

Garett Dworman, Ph.D.

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Professional Experience

Consultant – Knowledge Management Analysis and Design 1997 – Present

Project: Blue Shield of California (San Francisco, CA), Online Sales Tool integration (contracted with Liquid Agency, formerly Small Pond Studios)

Aided the integration of Online Sales Tool into Blue Shield's web site, MyLifePath.com, through the creation of an assessment and API overview of the tool. Presented design recommendations based on findings.

Project: Blue Shield of California (San Francisco, CA), eBusiness traffic flow analysis of MyLifePath.com (contracted with The Enosis Group)

Created analysis of online traffic flow into and through Blue Shield's web site, MyLifePath.com, to help improve search engine performance, augment presence in the online healthcare marketplace, and increase site registration.

Project: H5 Technologies, formerly Ejemoni, Inc. (San Francisco, CA), H5 profiler for unstructured text

Translated Business Development requirements and customer specifications into product design for Engineering team; Advised Executive Team on product design and strategy; Helped define technological specifications and assisted authorship of white papers.

Project: Wharton CIT (Philadelphia, PA), Course Registration Auction System

Assessed user interaction of multiple-round, discretely traded, sealed-bid auctions. Co-designed UML models and database architecture. Advised implementation of Java and SQL web application. *1999 Computerworld-Smithsonian Innovation Award Laureate*).

Senior Architect – Cytaq, Inc. San Jose, CA 2001 – 2002

- Product – An open, heterogeneous, fully distributed, and single-runtime middleware solution for enterprise services integration and business activity monitoring.
- Project – Vocabulary Translation System to enable peer-to-peer communications among heterogeneous enterprise resources.
- Responsibilities
 - Designed the mathematical model behind core technology including fully integrated meta-model and schema.
 - Designed and implemented Java module to translate semantics and formats of information between local resources and a global system model.
 - Designed global ontology platform for importing, exporting and editing vocabularies; managing of namespace domains; and creating local to global ontology mappings.
 - Advised and wrote analyses for executive marketing team on product design and strategy.
 - Led sales engineering effort that produced first beta-customer.
 - Wrote white papers on core technology.

Co-founder – Practical Reasoning, Philadelphia, PA 1997 to 2000

- Invented core technology – Homer and Lewis pattern-oriented information access tools and MOTC data mining visualization tool.
- Project – The Core of Discovery information access suite.
- Responsibilities – Managed product development team; Designed and developed systems; Led marketing and sales effort.

Consultant – PriceWaterHouseCoopers (formerly Coopers & Lybrand), Boston, MA 1989 to 1992

- Clients – Back-office operations of an international Wall Street trading firm; Home banking system of a commercial bank; Claims renewal processing of a national insurance company; Sales decisions of international retail chain.
- Projects – Dynamic process simulator for operations analysis/redesign and productivity improvement; Expert system with GUI interface for aiding retail sales decisions; Executive information system with user-based information model.
- Responsibilities – Interviewed clients to develop interface design and information models; Designed and developed systems; Wrote user documentation; Developed and led end-user tutorials; Developed and delivered demonstration environments.

Programmer – Bolt Beranek and Newman, Cambridge, MA 1987 to 1989

- Projects – Genetic algorithm automatic scheduler; Fault analysis expert system; Geographical environmental impact system for designing air force training routes.
- Responsibilities – Implemented object-oriented database manager, real-time signal manipulation routines, data transfer routines, and interface to a geological database system.

Education**The Wharton School, University of Pennsylvania** December, 1999

- Ph.D. in Decision Sciences
- Dissertation: Pattern-Oriented Access to Document Collections
- Dean's Fellowship

Tufts University, Medford, MA 02144 May, 1987

- BS in Computer Science, College of Engineering, SUMMA CUM LAUDE
- BA in Philosophy, College of Liberal Arts, CUM LAUDE
- Concentration in Cognitive Science

