

Curriculum Vitae

Name: PING LIN

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Present Appointment: Professor, University of Dundee

Research Areas: Numerical Analysis and Scientific Computing; Computational Solid and Fluid Mechanics; Atomistic/continuum and Multi-scale Model Analysis

Academic/Professional Qualifications:

- BSc (1984); MSc (1987), Nanjing University, Nanjing, China
- PhD (1995), University of British Columbia, Vancouver, Canada

Awards/Honours:

- SIAM Student Paper Prize, Society of Industrial and Applied Mathematics, 1994.
- Postdoctoral Award, National Science and Engineering Research Council (NSERC), Canada, 1996.
- French short term collaboration fellowship, France, 2000.
- Hitachi Fellow, Hitachi Foundation, Japan, 2003.

Career History:

- Postdoc Fellow (1996-98), Department of Computer Science and Division of Mechanics and Computation, Stanford University, USA
- Research Associate (1998), Department of Computer Science, Rensselaer Polytechnic Institute, USA
- Assistant and Associate Professors (1999-2007), Department of Mathematics, National University of Singapore

Professional/Consulting Activities:

- Consultant, the Stanford SCCM advice for selected companies in the San Francisco Bay Area, USA, 1997-1998.
- Faculty Associate, Institute of High Performance Computing, Singapore, 2001-2004.
- Member of scientific/organizing committees of a number of conferences/workshops.

Selected Publications (Maximum of 6):

- P Lin (1997), A sequential regularization method for time-dependent incompressible Navier-Stokes equations, *SIAM J. Numer. Anal.* 34 (3), 1051-1071.
- U Ascher and P Lin (2000), Sequential regularization methods for simulating mechanical systems with many closed loops, *SIAM J. Sci. Comput.* 21 (4), 1244-1262.
- P Lin (2003), Theoretical and numerical analysis for the quasi-continuum approximation of a material particle model, *Math of Computation* 72, 657-675.
- HY Duan, P Lin, P Saikrishnan and RCE Tan (2006), L2-projected least-squares finite element methods for the Stokes equations, *SIAM J. Numer. Anal.* 44 (2), 732-752.
- P Lin (2007), Convergence analysis of a quasicontinuum approximation for a 2D material, *SIAM J. Numer. Anal.* 45 (1), 313-332.
- P Lin, C Liu and H Zhang (2007), An energy law preserving C0 finite element scheme for simulating the kinematic effects in liquid crystal flow dynamics, *J of Computational Physics* 227 (2), 1411-1427.