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Citizenship: USA and Australia

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Education

Ph.D., Physical Chemistry 8/2004-6/2007
University of California, San Diego
Advisor: J. Andrew McCammon
Thesis Topic: Free Energy Reconstruction from Irreversible
Single-Molecule Pulling Experiments
GPA: 4.0
M.S., Chemistry 8/2004-6/2006
University of California, San Diego
B.A., Chemistry 8/2000-12/2003
University of California, Berkeley

Research Experience

Postdoctoral Fellowship 8/2007-present
National Institutes of Health
Advisor: Artur Adib
Student Internship 1/2004-7/2004
Argonne National Laboratory
Advisor: Lee Makowski
Research Topic: Wide-angle X-ray scattering studies of
biological macromolecules

Peer Reviewed Publications

- **Minh DDL**, McCammon JA. *Springs and Speeds in Free Energy Reconstruction from Nonequilibrium Single-Molecule Pulling Experiments*. Journal of Physical Chemistry B, **2008**, 112(19):5892-5897.
- **Minh DDL**, Adib AB. *Optimized free energies from bidirectional single-molecule force spectroscopy*. Physical Review Letters, **2008**, 100:180602
- Makowski L, Rodi DJ, Mandava S, **Minh DDL**, Gore DB, Fischetti RF. *Molecular Crowding Inhibits Intramolecular Breathing Motions in Proteins*. Journal of Molecular Biology, **2008**, 375:529-546.
- **Minh DDL**, Hamelberg D, McCammon JA. *Accelerated Entropy Estimates with Accelerated Dynamics*. Journal of Chemical Physics, **2007**, 127:154105
- Amaro R, **Minh DDL**, Cheng L, Lindstrom WM, Olson AJ, Lin JH, Olson AJ, McCammon JA. *Remarkable Loop Flexibility in Avian Influenza NI and its*

Implications for Antiviral Drug Design. Journal of the American Chemical Society, **2007**, 129(25):7764-7765.

- **Minh DDL**. *Multiple Potentials of Mean Force from Biased Experiments Along a Single Coordinate*. Journal of Physical Chemistry B. **2007**, 111(16): 4137-4140.
- **Minh DDL**. *Free Energy Reconstruction from Experiments Performed Under Different Biasing Programs*. Physical Review E, **2006**, 74: 061120.
- **Minh DDL**, Chang CE, Trylska J, Tozzini V, McCammon JA. *The influence of macromolecular crowding on HIV-1 protease internal dynamics*. Journal of the American Chemical Society, **2006**, 128:6006-6007.
- **Minh DDL**, Bui JM, Chang CE, Jain T, Swanson JM, McCammon JA. *The entropic cost of protein-protein association: a case study on acetylcholinesterase binding to fasciculin-2*. Biophysical Journal, **2005**, 89(4):L25-7.

Popular Science Articles

Written for the Daily Californian student newspaper at UC Berkeley, 2002-2003

Researchers Pioneer Painless Microsyringe for Drug Delivery	5/7/2003
Scientists Offer Insight Into Roots of Age, Cancer	3/5/2003
Brain Injuries Found to Differ in Sexes	2/6/2003
California Scientists Join Earthquake Coalition	2/5/2003
Unique Type of Asteroid Discovered	1/29/2003
UC Berkeley Scientists Uncover the Brain's Role in Recalling Smells	11/13/2002
Research Shows Exposure to Chemical Affects Frog Sexuality	10/31/2002
UC Scientists Study Cancer's Ferocious Proliferation	9/19/2002
Zinc-Bound Protein Implicated in DNA Repair	9/4/2002
Pilotless Chopper Finds Its Own Way	8/28/2002

Teaching Assistant Experience

At UC San Diego, 2005-2006

Chemistry 100A	Analytical Chemistry Laboratory	Winter 2006
Chemistry 126	Physical Chemistry – Quantum Mechanics and Spectroscopy	Fall 2005
Chemistry 115/215	Modeling Biological Macromolecules	Spring 2005
Chemistry 127	Physical Chemistry – Thermodynamics and Kinetics	Winter 2005

Fellowships/Scholarships/Funding

NIH Molecular Biophysics Training Grant

8/2005-6/2007

Aguoron Kamen and Kaplan Fellowship

8/2004-8/2005

UC Berkeley Chancellor's Scholarship

8/2000-12/2003

National Merit Scholarship

8/2000-12/2003