

# Curriculum Vitae

The Johns Hopkins University School of Medicine

William Robert Bitman

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## Demographics and Personal Information

### Current Appointments

University: Assistant Professor

Hospital: Information Technology Director of The Wilmer Ophthalmological Institute

### Personal Data

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## Education and Training

1972 B.A. Yeshiva University, Biology

1975 M.S. Boston College, Genetics

1980 30 credits, Tufts University School of Medicine, Medical courses

1983 20 credits, The Johns Hopkins University School of Public Health, Statistics

1995 M.G.A. University of Maryland, Information Systems

2006 D.M. University of Maryland, Engineering Management

## Professional Experience

1972, Sep-1973, Jun: Teaching Assistant, Boston College

1973, Sep-1975, Jun: Science Instructor, New England Hebrew Academy

1975, Dec-1980, Nov: Research Scientist, Tufts University School of Medicine

1980, Dec-1982, Feb: Computer Scientist, Factory Mutual Engineering Corporation

1982, Feb-1984, Feb: Computer Scientist, Johns Hopkins School of Medicine

1984, Feb-1986, Jun: Computer Scientist, Project Leader, Thomson Medical Corporation

1986, Jun-1993, Oct: Computer Scientist, Project Manager, System Automation Corporation

1986, Jun-1987, Jun: Project Leaser, Social Security Administration

1987, Jul-1990, Dec: Project Leader, Systems Analyst, The Pentagon Keystone Branch

1991, Jan-1991, Dec: The U.S. Department of the Treasury

1993, Oct-2006, Nov: Computer Scientist, Project Leader, JHU Applied Physics Laboratory

1998, Sep-2002, Mar: Senior Systems Analyst, National Security Council, The White House

1996, Sep-2001, May: Instructor, JHU School of Professional Studies

2006, Nov-present: Information Technology Director, Wilmer Eye Institute, JHUSOM

## Research Activities

### Publications

1. Wolfe, H. J. and Bitman, W. R. Systemic Effects of the VX2 Carcinoma on the Osseous Skeleton: A quantitative study of trabecular bone. *Laboratory Investigation*. 1978; 38:208-215.
2. DeLellis, R. A. and Bitman, W. R. C-cell Hyperplasia and Medullary Thyroid Carcinoma: An immunohistochemical and ultrastructural analysis. *Laboratory Investigation*. 1979; 40:140-154.
3. Matloff, D. and Bitman, W. R. Effects of 25-OH Vitamin D Treatment on Calcium Metabolism and Bone Disease in Primary Biliary Cirrhosis. *Gastroenterology*. 1980; 78:1313.
4. Matloff, D. and Bitman, W. R. Osteoporosis in Primary Biliary Cirrhosis: Effects of 25-hydroxy vitamin D3 treatment, *Gastroenterology*. 1982; 83:97-102.
5. Frost, J. K. and Bitman, W. R. Quantitative Nuclear Analysis of Developing Squamous Cell Carcinoma of the Human Lung. *Analytical and Quantitative Cytology*. 1983; 5:207.
6. Bitman, W. R. Functional Lists: Object oriented design classes for MIS applications. *Proceedings of the ACM Washington Ada Symposium*. 1990; 7:101-122.
7. Bitman, W. R. Complexity Metrics as Feedback Mechanism for Object Oriented Software Design. *Proceedings of the International Conference on Industrial and Applied Mathematics*. 1991; 2:20.
8. Bitman, W. R. Information Systems Modeling: An object oriented development method. *Proceedings of the ACM Washington Ada Symposium*. 1992; 9:93-105.
9. Bitman, W. R. Balancing Software Composition and Inheritance to Improve Reusability, Cost, and Error Rate. *The Johns Hopkins University Applied Physics Laboratory Technical Digest*. 1997; 18:485-500.
10. Bitman, W. R. A Metrics Based Decision Support Tool for Software Module Interfacing Technique Selection to Lower Maintenance Cost. *Proceedings of the IEEE Symposium on Software Metrics*. 1999; 6:170-178.
11. Bitman, W. R. R&D Portfolio Management Framework for Sustained Competitive Advantage. *Proceedings of the IEEE International Engineering Management Conference*. 2005; 10:771-775.
12. Bitman, W. R. Validating a Management Decision Making Framework. *Proceedings of the International Symposium on Knowledge Communication*. 2006; 2:77-81.
13. Bitman, W. R. and Sharif, N. A Conceptual Framework for Ranking R&D Projects. *IEEE Transactions on Engineering Management*. in press.

### Patents

- 2000, April 5. Automated Risk Management Infrastructure for Healthcare, U.S. Patent 60/194,601
- 2001, April 5. Automated Risk Management Infrastructure for Healthcare, International Patent Classification: G06F 19/00; Serial Number PCT/US01/11129

## **Funding**

2004-2009. P30 Core Grant, NIH, Principal Investigator, 27% of my effort

## **Educational Activities**

### **Teaching**

Laboratory Instruction, Teaching Assistant, Boston College:

1972, Fall, General Biology Laboratory

1973, Spring, Genetics Laboratory

Classroom Instruction, Instructor, New England Hebrew Academy

1973, Fall, High School Biology I, Middle School Physics I, Middle School Chemistry I

1974, Spring, High School Biology II, Middle School Physics II, Middle School Chemistry II

1974, Fall, High School Biology I, Middle School Physics I, Middle School Chemistry I

1975, Spring, High School Biology II, Middle School Physics II, Middle School Chemistry II

Laboratory Instruction, Teaching Assistant, Tufts University School of Medicine:

1979, Fall: Histology Laboratory, General Pathology Laboratory

1980, Fall: Histology Laboratory, General Pathology Laboratory

Classroom Instruction, Instructor,

The Johns Hopkins University School for Professional Studies, Downtown Center:

1996, Fall, Program Design

1996, Spring, Information Systems Architecture

1997, Summer, Systems Analysis and Design

1997, Fall, Information Systems for Business, MBA Program.

1998, Spring, Client Server Design

1998, Summer, Client Server Design

1999, Spring, Information Systems Architecture

2000, Fall, Client Server Design

2001, Spring, Information Systems Architecture

## **Organizational Activities**

### **Editorial Activities**

2006 - present, International Journal of Effective Management, Editor

### **Professional Societies**

1988 - 2003 Association for Computing Machinery (ACM), Member

1988 - 2001 ACM Special Interest Group in Ada (ACM SIGAda), Member

1991 - 1994 ACM SIGAda, Vice President, Baltimore Chapter

2001 - 2003 ACM SIG in Management Information Systems (ACM SigMIS), Member

2004 - 2006 Institute of Electronic and Electrical Engineers (IEEE), Member

2004 - 2006 IEEE Engineering Management Society, Member

2007 - present American Medical Informatics Association (AMIA), Member