

# Changjian Xie

---

CONTACT INFORMATION	School of Mathematical Sciences Soochow University No.1 Shizi Street Suzhou, Jiangsu Province, China Email: 20184007005@stu.suda.edu.cn Homepage: <a href="https://www.researchgate.net/profile/Xie_Changjian">https://www.researchgate.net/profile/Xie_Changjian</a> <a href="https://stevencjxie8.com/html/default.html">https://stevencjxie8.com/html/default.html</a>
RESEARCH INTERESTS	Magnetic materials, Modeling and simulation, Numerical analysis, Machine learning, and its applications to mathematical physics, Molecular dynamics.
EDUCATION	<b>School of Mathematical Sciences, Soochow University</b> Ph.D. candidate in Mathematics (expected July 2021) <ul style="list-style-type: none"><li>• Advisor: Prof. Jingrun Chen</li><li>• Research Topic: Semi-implicit projection methods for Landau-Lifshitz equation</li></ul> <b>Hefei Normal University, Anhui Province, China</b> B.A. in Mathematics, July 2016
EXPERIENCE	Visiting scholar to Penn State Univ., under the supervision of Prof. Xiantao Li (Nov. 2019–Oct. 2020), working on the molecular dynamics simulations.  Advanced Mathematics; Instructor (2019 Spring, Soochow Univ.)  AFEPack application for demagnetization calculation; visitor for Macau Univ. (25th, April, 2019)
PUBLICATIONS	Jingrun Chen, Cheng Wang, Changjian Xie. <i>Convergence analysis of a second-order semi-implicit projection method for Landau-Lifshitz equation (in review)</i> , submitted to Appl. Numer. Math. (May, 2019).  Changjian Xie, García-Cervera, Cheng Wang, Zhennan Zhou, and Jingrun Chen. <i>Second-order semi-implicit projection methods for Landau-Lifshitz equation</i> . Accepted by J. Comp. Phys. Doi: 10.1016/j.jcp.2019.109104.  Panchi Li, Changjian Xie, Rui Du, Jingrun Chen, Xiaoping Wang. <i>Two improved Gauss-Seidel projection methods for Landau-Lifshitz-Gilbert equation</i> . Accepted by J. Comp. Phys. Doi: 10.1016/j.jcp.2019.109046.
CONFERENCE TALKS	<i>Second-order semi-implicit projection methods for Landau-Lifshitz equation</i> , 7 <sup>th</sup> Representative Congress, Society for Industrial and Applied Mathematics of Jiangsu Province. (December 2018)  <i>Second-order semi-implicit projection methods for Landau-Lifshitz equation</i> , China Society for Industrial and Applied Mathematics (CSIAM) 2019. (September 2019)

HONORS AND AWARDS	2012–2016	National Encouragement Scholarship National Scholarship Outstanding Student First Prize Scholarship Outstanding Graduates Awards
	2016–2017	Outstanding Student First Prize Scholarship
	2017–2018	Outstanding Student Second Prize Scholarship
	2018–2019	Outstanding Student Highest Prize Scholarship Second Prize, Chinese Mathematical Competitions (Anhui division) Third Prize, National Post-Graduate Mathematical Contest in Modeling
	Research	2018 JSIAM Graduate International Symposium (outstanding winner)

GRADUATE COURSEWORK	<input type="checkbox"/> Real Variables	<input type="checkbox"/> Partial Differential Equations
	<input type="checkbox"/> Functional Analysis	<input type="checkbox"/> Stochastic Differential Equations in Economy
	<input type="checkbox"/> Numerical Analysis	<input type="checkbox"/> Landau-Lifshitz equation
	<input type="checkbox"/> Advanced Mathematical Statistics	<input type="checkbox"/> Topology
	<input type="checkbox"/> Numerical Solution of Partial Differential Equations	<input type="checkbox"/> Quantum Mechanics
	<input type="checkbox"/> An introduction to Homogenization	<input type="checkbox"/> Machine Learning

RELEVANT SKILLS	Languages: English (CET6)
	Programming: Linux, C, C++, Fortran, Matlab, Python