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Education

2002 Ph.D. in Chemical and Material Physics, University of California at Irvine
2000 M.S. in Chemistry, University of California at Irvine
1998 B.Sc. in Chemistry, University of Science & Technology of China

Academic Appointments

07/12 – Associate Professor with tenure, Department of Biochemistry, Kansas State University
08/07 – 06/12 Assistant Professor, Department of Biochemistry, Kansas State University
10/02 – 08/07 Research Associate, Department of Molecular Biology, The Scripps Research Institute

Honors and Awards

2011 ACS HP Outstanding Junior Faculty Award
2010 K-INBRE Faculty Scholar Award
2010 NSF CAREER Award
2009 K-State Wakonse Fellow
2008, 10 Innovative Research Awards, Johnson Center for Basic Cancer Research
2007 Faculty Development Award, KSU NIH-COBRE on Epithelial Function

As a Postdoctoral Fellow and Student:

2002 – 05 Burroughs Wellcome Fund Postdoctoral Fellowship/La Jolla Interfaces in Sciences
2002 E. K. Lee Award, University of California at Irvine
2002 Regents' Dissertation Fellowship, University of California at Irvine
2001 Physical Sciences Faculty Endowed Fellowship, University of California at Irvine
1998 Lian Xiang Scholarship (联想奖学金), University of Science & Technology of China
1993 Xu A'Qiong Scholarship (许阿琼奖学金), Putian, P. R. China

Research Interests

Computational biochemistry and biophysics: implicit solvent protein force fields; coarse-grained protein-lipid force fields; enhanced sampling methods; *de novo* protein folding; intrinsically disordered proteins; helical protein membrane insertion and assembly; modeling and design of synthetic ion-channels;

NMR spectroscopy: structure determination and refinement; NMR relaxation analysis and protein dynamics; structural interpretation of disordered protein states; high-resolution spectral analysis;

Current Research Support

09/01/11 – 8/31/14, NSF "MRI: Acquisition of a Hybrid GPU Computing Cluster High-End Applications in Science and Engineering", \$700,000 (direct/total cost) (PI: Andresen; Role: Senior Personnel)
07/01/10 – 06/31/12, Kansas Biomedical Infrastructure Network, Faculty Scholar Award, \$20,000 (direct cost) (PI: Chen)
05/01/10 – 04/30/14, NIH R01 GM074096, "Model Synthetic Channel Assemblies", \$1,217,277 (total cost) (PI: Tomich; Role: co-PI, ~15% budget)
03/01/10 – 02/28/15, NSF MCB 0952514, "CAREER: Implicit Modeling of Nonpolar Solvation: Towards Reliable Atomistic Simulation of Intrinsically Disordered Proteins" \$672,426 (total cost) (PI: Chen)

Teaching Experience

BIOCH 265: Introduction to Organic & Biochemistry
BIOCH 590: Physical Studies of Biomacromolecules
BIOCH 806: Graduate Student Seminars

Workshops and Guest Lectures:

06/10 K-State GROW Summer Workshop 2010 (2 two-hour sessions)
08/09 CTBP/MMTSB Summer School, University of California at San Diego (3 lectures)
08/06 MMTSB/CTBP Summer Workshop, University of California at San Diego
08/04 MMTSB/CTBP Workshop, University of California at San Diego

Mentoring Experience

Postdoctoral Fellows (4): Debabani Ganguly (2007-), Ahlam Al-Rawi (2007-2009), Timothy H. Click (2010-2011), Jian Gao (2009-2012)

Graduate Students (3): Fei Zhou (2011-, PhD), Weihong Zhang (2009-, PhD), Chester D. McDowell (2009-, Master, joint with PE Smith)

Undergraduate Students (4): Tyler Dubek (Spring 2010), Melissa Veldman (2009), Miguel Aldrete (2008-09), Asma Al-Rawi (2007-08)

High School Students (1): Baylor Batista (Spring 2009)

Service Activities

Editorial Boards (2):

Scientific Reports (Nature Publishing Group, 2011-2013)
TheScientificWorldJOURNAL (Hindawi Publishing Corporation, 2011-)

Reviewer for Manuscripts (25):

Biopolymers; BMC- Bioinformatics; Biophysical Journal; Biophysics Reviews and Letters; ChemBioChem; ChemMedChem; ChemPhysChem; Chemistry – A European Journal; Computers in Biology and Medicine; Journal of American Chemical Society; Journal of Chemical Physics; Journal of Chemical Theory and Computation; Journal of Computational Chemistry; Journal of Insect Physiology; Journal of Molecular Biology; Journal of Physical Chemistry; Journal of Theoretical and Computational Chemistry; Magnetic Resonance in Chemistry; Molecular BioSystems; PLoS Computational Biology; Physical Review Letter; Physical Chemistry Chemical Physics; Proceedings of Pacific Symposium on Biocomputing; PROTEINS: Structure, Function, and Bioinformatics; Trends in Biochemical Sciences

Reviewer for Grant Proposals (3):

National Science Foundation (US);
Indo-US Science & Technology Forum, Smithsonian Institution (US);
Biotechnology and Biological Sciences Research Council (UK)

Membership on Panels/Study Sections (1):

NSF Panel on Research Infrastructure for Biological Research and Resources (2009)

Service on Regional/National Committees (1):

Secretary/Treasurer, Intrinsically Disordered Proteins Subgroup, Biophysical Society (2011-12)

Conferences & Workshops

Co-Chair, Intrinsically Disordered Proteins Session, Pacific Symposium on Biocomputing (PSB), 2012

Faculty Mentor in Outreach Programs (5):

KSU Bridges to Bachelor's Program; Developing Scholars Program; Junction City High School Internship Program; KSU Graduate School – Summer Undergraduate Research Opportunities Program; Girls Research Our World Program;

Peer-Reviewed Publications

A total of 38 journal articles published or in press; *H*-index = 17