JAMES VORBACH

Director and Associate Professor
Division of Library and Information Science
St. John's University
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EDUCATION

Ph.D., Applied Mathematical Sciences, University of Rhode Island, Kingston, RI, 1990 DISSERTATION: A Unifying Logic-based Formalism for Semantic Data Models

M.S., Computer Science, University of Rhode Island, Kingston, RI, 1982 THESIS: *Dorvac: an Interactive View Mechanism for the Casual User*

B.S., Electrical Engineering, SUNY at Stony Brook, Stony Brook, NY, 1978

RESEARCH INTERESTS

- Conceptual Modeling
- Database Design
- Metadata
- Online Learning Pedagogy

EXPERIENCE

Director, Division of Library and Information Science, St. John's University, 2014 - .

Associate Professor, Division of Library and Information Science, St John's University, 2004 - .

Database Consultant, 1999 – 2009

- Design and implementation of database applications to support data filtering, migration, validation, performance evaluation, marketing, and client reporting
- Client: Deutsche Asset Management, Deutsche Bank, NY, NY

Associate Professor, Department of Mathematics and Computer Science, St John's University, 1996 - 2004.

Assistant Professor, Department of Mathematics and Computer Science, St John's University, 1989 - 1996.

Adjunct Instructor, University of Rhode Island, Department of Computer Science & Statistics, 1985 - 1989

Instructor, Providence College, Department of Mathematics and Computer Science, 1982 - 1985

TEACHING

Division of Library and Information Science, St. John's University, 2004 - .

- Database Modeling and Design
- Web Design for Libraries and Information Centers
- Metadata for Information Professionals
- Research and Evaluation Methods

Department of Mathematics and Computer Science, St. John's University, 1989 – 2004.

- Data Structures
- Compiler Design
- Programming Languages
- Computer Science 1 and 2

Department of Computer Science and Statistics, University of Rhode Island, 1985 - 1989

- Compiler Design
- Database Design

Department of Mathematics and Computer Science, Providence College, 1982 - 1985

- Data Structures
- Database Design
- Computer Science 1 and 2

PUBLICATIONS

Singh, R., & Vorbach, J. (2017). Re-envisioning management education and training for information professionals. *Journal for Education in Library and Information Science*, 58(2), 94-105.

Vorbach, J. (1999). A database project methodology for real design experiences, *Proc. of the 15th Annual Eastern Small College Computing Conference, St. Bonaventure, NY, Oct. 15-16, 1999*, 155-160.

Brawner, J. and Vorbach J. (1998). An algorithmic logic approach to formalizing database update semantics, *J. of Applied Non-Classical Logics*, 8(3), 199-220.

Vorbach, J. (1997). A design-oriented database course, *Proc. of the 13th Annual Eastern Small College Computing Conference, October 24-25, 1997, The Richard Stockton College of New Jersey, Pomona, NJ.*

Brawner, J., MacKellar, B., Peckham, J. and Vorbach, J. (1997). Automatic generation of update rules to enforce consistency constraints in design databases, *Proc. 7th IFIP 2.6 Working Conf. on Database Semantics (DS-7), October 7-10, 1997, Leyson, Switz.*

Peckham, J., MacKellar, B. and Vorbach, J. (1997). A Unified Approach to the Design and Generation of Complex Database Schemata, J. of Database Management, 8(3), 16-25.

Ochs, R., Qureschi, A., Sycz, A. and Vorbach, J. (1996). A computerized metabolic map II - relational structure, extended modeling and a graphical interface, *J. Chemical Information and Computer Sciences*, 36(3) 594-601.

Vorbach J. and Ryan, J. (1995). Information technology model for evaluating emergency medicine teaching, *Healthcare Information Infrastructure, SPIE Proceedings Series*, v.2618, 63-71.

Brawner, J. and Vorbach, J. (1995). A formal basis for schema analysis of semantic database update semantics, *Proc. of the 23rd Annual ACM Computer Science Conference, February 28 - March 2, 1995, Nashville, TN,* 142-149.

Chudziak, J., Rybinski, H. and Vorbach, J. (1995). On unification of formalisms for semantic data models, *Proc. Intelligent Information Management Systems Conf. (IASTED/ISMM)*, *June 7-9, 1995, Washington, D. C.*

Chudziak, J. and Vorbach, J. (1994). SDM-CASE - a Verification and Validation Tool for Semantic Database Schemata, *Proc. of the 25th Annual Meeting Decision Sciences Institute (DSI'94), November 20 - 22, 1994, Honolulu, Hawaii,* 952 - 955.

Vorbach, J. (1994). The Medical Center 'Med' Information System Project, *Proc. of the 25th Annual Meeting Decision Sciences Institute (DSI'94), November 20 - 22, 1994, Honolulu, Hawaii,* 870 - 873.

