

Ian R Fasel

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Vita

Age 26
Citizenship United States of America

Education

Cognitive Science	Ph.D. student	UC San Diego	1999-present
B.S. Electrical Engineering	Honors	Univ. Texas at Austin	1999
B.A. Plan II Honors Liberal Arts	Highest Honors	Univ. Texas at Austin	1999

Employment

Research Intern	Advanced Telecommunications Research, Kyoto, Japan	2002
Research Assistant	University of California San Diego	1999-present
Teaching Assistant	University of California San Diego	2001
Teaching Assistant	University of California San Diego	2002
Research Assistant	University of Texas at Austin: Applied Research Labs	1996-1999

Research Interests

- Cognitive developmental robotics
- Development of shared attention in humans and robots
- Supervised and unsupervised machine learning, especially for face detection and other object representations.

Publications

Deák, G. O., Fasel, I. R., & Movellan, J. (2001). The emergence of shared attention: Using robots to test developmental theories. In *Proceedings of Epigenetic Robotics: Modeling Cognitive Development in Robotic Systems*. Lund, Sweden.

Fasel, I. R., , Bartlett, M. S., & Movellan, J. (2002). A comparison of methods for automatic detection of facial landmarks. *Proceedings of Fifth IEEE International Conference on Automatic Face and Gesture Recognition*.

Fasel, I. R., Bollacker, K. D., & Ghosh, J. (1999). A neural network based classification and real-time biofeedback system for clarinet tone-quality improvement. *Proceedings of the 12th International Joint Conference for Neural Networks*.

Fasel, I. R., Deák, G. O., Triesch, J., & Movellan, J. (2002). Combining embodied models and empirical research for understanding the development of shared attention. In *Proceedings of the 2nd international conference on development and learning*.

Fasel, I. R., Hershey, J., & Movellan, J. (2001). Active sampling in high dimensions for face detection. In *Proceedings of the VIII Joint Symposium Neural Computation*. La Jolla, CA.

Fasel, I. R., & Marks, T. K. (2001). Smile and wave: A comparison of gabor representations for facial expression recognition. In *Proc. VIII Joint Symp. Neural Computation*. La Jolla, CA.

Teaching

Teaching Assistant	COGS 180	<i>Natural Computation</i>	2002
Graduate Mentor	COGS 199	Mentored Undergraduates in Honors Thesis Projects	2002
Teaching Assistant	COGS 108B	<i>Neural Network Models of Cognition</i>	2002
Teaching Assistant	COGS 108C	<i>Neural Network Models of Cognition</i>	2001

Awards and Honors

National Science Foundation Graduate Research Fellowship	2000-2003
University of Texas Undergraduate Research Fellowship	1998-1999
James F. and Bernice M. Hinton Endowed Presidential Scholarship	1996-1997
Ernest J. Cockrell scholarship in Engineering	1994-1999
Lockheed Martin Engineering Scholar	1997
National Merit Foundation Scholarship	1994-1998
Honors Engineering	1994-1999

Computer Experience

Languages	C, C++, Matlab, SQL, Python, LaTeX
APIs &	OpenGL, POSIX threads, BSD Sockets, X/Motif
Environments	Oracle, MySQL, UIM/X, AIX, Linux, Mac OS X

Music

I have been a serious student of clarinet for fourteen years.

Special Concerts: Carnegie Hall *University of Texas Wind Ensemble* 1998

Guest Soloist *Austin Symphony Orchestra* 1994

Memberships: University of Texas Wind Ensemble, Symphony
Orchestra, Opera Orchestra, New Music Ensemble 1994-1999

Numerous Solo and Chamber Music Recitals.