

Daniel A. Ford

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US Citizen, Canadian Citizen

Employment

April 2011 – Present, **Co-Founder, Paupt Labs LLC** (Start-up), New York.
May 1994 – March 2011, **Research Staff Member, Department of Computer Science, IBM Almaden Research Center**, San Jose, CA. Research Scientist. Manager. Executive Staff.
July 1992 – May 1994, **Visiting Scientist, Computer Science, IBM Almaden Research Center**, San Jose, CA.
November 1991 – May 1992, **Member of Technical Staff, Bell-Northern Research (BNR)**, Ottawa, Ontario.
January 1991 – November 1991, **Founder, Spin Software Research** (Start-up), London, Ontario.
March 1990 – October 1990, **Director of Software Development, Algorithmics** (Start-up), Toronto, Ontario.
January 1986 – August 1986, **Programmer, Consumer Software** (Start-up), Vancouver, British Columbia.

Experience

Extensive experience in Corporate Operations, Intellectual Property, and Research and Development, at both the Fortune 100 Enterprise, and Start-up Venture levels.

Corporate operations experience includes legal structure and governance, as well as budgeting, accounting, personal and resource allocation. Also, extensive management experience and formal training (5+ years, Dept. Size: 22); global team management (Europe, Middle-East, Asia). HR experience and formal training including performance evaluations, team building, recruiting, retention, mentoring immigration visas, dispute resolution, etc. Also, customer and media relations experience(public presentations, sales calls, media interviews).

Intellectual Property experience includes independent patent specification authorship and prosecution, including personal USPTO credentials. Result: twenty-eight issued United States Patents. It also includes comprehensive, Enterprise-level, intellectual property protection training in patents, patent licensing, copyrights, trademarks, software licensing, and Non-Disclosure Agreements.

Research and Development experience includes pure Research activities such as creating novel, industry changing, technologies, collaborating with university researchers, participating on conference committees, applying for, and receiving, research grants, publishing papers and filing patents. Development experience is grounded in producing production-level software using the latest tools, technologies, and best practices. Experience as open source (Eclipse, MDHT) project leader and committer. In addition, R&D experience includes electronic, and mechanical, design and fabrication expertise.

Java, C++, C, Scala, AspectJ, Python, Objective-C, JavaScript, Perl, HTML5, CSS3, jQuery, jQM, REST, JsRender, JSP, JUnit, Mockito, EMF, CDO, UML, Eclipse, OSGi, Spring, Camel, JMS, Android, iOS, Maven, Ant, Buckminster, Jenkins/Hudson, SWT, JFace, SQL, MySQL, NoSQL, MongoDB, Git, SVN, CVS, Xcode, COCOA, YAML, JSON, XML, RDF, Windows, Linux, UNIX, MacOSX, EC2, OpenStack, Vagrant, V.Box, Ansible, NT2I, etc.

Education

Ph.D., Computer Science, University of Waterloo, Waterloo, Ontario. 1991.
M.Sc., Computer Science, University of British Columbia, Vancouver, British Columbia. 1984.
B.Sc. (Hons. First Class), Computer Science, Simon Fraser University, Burnaby, British Columbia. 1983.
Certificate in Bioinformatics, University of California at Santa Cruz Extension, (In progress)
MIT 6.002x Circuits and Electronics (2013-2014, In progress).

Management Training

IBM Manager's School. IBM Media Relations Training.
IBM Management training "Managing a Culturally Diverse Workforce." & "Giving and receiving feedback."

Patents

13781998, "[Redacted]" March 1, 2013.
13758668, "[Redacted]" February 4, 2013.
2011/0137679, "**Method to Transform Clinician Order Entry**," June 9, 2011.
7,761,341, "**Medium, method, and system for automatic bidding across multiple auction sites**," July 20, 2010.
7,689,202, "**System and method for providing personal and emergency service hailing in wireless network**," March 30, 2010.
7,529,537, "**System and method for providing personal and emergency service hailing in wireless network**," May 5, 2009.

