

Steven M. Gutstein
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REFEREED PUBLICATIONS:

Journal Publications:

Steven Gutstein, Olac Fuentes, Eric Freudenthal, **Knowledge Transfer in Deep Convolutional Neural Nets**, International Journal on Artificial Intelligence Tools 17(3): 555-567 (2008)

Conference Presentations:

Steven Gutstein, Olac Fuentes and Eric Freudenthal, **Latent Learning in Deep Neural Nets**, 2010 International Joint Conference on Neural Nets, Barcelona, Spain (To Be Presented July 2010).

Steven Gutstein, Olac Fuentes and Eric Freudenthal, **Training to a Neural Net's Inherent Bias**, Proceedings of FLAIRS-09 Conference, Sanibel Island, Florida, May 2009: 45-50

Steven Gutstein, Olac Fuentes and Eric Freudenthal, **The Utility of Knowledge Transfer for Noisy Data Sets**, Proceedings of FLAIRS-08 Conference, Coconut Grove, Florida, May 2008:59-64

Steven Gutstein, Olac Fuentes and Eric Freudenthal, **Knowledge Transfer in Deep Convolutional Neural Nets**, Proceedings of FLAIRS-07 Conference, Key West, Florida, May 2007:104-109

DEGREES EARNED :

University of Texas at El Paso, El Paso, Texas
Ph.D. – Computer Science – May 2010
G.P.A. – 3.9/4.0

New York University, New York, New York
M.S. – Computer Science – January 2004
G.P.A. – 3.6/4.0

University of Rochester, Rochester, New York
M.A. – Physics – May 1990
G.P.A. – 3.5/4.0

Amherst College, Amherst, Massachusetts
B.A. – Physics – Magna Cum Laude – May 1988
G.P.A – 3.6/4.0

EMPLOYMENT:

Jan 2006 – Present: Research Assistant at University of Texas at El Paso

- Studying Machine Learning Techniques with Dr. Olac Fuentes
 - Working on methods of knowledge transfer in machine learning

Summers 2009: Intern at Lockheed Martin – San Diego Facility

- Code development with Dr. Jamie Lawson for SONUS project
 - Developed Java interfaces to perform function fitting
- Laser Wave Mixing with Dr. Gene Hubbard
 - Supported development of laser wave mixing lab

- Summers 2007 & 2008: Intern at Lockheed Martin – Deer Creek Facility
- Developing Optimization Techniques for learning Fuzzy Logic Rule Based Systems with Dr. David Morgenthaler
 - Implementing Levenberg-Marquardt optimization techniques
 - Implementing Differential Evolution techniques
 - Implementing Type-2 Fuzzy Logic techniques
- June 2005 – Dec 2005 : Programmer at Dynamic Credit Partners
- Created interfaces between the Intex database, Excel/Access based VB code, C/C++ code and a Matlab based model used to evaluate investments.
- Sept 2001 – May 2005 : Teaching Assistant / Junior Research Scientist at NYU
- Research for Dr. Yann LeCun
 - Conceived and Developed a GUI for Computer Assisted Design of Machine Learning Architecture
 - Developed ODE interface for LUSH
 - Teaching Assistant Courses
 - Data Warehousing and Mining
 - Computer Graphics
 - Fundamental Algorithms
- Summer 2001 : Programmer at EZ-Ways.com
- Wrote Python filter scripts for automatic transportation schedule acquisition program
- Sept 2000 – June 2001 : Enrolled in NYU’s CPAC program to prepare for Master’s program.
- Tutoring at Kaplan
- May 1997 – June 2000 : Actuarial Associate at Blue Cross Blue Shield of Massachusetts; Boston, Mass.
- Wrote software package used by Underwriters to determine group insurance rates
 - Performed initial cost estimates for Viagra
 - Worked with underwriters to explain actuarial theory and respond to their concerns
 - Created financial model used to analyze consequences of various pharmacy contracts
 - Assisted in projection of rates for Medicare Supplementary Insurance
 - Monitored and projected unpaid claims liabilities
 - Qualified as ASA (Associate of Society of Actuaries) in Nov. 1998

ACCREDITATIONS EARNED:

A.S.A - Associate of Society of Actuaries
November 1998

COMPUTER SKILLS:

C, C++, Python, LUSH, Java, OpenGL, Visual Basic, HTML, Matlab, Scheme\LISP, Ada, BASIC, Unix, Linux, Windows, Excel, SQL