

## Curriculum Vitæ

Chee Wai Lee

Department of Computer Science, 201 N. Goodwin Ave., 6616 Siebel Center  
University of Illinois, Urbana, IL 61801, USA  
(217) 333-5827 (office) – (217) 378-4245 (home)  
E-mail: cheelee@uiuc.edu  
Home page: <http://charm.cs.uiuc.edu/people/cheelee>

### RESEARCH INTERESTS

Performance Analysis and Visualization of Parallel Applications.

### EDUCATION

M.S, School of Computing, National University of Singapore, 2000.

Thesis: *A BaLinda Runtime for Java*

Advisor: Professor C. K. Yuen

B.S, (Honours), Department of Information Systems and Computer Science, National University of Singapore, 1996.

### PROFESSIONAL POSITIONS

**Research Assistant** Dept. of Computer Science, University of Illinois, (2002-present)

Worked with Professor Kale at the Parallel Programming Laboratory on developing Projections, a performance analysis tools for parallel applications.

National Center for Supercomputing Applications, University of Illinois, (1999-2000)

Worked under Albert Cheng and Mike Folk to develop code for HDF5 (Heirarchical Data Format).

**Teaching Assistant** Dept. of Computer Science, University of Illinois, (2000-2002)

Taught laboratory sessions for three semesters for CS105, a class introducing basic computing for non-Computer Science undergraduate majors, under Professor Marsha Woodbury.

Dept. of Computer Science, School of Computing, National University of Singapore, (1996-1999)

Taught basic programming techniques for fresh Computer Science undergraduates using the *Scheme* functional language, a problem solving class and a Discrete Event Simulation for senior undergraduates.

### AWARDS AND HONORARIES

## PROFESSIONAL SERVICE

- Student Member of the *Institute of Electrical and Electronic Engineers*, (2008)
- Member of the *Institute of Electrical and Electronic Engineers*, (1995-2006)

## PRESENTATIONS

- Invited Talk, “Scalability Enhancements to Performance Analysis Tools in Charm++”, *5th Annual Workshop on Charm++ and its Applications*, University of Illinois, April 2007.
- Invited Talk, “Recent Developments in NAMD Parallel Molecular Dynamics”, *Charm++ Workshop 2005*, University of Illinois, October 2005.
- Tutorial, “Projections and Performance Analysis Tutorial”, *Charm++ Workshop 2005*, University of Illinois, October 2005.

## PUBLICATIONS

### Journal Articles

- [1] Laxmikant V. Kale and Gengbin Zheng and Chee Wai Lee and Sameer Kumar. Scaling Applications to Massively Parallel Machines Using Projections Performance Analysis Tool. *Future Generation Computer Systems Special Issue on: Large-Scale System Performance Modeling and Analysis*, 22(3):347–358, February 2006.

### Journal Articles Under Review

### Refereed Conference Papers

- [2] Chee Wai Lee and Celso Mendes Laxmikant V. Kalé. Towards Scalable Performance Analysis and Visualization through Data Reduction. In *13th International Workshop on High-Level Parallel Programming Models and Supportive Environments*, Miami, Florida, USA, April 2008.
- [3] Laxmikant V. Kalé and Sameer Kumar and Gengbin Zheng and Chee Wai Lee. Scaling Molecular Dynamics to 3000 Processors with Projections: A Performance Analysis Case Study. In *Terascale Performance Analysis Workshop, International Conference on Computational Science (ICCS)*, Melbourne, Australia, June 2003.

### Conference Papers Under Review

### Other Publications

- [4] Chee Wai Lee and Laxmikant V. Kalé. Scalable Techniques for Performance Analysis. In *Technical Report*, University of Illinois, March 2007.

- [5] Chao Huang and Chee Wai Lee and Laxmikant V. Kalé. Support for Adaptivity in ARMCI Using Migratable Objects. Invited Paper at *Workshop on Performance Optimization for High-Level Languages and Libraries*, Rhodes Island, Greece, April 2006.
- [6] Chee Wai Lee and Terry L. Wilmarth and Laxmikant V. Kalé. Performance Visualization and Analysis of Parallel Discrete Event Simulations with Projections. In *Technical Report*, University of Illinois, November 2005.

**Other Media**