

Mikhail Wolfson

EDUCATION September 2006 – Present *Mass. Institute of Technology (MIT)* Cambridge, MA
Doctor of Philosophy Candidate—Physical/Theoretical Chemistry

- ◇ Classwork focused on statistical physics

September 2002 – May 2006 *University of Wisconsin—Madison* Madison, WI
Bachelor of Science

- ◇ Double major in Chemistry and Computer Sciences; Comprehensive Honors in the chemistry major and the liberal arts
 - ◇ GPA: 3.5 (3.7 as upperclassman); 23 honors classes (every opportunity)
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EXPERIENCE November 2006 – Present *Lab for Computational Immunology* Cambridge, MA
Graduate Researcher

- ◇ Implemented Monte Carlo simulation program to search for cell surface structure formation in the T Cell Receptor (TCR)
- ◇ Currently using molecular dynamics calculations to understand the impact of antigenic peptide sequence on TCR/antigen complex

September 2006 – December 2008 *Department of Chemistry, MIT* Cambridge, MA
Teaching Assistant

- ◇ Led discussion sections in general chemistry, thermodynamics, and graduate-level statistical mechanics courses

May 2004 – August 2006 *Research Group of Prof. Qiang Cui* Madison, WI
Undergraduate Researcher

- ◇ Developed a scalar criterion for testing the similarity of two orthogonal matrices while comparing normal mode calculation methods for RNA systems
- ◇ Developed a coarse-grained model of a catalytic RNA system

February 2003 – May 2004 *Research Group of Prof. Robert Corn* Madison, WI
Undergraduate Researcher

- ◇ Prepared and analyzed microarrays of nucleic acid reactions using fluorescence microscopy and infrared spectroscopy
 - ◇ Set-up and maintained backup mail- and web-servers for research group
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Somerville, MA 02144 Email: wolfsonm@mit.edu

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COMPUTER SKILLS

Systems: Linux, MacOS X (BSD), Solaris; Windows
Languages: C, C++, FORTRAN, Python, and UNIX sh-style scripts
Scientific and Cluster: PBS, CHARMM, Tinker, VMD, Pymol, Intel compilers,
Modules, Matlab, Mathematica, mex, and Maple
Publishing and layout: L^AT_EX, Gimp and Illustrator
Web: XHTML and CSS

AWARDS

Don Brouse Memorial Scholarship: 2005
Alfred L. Wilds Scholarship in Chemistry: 2005
Chemistry Department Student Support Fund Scholarship: 2005
National Merit Scholarship: 2002

LANGUAGES

Russian, English: bilingual
Spanish: 5 years of classes, immersion in Mexico
German: 5 years of classes

REFERENCES

Arup Chakraborty: Professor, Departments of Chemistry, Chemical Engineering, and
Biological Engineering, Massachusetts Institute of Technology
arupc@mit.edu
Troy Van Voorhis: Associate Professor, Department of Chemistry, Massachusetts
Institute of Technology
tvan@mit.edu
Qiang Cui: Associate Professor, Department. of Chemistry, University of
Wisconsin—Madison
cui@chem.wisc.edu
