Chensong Zhang
Curriculum Vitæ

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Selected Publications

✎ Convergence analysis of inexact two-grid methods:
A theoretical framework
with X. Xu
SIAM Journal on Numerical Analysis, 60 (2022)

✎ On the ideal interpolation operator in algebraic multigrid
methods
with X. Xu
SIAM Journal on Numerical Analysis, 56 (2018)

✎ Analytical decoupling techniques for fully implicit reservoir
simulation
with C. Qiao, S. Wu, & J. Xu
Journal of Computational Physics, 336 (2017)

✎ On adaptive Eulerian–Lagrangian method for linear
convection-diffusion problems
with X. Hu, Y.-J. Lee, & J. Xu
Journal of Scientific Computing, 58 (2014)

✎ Combined preconditioning with applications in reservoir
simulation
with X. Hu, S. Wu, X.-H. Wu, et al.
SIAM Multiscale Modeling and Simulation, 11 (2013)

✎ A posteriori error analysis for a class of integral equations
and variational inequalities
with R. Nochetto & T. von Petersdorff
Numerische Mathematik, 116 (2010)

✎ A coarsening algorithm on adaptive grids by newest
vertex bisection and its applications
with L. Chen
Journal of Computational Mathematics, 28 (2010)

✎ A posteriori error analysis for parabolic variational
inequalities
with K.-S. Moon, R. Nochetto, & T. von Petersdorff
ESAIM: M^{2}NA, 41 (2007)

Work Experience

Professor   March 2023 — Present
Academy of Mathematics & Systems Science, Beijing, China

Associate Professor   March 2014 — March 2023
National Center for Math & Interdisciplinary Sciences
Academy of Mathematics & Systems Science, Beijing, China

Assistant Professor   Oct 2011 — March 2014
National Center for Math & Interdisciplinary Sciences
Academy of Mathematics & Systems Science, Beijing, China

Visiting Assistant Professor   Aug 2009 — Feb 2011
Department of Mathematics
Penn State University, State College, USA

Postdoctoral Fellow   June 2007 — July 2009
Department of Mathematics
Penn State University, State College, USA

Education

2002 – 2007   **Ph.D.**   University of Maryland, USA
Applied Mathematics & Scientific Computing

1999 – 2002   **M.S.**   Nanjing University, China
Computational Mathematics

1995 – 1999   **B.S.**   Nanjing University, China
Computational Mathematics

Awards and Honors

2022   **Plenary Speaker**
International Multigrid Conference

2021   **CSIAM Certificate**
on Practical Applications of Applied Mathematics

2012   **Plenary Speaker**
21st Intl. Conf. on Domain Decomposition Methods