Beginner Python, FORTRAN, C, Visual Basic, C Shell, HTML, VRML, Informix Beginner Python, FORTRAN, C, Visual Basic, C Shell, HTML, VRML, Informix Beginner Python, FORTRAN, C, Visual Basic, C Shell, HTML, VRML, Informix - Scientific & Computer Interests Asheville, NC Work Experience Beginner Python, FORTRAN, C, Visual Basic, C Shell, HTML, VRML, Informix Scientific & Computer Interests 2014 to Present Anatomy and Physiology, Pharmacology, Immunology, Microbiology, Biophysics, Organic Synthesis, Computer Security and Networking, Bioinformatics, Proteomics, Molecular Visualization, Application MPI development, UNIX Kernel Modifications, C Shell development, AppleScript, source code parallelization & optimization, high performance computing Computer Experience All Microsoft Office Applications; Languages: Beginner Python, FORTRAN, C, Visual Basic, C Shell, HTML, VRML, Informix (4GL) Oracle, FileMaker Pro, MySQL, XML, PERL, LabView, Visual C++, JAVA, AppleScript; Chemical & Biological Applications: Gaussian, UNICHEM, Spartan, HyperChem, CAChe, AMBER, DOCK, Autodock, VASP Laboratory Techniques Mammalian Tissue Culture, PCR, Fluorescence Spectroscopy, Nuclear Magnetic Spectroscopy, UV Spectroscopy, IR Spectroscopy, Laser Spectroscopy, Mass Spectroscopy, TLC, Site Directed Mutagenesis, Microscopy, Centrifugation, Sterile Technique, Autoclaving Colloquium Coordinator Integrative Liberal Studies Oversight Committee March 2009 to Present Summer Reading Meeting Committee (2009) Chair Laurels Scholarship Committee 2008 to Present Laurels Scholarship Committee 2008 to Present Systems Administrator and Cluster Management Laurels Scholarship Committee 2006 to Present 65 total nodes (40 in use at present) /OS X/MPI 10BT backbone; Gaussian with Linda, VASP, AMBER and Autodock currently active applications with approximately 15 users) (2006 - present) Laurels Scholarship Committee 2004 to Present Associate Professor Chemistry, Department of Chemistry 2010 to 2014 University of NC at Asheville General Chemistry Lab March 2012 to May 2012 Biochemistry II, Biophysical Chemistry, Humanities 414: The Individual in the Contemporary World Professional Awards Biochemistry I 2010 to 2011 Biochemistry II, Biophysical Chemistry, Humanities 414: The Individual in the Contemporary World, Bioanalytical Laboratory, Four Great Minds: Newton, Jefferson, Franklin, Bach (Liberal Studies Colloquium Course) Fall 2011: Family Medical Leave Biochemistry I 2009 to 2010

Biochemistry II, Biophysical Chemistry, Humanities 414: The Individual in the Contemporary World, Bioanalytical Laboratory, Four Great Minds: Newton, Jefferson, Franklin, Bach (Liberal Studies Colloquium Course) Assistant Professor Chemistry, Department of Chemistry 2004 to 2010 University of NC at Asheville Laurels Scholarship Committee September 2008 to 2009 Big South Undergraduate Research Symposium Database Designer and Workflow management consultant September 2008 to 2009 Editorial Advisory Board, "The Open Chemical & Biomedical Methods Journal" (ISSN: 1875-0389) Biochemistry I 2008 to 2009 Biochemistry II, Biophysical Chemistry, Four Great Minds: Newton, Jefferson, Franklin, Bach (Liberal Studies Colloquium Course), Humanities 414: The Individual in the Contemporary World (2 sections), Independent Study: Bio-Analytical Chemistry Special Topics University of NC at Asheville Chair Laurels Scholarship Committee 2008 to 2009 Chair Laurels Scholarship Committee 2008 to 2009 Summit Orientation Advising Staff (Summer 2008 - present) North Carolina Biotechnology Center 2008 to 2008 Laurels Scholarship Committee 2008 to 2008 Using Parallelized High Performance Computing to Determine Alkylamide Profiles that Yield Optimal Anti-Inflammatory Activity of Echinacea Purpurea" funded by the University of North Carolina General Administration Research Competitiveness Fund; (with Drs. Cech, Davis, Laster, Raner) Total Award $363,846 (2008) "Modeling Interaction of Irradiated Estrogen Receptor and Tamoxifen" funded by the Department of Energy; Total Award $30,000 (non-disclosure agreement in place) Intramural Funding Upon request Biochemistry I 2007 to 2008 Biochemistry II, Biophysical Chemistry, Bioanalytical Laboratory, Four Great Minds: Newton, Jefferson, Franklin, Bach (Liberal Studies Colloquium Course), Humanities 414: The Individual in the Contemporary World, University of NC at Asheville Chair Chemistry, Department of Chemistry 2006 to 2008 Senior Scientist, Chernobyl Research and Service Project (CRSP) Chemistry, Department of Chemistry 2005 to 2008 member with Duke University Medical Center and Research Triangle Institute (2005 - 2008) Referee and Journal Editor Laurels Scholarship Committee 2007 to 2007 Chemistry, Department of Chemistry 2006 to 2007 Biochemistry I 2006 to 2007 General Chemistry, Biochemistry I, Biochemistry II, Biophysical Chemistry, Bioanalytical Laboratory, Four Great Minds: Newton, Jefferson, Franklin, Bach (Liberal Studies Colloquium Course) University of NC at Asheville

