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resume

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Education

- 9/1999– Ph.D., physics, with Professor Harvey Gould, Department of Physics, Clark University, "Computer simulations of statistical models of earthquakes," expected Winter 2005.
- 9/1997–7/1999 M.S., condensed matter physics, with Professor Zhengang Zhu, Institute of Solid State Physics, Chinese Academy of Sciences, Hefei, China, "Microstructure evolution of liquid metals during ultra-fast solidification."
- 9/1996–7/1997 Advanced graduate study, University of Science and Technology of China, Hefei, China.
- 9/1992–7/1996 B.S., physics, Shandong University, Jinan, China.

Employment

- 9/2001– Research Assistant in collaboration with Harvey Gould and William Klein, Department of Physics, Boston University. Developed computer simulation programs for the Burridge-Knopoff model and its cellular automata versions such as the Rundle-Jackson-Brown and Olami-Feder-Christensen models; Investigated the mean-field behavior of the Burridge-Knopoff and cellular automata models with long-range interactions; Maintained hardware and software for a cluster of computers with Mac OS X and Linux systems in the computer simulation laboratory.
- 9/1999–5/2001 Teaching Assistant of introductory physics and computer simulation laboratory, Department of Physics, Clark University. My responsibilities were grading homework, setting up labs for students, and leading the laboratory and the help session.
- 9/1997–7/1999 Research Assistant in collaboration with Zhengang Zhu and Changsong Liu, Institute of Solid State Physics, Chinese Academy of Sciences. Developed molecular dynamics programs (NVT and NPH) for liquid metals and semiconductors using realistic multi-body interaction potentials such as embedded atom method and Tersoff method. Developed microscopic structure analysis programs to identify clusters in liquids, crystals, and glasses.

Computer Skills

- Operating Systems: Linux/Unix, Mac OSX, Windows 2000/XP.
- Languages: Fortran 77/90/95, C/C++, Java, Python/VPython, and MPI/OpenMP.
- Administration: Linux, Mac OSX, NFS, NIS, LAN, Hardware and Software Maintaining.
- 0ther: PLplot/PGPLOT/OpenGL, Origin, Gnuplot, Octave, LaTeX, HTML, and Office/OpenOffice.

Honors and Prices

- 7/1999 WEIHUA Science and Technology Scholarship awarded by the Chinese Academy of Sciences.
- 9/1996–7/1999 Excellent Student, Institute of Solid State Physics, Chinese Academy of Sciences.

Professional Affiliations

- Member, American Physical Society, Division of Condensed Matter Physics, Division of Computational Physics, Division of Chemical Physics.
- Member, American Geophysical Society, Division of Nonlinear Geophysics, Division of Seismology, and Division of Tectonophysics.

References

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