceedings of First International Conference, Soft-Ware 2002*, Belfast, Northern Ireland, 8–10 April 2002 (Published Research Paper)
39. Berry, D.M., “The Inevitable Pain of Software Development, Including of Extreme Programming, Caused by Requirements Volatility,” *Proceedings of the International Workshop on Time Constrained Requirements Engineering (T-CRE)*, pp. 9–19, Essen, Germany, 9 September, 2002 (Published Research Paper)
  40. Berry, D.M., “The Inevitable Pain of Software Development: Why There Is No Silver Bullet,” M. Wirsing, S. Balsamo, A. Knapp (eds.), *Monterey 2002, Radical Innovation of Software and Systems Engineering in the Future*, Workshop Proceedings, pp. 28–47, Venice, Italy, 7–11 October 2002 (Published Research Paper)
  41. Covvey, H.D., Zitner, D., Berry, D.M., Cowan, D.D., and Shepherd, M., “Formal Structure for Specifying the Content and Quality of the Electronic Health Record,” *Proceedings of the International Requirements Engineering Conference (RE’03)*, pp. 162–168, Monterey, CA, U.S.A., 8–12 September 2003 (Published Research Paper)
  42. Denger, C., Berry, D.M., and Kamsties, E., “Higher Quality Requirements Specifications through Natural Language Patterns,” *Proceedings of the IEEE International Conference on Software-Science, Technology & Engineering (SwSTE’03)*, pp. 80–89, Herzliya Pituach, Israel, 4–6 November 2003 (Published Research Paper)
  43. Berry, D.M., “The Inevitable Pain of Software Development: Why There Is No Silver Bullet,” M. Wirsing, S. Balsamo, A. Knapp (eds.), *Radical Innovation of Software and Systems Engineering in the Future, Proceedings of the 2002 Monterey Conference*, Selected Papers, pp. 50–74, LNCS 2941, Springer, 2004 (Published Research Paper)
  44. Mich, L., Anesi, C., and Berry, D.M., “Requirements Engineering and Creativity: An Innovative Approach Based on a Model of the Pragmatics of Communication,” *Proceedings of the Tenth Anniversary International Workshop on Requirements Engineering: Foundation for Software Quality*, pp. 129–143, Essener Informatik Beiträge, Riga Latvia, 7–8 June 2004, (Published Research Paper)
  45. Berry, D.M., Cheng, B.H.C., and Zhang, J., “The Four Levels of Requirements Engineering for and in Dynamic Adaptive Systems,” *Workshop on the Design and Evolution of Autonomic Application Software*, St. Louis, MO, U.S.A., 2005 (Published Research Paper)
  46. Berry, D.M., Cheng, B.H.C., and Zhang, J., “The Four Levels of Requirements Engineering for and in Dynamic Adaptive Systems,” *Proceedings of the Eleventh International Workshop on Requirements Engineering: Foundation for Software Quality*, pp. 95–100, Porto, Portugal, 13–14 June, 2005 (Published Research Paper)
  47. Hazan, C., Berry, D.M., Leite, J.C.S.P., “Aplicação da Contagem Estimativa de Pontos de Função para Apoiar a Análise de Requisitos,” *Workshop em Engenharia de Requisitos*, pp. 197–208, Porto Portugal, 13–14 June, 2005 (Published Research Paper)
  48. Svetinovic, D., Berry, D.M., Godfrey, M., “Concept Identification in Object-Oriented Domain Analysis: Why Some Students Just Don’t Get It,” *Proceedings of the International Requirements Engineering Conference (RE’05)*, pp. 189–198, Paris, France, 29 August–2 September 2005 (Published Research Paper)
  49. Svetinovic, D., Berry, D.M., Godfrey, M.W., “Increasing Quality of Conceptual Models: Is Object-Oriented Analysis That Simple?,” *Proceedings of the ICSE 2006 Workshop on Role of Abstraction in Software Engineering*, Shanghai, China, 21 May 2006 (Published Position Paper)

50. Mich, L., Franch, M., Berry, D.M., “Classifying Web-Application Requirement Ideas Generated Using Creativity Fostering Techniques According to a Quality Model for Web Applications,” *Proceedings of the Twelfth International Workshop on Requirements Engineering: Foundation for Software Quality*, Luxembourg, 5–6 June 2006 (Published Research Paper)
51. Berry, D.M. Bucchiarone, A., Gnesi, S., Lami, G. Trentanni, G., “A New Quality Model for Natural Language Requirements Specifications,” *Proceedings of the Twelfth International Workshop on Requirements Engineering: Foundation for Software Quality*, Luxembourg, 5–6 June 2006 (Published Research Paper)
52. So, J., Berry, D.M., “Experiences of Requirements Engineering for Two Consecutive Versions of a Product at VLSC,” *Proceedings of the International Requirements Engineering Conference (RE’06)*, September, 2006 (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., “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)