- 7,440,910, "System and method for renewing business, professional and personal contacts," October 21, 2008.
- 7,400,711, "System and technique for dynamically interjecting live advertisements in the context of real-time isochronous (telephone-model) discourse," July 15, 2008. (Google 9/13/2011)
- 7,302,643, "A system and method for scheduled events to subscribe to live information topics," November 27, 2007.
- 7,259,694, "Wireless communication system and method to provide geo-spatial related event data," August 21, 2007. (eBay 12/26/2012)
- 7,251,628, "Automated purchasing agent system and method," July 31, 2007. (eBay 12/26/2012)
- 7,003,735, "Calendar desktop graphical user interface (GUI) for computer workstations, personal computers, and personal digital assistants," February 21, 2006.
- 6,978,246, "System and method for matching entities utilizing an electronic calendaring system," December 20, 2005.
- 6,823,190, "System and method to anonymously test for proximity of mobile users without revealing individual phase space coordinates," November 23, 2004. (Lenovo 8/4/2005)
- 6,748,448, "High Performance Internet Storage Access Scheme," June 8, 2004.
- 6,606,644, "System and technique for dynamic information gathering and targeted advertising in a web based model using a live information selection and analysis tool," August 12, 2003.
- 6,606,643, "Method of automatically selecting a mirror server for web-based client-host interaction," August 12, 2003. (Google 7/12/2011)
- 6,604,079, "System and method for feeding e-mail with calendar data," August 5, 2003.
- 6,603,489, "Electronic calendaring system that automatically predicts calendar entries based upon previous activities," August 5, 2003. (Google 7/12/2011)
- 6,529,136, "Group notification system and method for implementing and indicating the proximity of individuals or groups to other individuals or groups," March 4, 2003. (eBay 12/26/2012)
- 6,515,857, "Visual heat sink for computers and method of use," February 4, 2003.
- 6,480,830, "Active calendar system," November 12, 2002.
- 6,446,004, "System and method for implementing proximity of location driven activities," September 3, 2002.
- 6,182,085, "Collaborative team crawling: Large scale information gathering over the Internet," January 30, 2001.
- 5,963,947, "Technique of dynamically adding functionality from a client to manipulated data at a server," October 5, 1999.
- 5,777,615, "Multiple Display Pointers for Computer Graphical User Interfaces," July 7, 1998.
- 5,699,534, "Multiple Display Pointers for Computer Graphical User Interfaces," December 16, 1997.
- 5,586,243, "Multiple Display Pointers for Computer Graphical User Interfaces," December 17, 1996.
- 5,530,850, "Data Storage Library Array with Log-Structured File System which allows simultaneous write and garbage collection," June 25, 1996.
- 5,497,457, "Redundant Arrays of Independent Libraries of dismountable media with parity logging," March 5, 1996.
- 5,440,686, "Selecting a data unit candidate to be demoted to a backing store from a front store based upon thresholds individual to each of the data candidates," August 8, 1995.
- Also, a similar number of foreign patents issued from Japan, Europe, China, Taiwan, and other countries.
- IBM Master Inventor.**

Refereed Papers

- Ford, D.A., "Model-Driven Virtualization of Healthcare Records," International Conference on Health Informatics, HEALTHINF-2011, Rome, Italy, (January 26-29, 2011).
- Hulse C.L., Conant J.L., Kaufman J.H., Edlund S.B., Ford D.A., "Development and Utilization of a Spatial and Temporal Modeling System to Investigate Disease Outbreaks in Vermont", PHIN 2009.
- Edlund, S., Bromberg, M., Chodick, G., Douglas, J., Ford, D.A., Kaufman, Z., Lessler, J., Marom, R., Mesika, Y., Ram, R., Shalev, V., Kaufman, J., "A spatiotemporal model for influenza," HIC 2009, Canberra, Australia. (August 2009) (**Top Rated Paper**)
- Lessler, J., Kaufman, J.H., Ford, D.A., Douglas, J.V. (2009), "The Cost of Simplifying Air Travel When Modeling Disease Spread," PLoS ONE: e4403. doi:10.1371/journal.pone.0004403 (February 6, 2009).
- Kaufman, J.H., Conant, J.L., Ford, D.A., Kirihata, W., Jones, B., Douglas, J.V., "Assessing the Accuracy of Spatiotemporal Epidemiological Models", BioSecure 2008, Raleigh NC, (2 Dec 2008).
- Ford, D.A., Kaufman, J.H., Eiron, I., "An extensible spatial and temporal epidemiological modelling system", International Journal of Health Geographics 2006, 5:4 (17 Jan 2006).
- Kaufman, J.H., Eiron, I., Deen, G., Ford, D.A., et. al., "From Regional Healthcare Information Organizations to a National Healthcare Information Infrastructure", JAHIMA, 2:10, December 5, 2005.
- Edlund, S., Ford, D.A., Kambhampati, S., Krishna, V., "Extending Groupware for OLAP", Fifth International Conference on Enterprise Information Systems (ICEIS), pp. 47-54, Angers, France, April, 2003. (**Best Paper Award: Database and Information System integration**)

