Jeremy D. Jackson

	Phone: 404-374-6013, Email: jeremydjackson@gmail.com		
Objective	An application driven/research oriented position using computer vision and machine learning.		
Education 2001-2007	Georgia Institute of Technology Ph.D. in Electrical and Computer Engineering Research Area: Computer Vision/Partial Differe GPA: 3.7/4.0	Atlanta, GA ntial Equations (PDE's)	
1997-2001	Tulane UniversityNew Orleans, LAB.S. in Electrical Engineering and Computer ScienceSumma cum Laude with Departmental HonorsGPA: 3.9/4.0		
Experience Fall 2007 to present	Harris CorporationMelbourne, FLSoftware EngineerCreate real-time computer vision based applications implemented in C++. Usedeep learning and statistical machine learning methods in the areas of ObjectRecognition and Detection, Tracking, Video Analytics, Lidar, Radar, and MedicalImage Registration. Image/Video Analytics, Medical Image Registration, Radar,and Lidar. Systems include GPU/Cuda, Grid Engine computing, Matlab, AWS,and Azure. Led a team to process Maritime time series data using Deep Learning,Agile/Scrum, C++, and Python. Have TS/SCI clearance		
Fall 2001 to 2007	Georgia Institute of Technology, School of Ele Engineering Research Assistant for Dr. Anthony Yezzi, Jr. Designed and implemented vision systems for se tracking using Curve Evolution through PDE's v	ectrical and Computer Atlanta, GA egmentation, registration, and with C++ and Tcl/Tk.	
Summer 2005	Hewlett-Packard Labs Intern for Tom Malzbender Work in Image-Based Relighting of a scene with C++ and OpenGL/Glut.	Palo Alto, CA	
Fall 2000, Spr. 2001	Tulane University, Department of Electrical Engineering and ComputerScienceNew Orleans, LATeaching Assistant for Computer Organization (Assembly) and Digital LogicTaught a weekly lab to code and debug Sparc Assembly programs and taught alab involving design using 7400 series chips.		

Summer 2000	Federal Express Services <i>Intern for E-Procurement Systems</i> Wrote Perl scripts, Shell scripts, and PL/SQI to generate web page graphs and charts that	Memphis, TN L (Oracle) in an HP/UX environment describe internal sales data.	
Summer 1999	JCPenney IS Development Intern for IS Development Wrote Visual Basic and SQL for an Excel Pr stores. Authored SQL stored procedures for	Dallas, TX roject that tracked deliveries for 35 use in Crystal Reports.	
Summer 1998	Sequel (Toshiba) Laptop Repair Technician Repaired and troubleshot Laptops for Toshib	Memphis, TN pa.	
Skills	 Programming Languages: C++, Python, Shell Scripting, Tcl/Tk, Java, Perl, Sparc and Intel Assembly, PL/SQL Operating Systems: Linux/Unix, Windows Software: Microsoft Visual Studio, gcc, g++, gdb, Matlab, Mathematica, OpenGL, JDK 		
Publications	Jeremy D. Jackson, John Henderson, Donald "Beam Modulation and Interferometry for G Synthetic Aperture Radar Phase History Dat 2012 NRO/NSA Geolocation Conference.	ackson, John Henderson, Donald Lieb, and Thomas McDowall, lulation and Interferometry for Geolocation of Moving Vessels Using perture Radar Phase History Data," NSA Geolocation Conference.	
	Jeremy D. Jackson, Anthony Yezzi Jr., Stefano Soatto, "Dynamic Shape and Appearance Modeling via Moving and Deforming Layers," <i>International Journal of Computer Vision 2007</i> .		
	Layered Deformotion with Radiance: A Model for Appearance, Segmentation, Reg <i>PhD Thesis, 2007</i>	ed Deformotion with Radiance: del for Appearance, Segmentation, Registration, and Tracking Thesis, 2007	
	Jeremy D. Jackson, Anthony J. Yezzi, Stefano Soatto, "Joint Priors for Shape and Appearance Modeling" Beyond Multiview Geometry Workshop, CVPR 2007.		
	G. Sundaramoorthi, Jeremy D. Jackson, A. Y. "Tracking with Sobolev Active Contours," <i>Computer Vision and Pattern Recognition 2</i>	laramoorthi, Jeremy D. Jackson, A. Yezzi Jr., A. Mennucci, ng with Sobolev Active Contours," ter Vision and Pattern Recognition 2006.	
	Jeremy D. Jackson, Anthony Yezzi Jr., Stefano Soatto, "Dynamic Shape and Appearance Modeling via Moving and Deforming Layers," <i>Energy Minimization Methods in Computer Vision</i> <i>and Pattern Recognition 2005.</i>		
	Jeremy D. Jackson, Anthony Yezzi Jr., Stefano Soatto,		

"Tracking Deformable Moving Objects Under Severe Occulsions," 2004 Conference on Decision and Control.

Jeremy D. Jackson, Anthony Yezzi Jr., Wes, Wallace, Mark F. Bear, "Segmentation of Coarse and Fine-Scale Features Using Multi-Scale Diffusion and Mumford-Shah," *Scale Space Methods in Computer Vision, 4th International Conference, Scale Space 2003.* pp. 615-624.

Patents

David M. Bell, Lauren S. Burrell, Jeremy D. Jackson, Timothy R . Culp. 2012. Medical Image Analysis System Using N-Way Belief Propagation for Anatomical Images Subject to Deformation and Related Methods. Patent No. PCT/US2010050801, Filed Sept 2010, and issued May 2012.

David M. Bell, Lauren S. Burrell, Jeremy D. Jackson, Timothy R. Culp. 2012. Medical Image Analysis System for Anatomical Images Subject to Deformation and Related Methods. Patent No. PCT/US2010050799, Filed Sept 2010, and issued May 2012.

David M. Bell, Lauren S. Burrell, Jeremy D. Jackson, Timothy R . Culp. 2012. Medical Image Analysis System for Displaying Anatomical Images Subject to Deformation and Related Methods. Patent No. PCT/US2010050800, Filed Sept 2010, and issued May 2012.

Jay Hackett, Tariq Bakir, Jeremy D. Jackson, Richard Cannata, Ron Riley. 2012. Video Summarization Using Video Frames From Different Perspectives. US Patent Application 2012/0027371 A1, Filed Jul 2010. Patent Pending.

References available upon request.