Honors and Awards

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| Summer, 1999 | The Computerworld-Smithsonian Innovation Award Laureate |
| Spring, 1997 | Teaching commendation, University of Pennsylvania, Dean's Office |
| Summer, 1996 | <i>Fellowship</i> – Graduate Workshop on Computational Economics, Santa Fe Institute |
| Jan, 1995 | <i>Best Paper Award</i> , Decision Support and Knowledge-Based Systems, HICSS |
| Summer, 1992 | <i>Fellowship</i> – Comparative Approaches to Cognitive Science Program, Aix-en-Provence, France |
| 1991 – 1995 | <i>Dean's Fellow</i> , The Wharton School |
| May, 1987 | SUMMA CUM LAUDE, Tufts University |
| May, 1987 | PHI BETA KAPPA Honors Society |
| May, 1987 | "Class of 1898 Prize" For Excellence in Diverse Studies, Tufts University |
| Sept, 1986 | TAU BETA PI Honors Society |
| 1985 – 1986 | <i>Education for Public Inquiry and International Citizenship (EPIIC)</i> – Special Colloquium/Symposium on International Terrorism, Experimental College, Tufts Univ. |
| 1982 – 1987 | Dean's List, Tufts University |

Select Publications and Presentations

- Dworman, Garett, Steve O. Kimbrough and Charles Patch (2000), On Pattern-Directed Search of Archives and Collections, *Journal of the American Society for Information Science*, vol 51 (1):14-24.
- K. Balachandran, J. Buzydlowski, G. Dworman, S.O. Kimbrough, T. Shafer and W. Vachula (1999), MOTC: An Interactive Aid for Multidimensional Hypothesis Generation, *Journal of Management Information Systems*, vol. 16 (1):17-36.
- Dworman, Garett and Kati Geber (1999), "Innovations in Access," Presentation to The 1999 Museum Computer Network.
- Dworman, Garett (1998), "Pattern Discovery in Organizational Memory " 1999 Joint International Conference on Information Systems and Technology (CIST).
- Dworman, Garett (1998), "On Text-Oriented Technologies for Supporting Managerial Cognition," Presentation to The 1998 Symposium on Managerial and Organizational Cognition, Stern School of Business, New York University.
- Dworman, Garett, Steven O. Kimbrough, and James D. Laing (Winter, 1996), On Automated Discovery of Models Using Genetic Programming: Bargaining in a Three-Agent Coalition Game. *Journal of Management Information Systems*, vol. 12 (3):97-125.
- Dworman, Garett (April, 1996), Homer: A Pattern Discovery Support System. In *Common Ground: Human Factors in Computing Systems 1996 Conference Proceedings Companion* (Vancouver, Canada: ACM): 305.
- Dworman, Garett, Steven O. Kimbrough, and James D. Laing (January, 1995), On Automated Discovery of Models Using Genetic Programming in Game-Theoretic Contexts. In *Proceedings of HICCS 1995* (Los Alamitos, CA: IEEE Press): 428-438.

Winner of BEST PAPER AWARD in Decision Sciences.

Activities

- Lecturer
 - Computer Mediated Communication, Fall 1996, Spring 1997, Fall 1997
 - Seminar in Advanced Decision Systems: Evolutionary Computation, Spring 1995 and Spring 1996. Created course with Prof. James Laing for upper-class honors students
 - Introduction to the Computer as an Analysis Tool, Fall 1998
 - Teacher's Assistant: Systems Analysis and Design, Database Systems, Introduction to Management Information Systems, Negotiations
- Conference Committees
 - Co-Chair of The Fun!Lab for Computer-Human Interaction, 2002, with Cecilia Kremer
 - Reviewer's Liaison Special Chair for Computer-Human Interaction, 2003
 - Co-Chair of Demonstrations program for Computer-Human Interaction, 2002
 - Co-Chair of Student Volunteer program for Computer-Human Interaction, 2000
 - Co-Chair of Special Interest Groups for Computer-Human Interaction, 1999
 - Program Committee for Genetic Programming, 1996
- Hobbies and Recreations
 - Backpacking, Bridge, Cycling (Boston □ NYC AIDS Ride, 1999 & 2000, TNT 2003), Travel (Brazil, China, Tibet, Europe, Israel, Sinai, Southeast Asia), Literature, Piano, Pottery, Tennis.

Technical Skills

- Languages: C/C++, Java (J2EE), Perl, Visual Basic, Lisp (including CLOS), Prolog
- Technologies
 - Object-Oriented Design and Programming: OMT, UML, Java, C++, Lisp
 - XML and Semantic Web technologies: SAX, DOM, RDF, RDF schema, XHTML
 - Databases: RDBMS, SQL, JDBC, ER Diagrams