- Ford, D.A., Ruvolo, J., Edlund, S., Myllymaki, J., Kaufman, J., Jackson, J., Gerlach, M. “**Tempus Fugit: A system for making semantic connections**”, International Conference on Information and Knowledge Management (CIKM), Atlanta, November 2001.
- Kaufman, J., Ruvolo, J., Ford, D.A., “**Tempus Fugit and the Need for an e-Social Contract**”, 5th International Conference on Autonomous Agents, Montreal Canada W. 11, pg 77, May, 2001.
- Teng, S., Lu, Q., Eichstaedt, M., Ford, D. A., and Lehman, T., “**Collaborative Web Crawling: Information Gathering/Processing over Internet**”, Hawaii International Conference on System Sciences, Hawaii, January 1999.
- Wyckoff, P., McLaughry, S. W., Lehman, T.J., Ford, D. A., “**T Spaces**”, IBM Sys. Journal, Vol. 37, No. 3, 1998.
- Lu, Qi, Eichstaedt, M., Ford, D. A., “**Efficient profile matching for large scale Webcasting**”, Computer Networks and ISDN Systems. Vol. 30, pp.443-455, 1998.
- Lu, Q., Eichstaedt, M., Ford, D. A., “**Efficient Profile Matching for Large Scale Webcasting**”, The seventh international world wide web conference, Brisbane, Qld, April 14-18, 1998.
- Ford, D.A., Morris, R.J.T., Bell, A.E., “**Starfish: A tertiary storage system**”, Parallel Computing.
- Ford, D.A., “**Dismountable Media Management in Tertiary Storage Systems**”, IEEE Transactions on Knowledge and Data Engineering, Vol. 9, No. 2, March-April 1997, pp. 350-351.
- Ford, D.A., “**Jive: A Java Decompiler**”, Accepted by IEEE Computer, later withdrawn from publication. (Also IBM RJ10022, May 15, 1996.)
- Ford, D.A., Myllymaki, J., “**A Log-Structured Organization for Tertiary Storage**”, International Conference on Data Engineering 1996, New Orleans, LA., pp. 20-27.
- Ford, D.A., Morris, R.J.T., Bell, A.E., “**Redundant Arrays of Independent Libraries (RAIL): A Tertiary Storage System**”, Spring Comcon '96, Santa Clara, CA. pp. 80-285.
- Ford, D.A., Christodoulakis, S., “**Optimal Placement of High-Probability Randomly Retrieved Blocks on CLV Optical Discs**”, ACM TOIS, Vol. 9, No. 1, January 1991, pp. 1-30.
- Ford, D.A., Christodoulakis, S., “**Optimizing Random Retrievals for CLV format Optical Discs**”, VLDB Conference 1991, Barcelona, Spain, pp. 413-422.
- Christodoulakis, S., Ford, D.A., “**File Organizations and Access Methods for CLV Optical Discs**”, SIGIR Conference, Boston, MA. 1989, pp. 152-159.
- Christodoulakis, S. Elliot, K., Ford, D.A., Hatzilemonias, K. Ledoux, E., Leitch, M., Ng, R. “**Optical Mass Storage Systems and their Performance**”, Data Engineering Bulletin 11(1): 14-25 (1988).
- Christodoulakis, S., Ford, D.A., “**Performance Analysis and Fundamental Performance Trade Offs for CLV Optical Discs**”, SIGMOD Conference 1988, Chicago, IL. pp. 286-294.

Books

- “**Infectious Disease Informatics and Biosurveillance**,” Chapter 9: Modeling in Space and Time, A Framework for Visualization and Collaboration. Cheng, Zeng, et al (eds.), Springer, Netherlands., 2011.
- “**Enterprise Information Systems V**,” Chapter 10:Extending Groupware for OLAP, Springer Netherlands, pp. 85- 92. 2005.
- “**Agent supported cooperative work**,” Chapter 6: Active Calendars and the Need for the E-social Contract. Yiming Ye, Elizabeth Churchill, Kluwer Academic Publishers, 2003.
- “**Information Retrieval, Data Structures and Algorithms**,” Chapter 6: File Organizations for Optical Discs. Ed. Frakes, W.B., Baeza-Yates, R., Prentice Hall, 1992.

Posters

- Sundaresan, N., Ford, D.A., “**An Architecture for Summarizing the Web**”, The eight international World Wide Web conference (WWW8), Toronto, Ontario, May 11-14, 1999.
- Lu, Q. Kraft, R., Eichstaedt, M., Zodik, G., Pinter, R., Ford, D.A., Nicol, D., “**jCentral: Search the web for Java**”, The eight international world wide web conference (WWW8), Toronto, Ontario, May 11-14, 1999.
- Eichstaedt, M., Lu, Q., Teng, S-H. Ford, D., Manber, U., “**Outbound Information Analysis for Profiling and Active Email**”, The eight international World Wide Web conference (WWW8), Toronto, Ont., May 1999.

Technical Reports

- Lu, Q, Eichstaedt, M., Ford, D. A., **Efficient Profile Matching for Large Scale Webcasting**, IBM RJ 10118, 1998
- Ford, D. A., “**Jive: A Java Decompiler**”, IBM RJ10022, May 15, 1996.

Professional and University Interaction

- Current Conference Program Committees: HEALTHINF-2014 <http://www.healthinf.biostec.org/>
- Past Program Committees: Biosecure 2007, 2008, BioSurveillance 2007
- Eclipse Committer and Project Lead for the Open Source project STEM, <http://www.eclipse.org/stem>
- Committer for the Model-Driven Health Tools (MDHT) project, <https://mdht.projects.openhealthtools.org/>
- SUR Grant sponsor for MIT (2005). Clinic Advisory Committee for Harvey Mudd College (1999-2003).