

Daniel Dvorkin
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EDUCATION	University of Minnesota MS, Biostatistics (anticipated May 2007)	2005-present
	University of Colorado at Denver and Health Sciences Center MS, Computer Science with Computational Biology emphasis	2002-2005
	Metropolitan State College of Denver BS <i>cum laude</i> , Mathematics with Computer Science emphasis	1997-2001
	Community College of the Air Force AAS, Allied Health Sciences	1997
RESEARCH	Transcription factors in <i>E. coli</i> Research assistant: software development and analysis of sequence and expression data for discovery of transcription factor targets.	2006
	Genetic Analysis Workshop (GAW 15) Trait selection, data management, inheritance modeling, and data visualization for SNP marker analysis of quantitative traits in rheumatoid arthritis.	2006
	Epistasis effects in quantitative traits in cattle Research assistant: development of end-user software for data visualization.	2006
	Feasibility Of Retinoid Therapy for Emphysema (FORTE) Research assistant: clinical trials data management, analysis, and reporting.	2005-2006
	The SiMCAL family of algorithms for analysis of microarray data Thesis research: algorithm and software development for analysis of microarray data in the action of the phosphatidylserine receptor in inflammatory response, and in expression changes in cystic fibrosis patients. Developed new clustering algorithms and visualization tools. Thesis available upon request.	2003-2005
PUBLICATIONS	D. Dvorkin, V. Fadok, and K. Cios, "SiMCAL 1 algorithm for analysis of gene expression data related to the phosphatidylserine receptor," <i>Artificial Intelligence in Medicine</i> , vol. 35, pp. 49-60, September-October 2005.	
	Y. Mao, N.R. London, L. Ma, D. Dvorkin, and Y. Da, "Detection of SNP epistasis effects of quantitative traits using an extended Kempthorne model," <i>Physiological Genomics</i> , e-publication ahead of print, August 29 2006.	
	L. Ma, D. Dvorkin, and Y. Da, "Genome-wide analysis of single-locus and epistasis SNP effects on anti-cyclic citrullinated peptide," accepted for GAW 15.	
	S. Basu, T.L. Bergemann, D. Dvorkin, and M. Seth, "The analysis of quantitative traits correlated with rheumatoid arthritis," accepted for GAW 15.	
TEACHING	Teaching Assistant, University of Minnesota Division of Biostatistics Assisted in classroom-based and online biostatistics courses for health sciences students (PubH 6414: Biostatistical Methods I and PubH 6451: Biostatistics II.) Provided individual tutoring, conducted lab sessions, and graded assignments and exams. Developed skills in conveying statistical concepts to students from a wide variety of backgrounds and programs.	2005-2006
OTHER EMPLOYMENT	Software Engineer, Intelligent Imaging Innovations, Inc. ("3i") Medical Assistant / EMT, Denver Health Medical Center and other agencies Medical Service Technician ("Medic"), United States Air Force	1998-2005 1997-1998 1989-1997