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## 教育背景

2004 年 9 月 -2009 年 12 月 **博士研究生**, 西安交通大学理学院, 理学博士 (硕博连读).

2000 年 9 月 -2004 年 7 月 **本科**, 山西大学数学科学学院, 理学学士.

## 经历

### 工作经历

2011 年 11 月 -现在 **副教授, 硕士生导师**, 温州大学数理与电子信息工程学院.

2010 年 1 月 -2011 年 10 月 **讲师**, 温州大学数学与信息科学学院.

### 教学经历

2010 年 1 月 -至今 **讲授课程**.

- 高等数学
- 常微分方程
- 微分方程基础
- 概率论与数理统计

## 研究方向

- 1 偏微分方程数值解
- 2 Navier-Stokes 方程的数值算法
- 3 有限元方法

## 主持科研项目

2018年1月  
-2020年12月

不可压缩磁流体力学方程组具有保结构形式的高效数值算法研究, 浙江省自然科学基金 (一般项目), (LY18A010021).

主持

2014年1月  
-2016年12月

大雷诺数下 Navier-Stokes 型变分不等问题若干数值方法的研究, 浙江省自然科学基金 (一般项目), (LY14A010020).

主持

2011年1月  
-2013年12月

不可压缩粘性流体中变分不等问题高性能算法的研究, 国家自然科学基金 (青年项目), (11001205).

主持

## 论文

### 学术论文

- [1] Rong An, Yuan Li, Kaitai Li, Finite element approximation for fourth-order nonlinear problem in the plane, **Applied Mathematics and Computation**, Vol. 194(1), pp.143-155, 2007.
- [2] Yuan Li, Rong An, Kaitai Li, Some optimal error estimates of biharmonic problem using conforming finite element, **Applied Mathematics and Computation**, Vol. 194(2), pp.298-308, 2007.
- [3] 李媛, 安荣, 李开泰, 一个新 Pohozaev 恒等式及其在四阶拟线性椭圆方程中的应用, **西安交通大学学报 (自然科学版)**, Vol. 41(10), pp.1245-1247, 2007.
- [4] Yuan Li, Kaitai Li, Penalty finite element method for Stokes problem with nonlinear slip boundary conditions, **Applied Mathematics and Computation**, Vol. 204(1), pp.216-226, 2008.
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- [6] Rong An, Yuan Li, Kaitai Li, Solvability of Navier-Stokes equations with leak boundary conditions. **Acta Mathematicae Applicatae Sinica-English Series**, Vol. 25(2), pp.225-234, 2009.
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- [8] Yuan Li, Kaitai Li, Pressure projection stabilized finite element method for Navier-Stokes equations with nonlinear slip boundary conditions, **Computing**, Vol. 87(3-4), pp.113-133, 2010.
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- [10] Yuan Li, Rong An, Semi-discrete stabilized finite element methods for Navier-Stokes equations with nonlinear slip boundary conditions based on regularization procedure, **Numerische Mathematik**, Vol. 117(1), pp.1-36, 2011.
- [11] Yuan Li, Rong An, Two-level pressure projection finite element methods for Navier-Stokes equations with nonlinear slip boundary conditions, **Applied Numerical Mathematics**, Vol. 61(3), pp.285-297, 2011.
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- [15] Rong An, Yuan Li, Kaitai Li, Fundamental solution of rotating generalized Stokes problem in  $R^3$ , **Acta Mathematicae Applicatae Sinica, English Series**, Vol. 27(4), pp.761-768, 2011.
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- [17] Yuan Li, Kaitai Li, Global strong solution of two dimensional Navier-Stokes equations with nonlinear slip boundary conditions, **Journal of Mathematical Analysis and Applications**, Vol. 393(1), pp.1-13, 2012.
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