Chudziak, J., Rybinski, H. and Vorbach, J. (1994). Towards a unifying logic formalism for semantic data models, in *The 12th Int'l Conf. on the Entity-Relationship Approach, Lecture Notes in Computer Science Series v. 823*, New York: Springer-Verlag, 492-507.

Vorbach, J. (1992). SDM-Logic - An approach for analyzing semantic data models, *Bulletin of the Polish Academy of Science*, 40(1), 85-98.

Vorbach, J. and Kowalski, J. (1991). A unifying logic-based formalism for semantic data models, *Proc. of the 19th Annual Computer Science Conf. (CSC '91), March 5-7, 1991, San Antonio, Texas,* 343-349.

PRESENTATIONS

Singh, R., & Vorbach, J. (2017). *Re-envisioning management education and training for information professionals*, Association for Information Science and Technology Webinar, April 5, 2017.

Singh, R., & Vorbach, J. (2017). *Partnering with the LIS community to design curriculum for development of management skills in information professionals*. Association for Library and Information Science Education Annual Conference on Community Engagement & Social Responsibility, Jan 17-20, 2017, Atlanta, GA. Juried Paper Presentation.

Vorbach, J. (2016). *Emerging Technologies for Emerging Librarians*, Nassau County Library Association, Port Washington Public Library, Port Washington, NY, November 30, 2016. Invited panelist.

Vorbach, J. (2015). *March assessment madness: Assessment ideas from St. John's College of Arts and Sciences*, St. John's University, March 12, 2015. Invited panelist.

Vorbach, J. (2015). *Small Steps To Big Data*, Special Libraries Association of New York's Annual Conference, September 25, 2015. Invited panelist.

Vorbach, J. (2014). Turn-it-in: A non-user's questions, St. John's University, October 4, 2014. Invited panelist.

Vorbach, J. (2006). *Database development: Managing the process*, Archivists of Religious Institutions Annual Meeting, Bronx, NY, May 17, 2006. Keynote presentation.

Vorbach, J. (1995). *Can we write correct programs?* Greater Metropolitan New York Math Fair, Pace University, NY, April 2, 1995. Keynote presentation.

Vorbach, J. (1993). A formal approach towards Semantic Data Models using a two-level logic, Department of Computer Science and Statistics, University of Rhode Island, Nov. 1, 1993. Invited presentation.

Vorbach, J. (1993). *A formal approach towards Semantic Data Models using a two-level logic*, Department of Computer and Systems Sciences, Stockholm University, Sweden, Aug. 13, 1993. Invited presentation.

Vorbach, J. (1993). A formal approach towards Semantic Data Models using a two-level logic, The Franco - Polish School of New Information Technologies, Poznan, Poland, June 24, 1993. Invited presentation.

Vorbach, J. (1993). Semantic Data Models and a logic approach to their generalization, Department of Computer Science, Warsaw University of Technology, Poland, March 25, 1993. Invited presentation.

Vorbach, J. (1991). *Semantic Database Models and database logic*, Institute for Scientific, Technical, and Economic Information, Warsaw, Poland, July 5, 1991. Invited presentation.

Vorbach, J. (1991). *Information Modeling and Relational Databases*, Donnelley Marketing, Stamford, CT, March, 25, 1991. Invited presentation.

Stanton, R. and Vorbach, J. (1990). *Using TrueBASIC*, The 3rd Int'l. Conf. on Technology in Collegiate Mathematics, Columbus, Ohio, Nov. 9, 1990. Workshop presentation.

GRANTS

Vorbach, J. (2016). Nassau County Library Association Archive Project, Nassau County Library Association (\$21,000), 2016 – 2017, Role: Principal Investigator.

Vorbach, J. (1999). Information Systems for Docket Tracking in Educational Institutions III, Lemelson National Program, NCIIA initiative (\$3,599), 1999 - 2000, Role: Principal Investigator.

Vorbach, J. (1998). Information Systems for Docket Tracking in Educational Institutions II, Lemelson National Program, NCIIA initiative, (\$7,280), 1998 - 1999, Role: Principal Investigator.

Vorbach, J. (1997). Information Systems for Docket Tracking in Educational Institutions, Lemelson National Program, NCIIA initiative, (\$14,095), 1997 – 1998, Role: Principal Investigator.

HONORS

- Fulbright Scholar, Poland, Warsaw University of Technology, Institute of Computer Science, 1992 1993
- Research Fellowship, Sweden, Stockholm University, Dept of Computer Science, 1993
- Research Scientist, Poland, Warsaw, Institute for Scientific, Technical, & Economic Information, 1991

MEMBERSHIPS

- American Library Association
- Association for Library and Information Science Education
- Nassau County Library Association