

Biographical Sketch
David H. Bernstein

PROFESSIONAL PREPARATION

B.A.: State University of New York at Binghamton, 1981
Field: Economics; Geography (Urban Planning)

MPA/URP: Princeton University, 1983
Field: Economics and Public Policy

Ph.D.: University of Pennsylvania, 1986-1990
Thesis: Programmability of Continuous and Discrete Network Equilibria

APPOINTMENTS

2007 - Professor/Professor of Computer Science
Present James Madison University

1999 - Associate Professor/Professor of Computer Science
2007 James Madison University

1994 - Assistant Professor of Operations Research
1999 Princeton University

1990 - Assistant Professor
1994 Massachusetts Institute of Technology

1985 - Vice President/Software Development
1986 Investment Technologies, Inc.

1983 - Director of Research
1985 Atlantic Commodities, Inc. (A Subsidiary of Amerada Hess)

SOME RELATED PUBLICATIONS

Friesz, T.L., D. Bernstein and C. Kwon (2009) "Evolutionary and Preferential Attachment Models of Demand Growth and Their Use in Transportation Planning", in *Complexity, Evolution and Learning: In Search of Simplicity*, A. Reggiani, R. Patuelli (eds.), Springer, pp. 141-150.

White, C.E., D. Bernstein and A. Kornhauser (2000) "Some Map-Matching Algorithms for Personal Navigation Assistants", *Transportation Research C*, Vol. 8, pp. 91-108.

Bernstein, D. and El Sanhoui, I. (1999) "The Roles of Driver Information and Congestion Pricing Systems" in *Behavioral and Network Impacts of Driver Information Systems*, P. Nijkamp, R. Emerink (eds.), John Wiley and Sons, pp. 371-392.

Bernstein, D. and S.A. Gabriel (1997) "Solving the Traffic Equilibrium Problem with Nonadditive Path Costs " in *Lecture Notes in Economics and Mathematical Systems: Proceedings of the Network*

Optimization Conference, P.M. Pardalos, D.W. Hearn, W.W. Hager (eds.), Kluwer, New York, pp. 72-102.

Eberlein, X.J. And D. Bernstein (1992) “A Relational GIS/T” in *Proceedings of the Geographic Information Systems in Transportation Symposium*, pp. 79-96.

SOME OTHER PUBLICATIONS

Bernstein, D. (2011) *The Design and Implementation of Multimedia Software*, Jones and Bartlett Learning, Sudbury, MA.

Ridgeway, K. D. Bernstein and J. Magnotti (2008) “Using Java Generics to Improve Type Safety in the Command Pattern”, *Proceedings of the ACMSE*.

Jou, Y-J, D. Bernstein, M-C Hwang, H-J Cho, and C-L Lan (2005) “Parallel Implementation of Dynamic Origin-Destination Calculation on a PC-based Linux Cluster”, *Lecture Series on Computer and Computational Sciences*, Vol 4A, pp. 1084-1087.

Sun, W. and D. Bernstein (2002) “An XML-Based Transit Timetable System”, *Transportation Research Record*, Vol. 1804, pp. 151-161.

Shapiro, J.A., W.B. Powell, and D. Bernstein (2001) “A Flexible Java Representation for Uncertainty in Online Operations Research Models”, *INFORMS Journal on Computing*, Vol. 13, pp. 29-55.

SYNERGISTIC ACTIVITIES

Recipient of the *President’s Award* (the highest award for teaching at Princeton University’)

Co-founder of the NJ Center for Transportation Information and Decision Engineering

Developed one of the first WWW-based courses (The Science and Technology of Decision-Making)

Conducted training on transportation planning in Argentina for the United Nations

Member of the Boston Olympics Organizing Committee