*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 Oregon,” *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
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, <http://marisd.weberdev.com> (Published Lecture Slides)
27. Berry, D.M. and Kamsties, E., “Clarifying Ambiguity,” *IEEE Software* 23:4, pp. 8–9, July/August, 2006 (Letter to Editor)

*Contributions to Non-refereed Conferences, Symposia, Quarterlies, and Journals* (accepted, but not yet appeared)

1. Berry, D.M., “A Theory About the True Origins of William Shakespeare and *Hamlet*,” *Journal of Irreproducible Results*, 2006 (Scientific Satire and Short Story)

#### *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
52. Srouji, J. and Berry, D.M. "Arabic Formatting with ditroff/ffortid," Technical Report, Faculty of Computer Science, Technion, Haifa, Israel, 1993
53. Berry, D.M. "Academic Legitimacy of the Software Engineering Discipline," Technical Report CMU/SEI-92-TR-34, ESC-TR-92-034, Software Engineering Institute, Carnegie Mellon University, Pittsburgh, PA 15213, 1992
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
55. Jehuda, J. and Berry, D.M. "A Top-Layer Architecture for ATLAS," Technical Report EE PUB 946, Faculty of Electrical Engineering, Technion, Haifa, Israel, November, 1994
56. Jehuda, J. and Berry, D.M. "A Top-Layer Design Approach for Adaptive Real-Time Software," Technical Report EE PUB 966, Faculty of Electrical Engineering, Technion, Haifa, Israel, May, 1995

57. Jehuda, J., G. Koren, and Berry, D.M. "A Time-Sharing Architecture for Complex Real-Time Systems," Technical Report EE PUB 965, Faculty of Electrical Engineering, Technion, Haifa, Israel, May, 1995
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
60. Hornreich, H.I. and Berry, D.M. "A Case Study of Software Reengineering," Technical Report, Faculty of Computer Science, Technion, Haifa, Israel, 1998
61. Berry, D.M. and Kamsties, E. "The Dangerous 'All' in Specifications," Technical Report, University of Waterloo, Waterloo, ON, Canada, July, 2000
62. Berry, D.M. "Appliances and Software: The Importance of the Buyer's Warranty and the Developer's Liability in Promoting the Use of Systematic Quality Assurance and Formal Methods," Technical Report, University of Waterloo, Waterloo, ON, Canada, July, 2000
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
64. Berry, D.M., Daudjee, K., Dong, J., Nelson, M.A., and Nelson, T., "User's Manual as a Requirements Specification," Technical Report CS-2001-17, Computer Science Department, University of Waterloo, Waterloo, Ontario, Canada, 2001
65. Kamsties, E., Berry, D.M., and Paech, B., "Detecting Ambiguities in Requirements Documents Using Inspections," Technical Report, University of Waterloo, Waterloo, ON, Canada, June, 2001
66. Berry, D.M., "Understanding the Beginning of *Genesis*: Just How Many Beginnings Were There?," Technical Report, University of Waterloo, Waterloo, ON, Canada, September, 2001
67. Berry, D.M., Kamsties, E., and M.M. Krieger, "From Contract Drafting to Software Specification: Linguistic Sources of Ambiguity, A Handbook," Technical Report, School of Computer Science, University of Waterloo, Waterloo, Ontario, Canada, 2003
68. Berry, D.M., "The Inevitable Pain of Software Development: Why There Is No Silver Bullet," Technical Report, School of Computer Science, University of Waterloo, Waterloo, Ontario, Canada, 2003
69. Kwan, I.H. and Berry, D.M., "Specify First or Build First? Empirical Studies of Requirements Engineering Activities: A Survey," Technical Report, School of Computer Science, University of Waterloo, Waterloo, Ontario, Canada, 2004

*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, (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

#### **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, Simon, "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)

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. Hazan, Claudia, "Estimative Function Point Counting as a Surrogate Requirements Engineering Process" Co-advised, (PUC, Rio de Janeiro)
2. Daugulis, Arnis, "Requirements Engineering from a CIO's Perspective" Co-advised, (Royal Institute of Technology, Sweden)
3. Tjong, Sri Fatima, Externally co-advised, "Avoiding Ambiguity in Requirements Specifications" (University of Nottingham Malaysia Campus)

#### **Current Master's Students**

1. So, Joel, Co-advised (Waterloo)
2. Chodos, David, "Creating a Web-based Statistical Tool" Co-advised, (Waterloo)

#### *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., 198 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, 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., 1985
2. University of Waterloo, Canadian NSERC, CD\$87,000, “Requirements Engineering,” Berry, D.M., 2000–2004
3. University of Waterloo, Canadian NSERC, CD\$173,500, “Requirements Engineering,” Berry, D.M., 2004–2009

*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.