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Objective

- Computational Physics Ph.D. with strong quantitative problem-solving orientation and business consulting experience looking to solve challenging business problems leveraging conceptual proficiency in
 - Finance
 - Microeconomics
 - Information Technology
 - Programming

Work Experience

- **Associate Consultant** McKinsey and Company **Nov 2008 - present**
New York Office **New York, NY**
 - Industries: Pharmaceutical; Broadcast TV; Information Technology and Business Process Outsourcing / Offshoring
- **Research Assistant** Massachusetts Institute of Technology **Nov 2003 - Aug 2008**
Supervisor: Professor Troy Van Voorhis **Cambridge, MA**
 - Computational simulations of electron movement in molecules
 - Setup and maintenance / troubleshooting of networked computational resources
- **Research Assistant** University of California, Berkeley **May 2002 - May 2003**
Supervisor: Professor Judith Klinman **Berkeley, CA**
 - Theoretical and experimental work investigating quantum tunnelling in soybean enzyme
- **Research Assistant** University of California, Berkeley **Sep 2001 - May 2002**
Supervisor: Professor Paul Bartlett **Berkeley, CA**
 - Organic synthesis of a digestive enzyme stopper

Education

- **Massachusetts Institute of Technology** **Cambridge, MA**
Ph.D., Physical Chemistry, **GPA: 5.000**, 2003 - 2008
GRE Verbal: 630/800, Math: 800/800, Writing: 4.5/6
- **University of California, Berkeley** **Berkeley, CA**
B.S. Chemistry, High Honors, **GPA: 3.844**, 2003
B.A. Molecular and Cell Biology, High Distinction in General Scholarship, 2003
Physics Minor, 2003
- **University of California, Irvine** **Irvine, CA**
Chemistry and Biology Double Major, **GPA: 3.886**, 1999 - 2001

Leadership Activities

- **2008 Battlecode Competition (6 / 196)** **Jan 2008**
Massachusetts Institute of Technology **Cambridge, MA**
 - Annual **artificial intelligence** programming competition
 - Consideration of multi-dimensional **implementational limitations** and **rival strategies** while steering development under **tight time and resource constraints** in a 4-person team that ultimately placed top 6 out of 196 teams
- **2007 Battlecode Competition (Top 16 / 157)** **Jan 2007**
Massachusetts Institute of Technology **Cambridge, MA**

- **2007 MIT Taiwanese Career Fair (Organizer)**
Massachusetts Institute of Technology

Nov 2006 - Feb 2007
Cambridge, MA

- Designed and implemented online resume collection system
- **Logistics, budgeting**, and term **negotiation** with companies as part of a core 3-person team
- Inaugural career fair of its series at MIT, attended by about 200 people

Publications

- Van Voorhis, T. and Kowalczyk, T. and Kaduk, B. and Wang, L.P. and Cheng, C.L. and Wu, Q.
“The Diabatic Picture of Electron Transfer, Reaction Barriers and Molecular Dynamics”
Annual Review of Physical Chemistry 61, 1 (2010)
- Jeremy S. Evans, Chiao-Lun Cheng, and Troy Van Voorhis,
“Spin-charge separation in molecular wire conductance simulations”
Phys. Rev. B 78, 165108 (2008)
- Chiao-Lun Cheng, Qin Wu, and Troy Van Voorhis,
“Rydberg energies using excited state density functional theory”
J. Chem. Phys. 129, 124112 (2008)
- Qin Wu, Chiao-Lun Cheng and Troy Van Voorhis,
“Configuration interaction based on
constrained density functional theory: A multireference method”
J. Chem. Phys. 127, 164119 (2007)
- Chiao-Lun Cheng, Jeremy S. Evans, and Troy Van Voorhis,
“Simulating molecular conductance using real-time density functional theory”
Phys. Rev. B 74, 155112 (2006)

Languages

Natural Languages: English (native), Chinese / Mandarin (native), Taiwanese (fluent)

Computer Languages: Python, C++, Fortran 77, BASH, \LaTeX