Undergraduate Research Onsite Editor Laurels Scholarship Committee 2006 to 2006 Dr. Keith Krumpe, Administrative Director Laurels Scholarship Committee 2006 to 2006 Implementation of a High Speed Computational Cluster for Biotechnology Development within the Western NC Region" funded by the North Carolina Biotechnology Center Regional Development Grant Program; (Dr. Keith Krumpe, Administrative Director) Total Award $150,000 (2006) Biochemistry I 2005 to 2006 Biochemistry II, Biophysical Chemistry, Bioanalytical Laboratory, University of NC at Asheville member North Carolina Biotechnology Center 2005 to 2006 North Carolina High Performance Computing Committee member North Carolina Biotechnology Center 2004 to 2006 General Chemistry 2004 to 2005 Biochemistry I, Biochemistry II, Bioanalytical Laboratory, University of NC at Asheville University of NC at Asheville 2004 to 2004 Scientific and Visualization Award, 2005 Tenth Annual Electronic Computational Chemistry Conference Visiting Assistant Professor Department of Chemistry 2003 to 2004 General Chemistry, Bio 2003 to 2004 Organic Chemistry, Biochemistry I, Instrumental Analysis, Organic Chemistry Laboratory, University of NC at Asheville Nancy L. Thompson, Advisor Graduate Student, Department 1998 to 2003 University of NC at Chapel Hill 1999 to 2000 Physical Chemistry Laboratory Instructor and Course Developer CHEM 1998 to 1999 181L, University of NC at Chapel Hill Organic Chemistry Laboratory Instructor CHML212, University of NC at Wilmington 1998 to 1998 University of NC at Wilmington 1997 to 1998 Frances P. Venable Scholar Award, 1998 University of NC at Chapel Hill Ned H. Martin, Advisor Graduate Student, Department 1996 to 1998 SGI/Cray Research Fellow North Carolina Supercomputer Center and Cray Computer Corporation 1997 to 1997 HEI Visualization Grant Award (with Ned H. Martin), 1997 SGI Computer Corporation Ned H. Martin, Advisor University of NC at Wilmington 1994 to 1996 Physical & Biological Sciences Tutor The Learning Center 1994 to 1996 Organic Chemistry Group Sessions Tutor The Learning Center 1994 to 1996 Meeting in Miniature 1995 to 1995 American Chemical Society Computational Chemistry Scholar Award, 1996 Hypercube International CEO, VP of Sales and Director of UNIX Support Services Synerge Support Centers 1987 to 1994 Contract programmer AT&T and IBM 1986 to 1987 Education Doctor of Philosophy in Chemistry University of North Carolina at Chapel Hill - Chapel Hill, NC 2003 Master of Science in Chemistry University of

North Carolina at Wilmington - Wilmington, NC 1998 Bachelor of Science in Biology University of North Carolina at Wilmington - Wilmington, NC 1996 Bachelor of Arts in Chemistry University of North Carolina at Wilmington - Wilmington, NC 1996 Bachelor of Music in Keyboard Performance North Carolina School of the Arts 1986 Links http://hackberry.chem.niu.edu/ECCC4

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