# Curriculum Vitae: Buyang Li

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09/2009 - 08/2012	Ph.D. in Applied Mathematics, City University of Hong Kong
09/2006 - 08/2009	M.Sc. & M.Phil. in Applied Mathematics, City University of Hong Kong
09/2001 - 07/2005	B.Sc. in Mathematics, Shandong University

### **Academic Positions**

07/2023 - present	Professor, The Hong Kong Polytechnic University
07/2020 - 06/2023	Associate Professor, The Hong Kong Polytechnic University
06/2016 - 06/2020	Assistant Professor, The Hong Kong Polytechnic University
06/2015 - 05/2016	Alexander von Humboldt Research Fellow, Universität Tübingen
12/2012 - 05/2016	Assistant/Associate Professor, Nanjing University
09/2012 - 08/2013	Postdoctoral/Research Fellow, City University of Hong Kong

## **Research Interests**

Applied, numerical and computational mathematics for the following problems:

- Geometric evolution equations, mean curvature flow, Willmore flow, PDEs on surfaces
- Low-regularity integrators for nonlinear dispersive equations with rough initial data
- Incompressible Navier-Stokes equations, two-phase flow, fluid-structure interactions
- Arbitrary Lagrangian-Eulerian method, evolving finite elements, shape optimization
- Maximum-norm stability and error estimates of finite element methods in nonsmooth domains
- Maximal  $L^p$ -regularity of time discretization and finite element methods for parabolic equations
- High-order approximations to singular solutions of fractional evolution equations
- Computation of the Ginzburg-Landau superconductivity equations in nonsmooth domains

#### **Editorial membership**

- Associate Editor, IMA Journal of Numerical Analysis, 2/2023 present.
- Associate Editor, Mathematics of Computation, 2/2022 present.
- Associate Editor, SIAM Journal on Numerical Analysis, 1/2022 present.

# **Professional Recognitions (Fellowship and Awards)**

- President's Award for Outstanding Achievement 2023 (Hong Kong PolyU).
- RGC Research Fellowship 2023 (Hong Kong Research Grants Council).
- The Hong Kong Mathematical Society Young Scholars Award 2022 (for his fundamental contributions to stability analysis and error estimates of finite element and other numerical methods for solving partial differential equations)
- Departmental Best Paper Award 2022 (Hong Kong PolyU).
- Alexander von Humboldt Research Fellowship, 2015–2016.
- Best Paper Award for Young Scholars 2013, The Chinese Society for Computational Mathematics.