

Jincheng Yang

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RESEARCH INTERESTS	Analysis, dynamical systems, partial differential equations, and their application in fluid mechanics	
EDUCATION	The University of Texas at Austin , Austin, Texas USA Ph.D. Candidate in Mathematics (Pure) Aug. 2017 - Present Xi'an Jiaotong University (XJTU) , Xi'an, Shaanxi China B.Sc. in Mathematics and Applied Mathematics (Elite Class) Aug. 2013 - July 2017 Thesis: <i>Linear Inviscid Damping of a Shear Flow in a Half Space and in a Finite Channel</i> Advisor: Dongsheng Li and Zhiwu Lin	
HONORS AND AWARDS	First Everest Research Scholarship , XJTU National Scholarship , Ministry of Education, China Pacemaker to Outstanding Student , XJTU Frank Gerth III Graduate Excellence Award , UT Austin Senate of College Council's TA of the Year , UT Austin Frank Gerth III Teaching Excellence Award , UT Austin	2014 2016 2016 2018 2019 2020
ACADEMIC EXPERIENCE	Georgia Institute of Technology , Atlanta, Georgia USA <i>Visiting Research Student</i> Feb. 2017 - May 2017 Research includes the effect of density variation of fluids on the inviscid damping of stratified Couette flow, and the barotropic instability of shear flows for incompressible fluids with Coriolis effects. The University of Texas at Austin , Austin, Texas USA <i>Teaching Assistant</i> Sept. 2017 - Present Teaching assistant for differential/integral/vector calculus, differential equations and linear algebra.	
PUBLICATIONS	1. Xie, T., Cheng, X. & Yang, J. (2014) RAPTOR Program Designing Tutorial. Beijing: Tsinghua University Press. 2. Yang, J. & Lin, Z. (2018) <i>Linear Inviscid Damping for Couette Flow in Stratified Fluid</i> , Journal of Mathematical Fluid Mechanics, 20 : 445-472. https://doi.org/10.1007/s00021-017-0328-3 3. Lin, Z., Yang, J. & Zhu, H. (2020) <i>Barotropic Instability of Shear Flows</i> , Studies in Applied Mathematics, 144 : 289-326. https://doi.org/10.1111/sapm.12297	
PREPRINT	1. Yang, J. (2020) <i>Construction of Maximal Functions associated with Skewed Cylinders Generated by Incompressible Flows and Applications</i> , submitted, arXiv:2008.05588 2. Vasseur, A. & Yang, J. (2020) <i>Second Derivatives Estimate of Suitable Solutions to the 3D Navier-Stokes Equations</i> , submitted, arXiv:2009.14291	