YUAN WANG

Postdoctoral Researcher at the University of Waterloo

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EDUCATION

Ph.D. of Applied Mathematics (GPA: 95.0/100)	Sep 2019 - May 2024
Supervisor: Prof. Sander Rhebergen (Google Scholar), Dept. of Applied Mathematics	University of Waterloo, Canada
Master of Computational Mathematics (GPA: 93.3/100)	Sep 2018 - Aug 2019
Supervisor: Prof. Sander Rhebergen, Dept. of Applied Mathematics	University of Waterloo, Canada
Bachelor of Mathematics (Math course GPA: 88.2/100)	Sep 2013 - Aug 2018
Dept. of Pure & Applied Mathematics	Xiamen University, China

TECHNICAL SKILLS

Programming: C/C++ (working knowledge), Python (working knowledge), Bash (competent), HTML/CSS (working knowledge) **OS/Server**: GNU/Linux (debian, archlinux) (competent), Slurm (working knowledge), Website hosting (working knowledge)

RESEARCH

An Abstract Framework of Pressure Robustness for Saddle Point Problems in Hilbert Spaces	
Master of Computational Mathematics research paper. Online access	
Highlights: Functional analysis, PDE (Partial differential equations)	
Space-time Hybridizable Discontinuous Galerkin Method for Advection-Diffusion on Deforming Do-	
mains: the Advection-Dominated Limit	Aug 2023
Ph.D. project paper. Submitted. Preprint / Code	-
Highlights: Numerical analysis, PDE, C++ implementation, HPC (high-performance computing) on supercomputers	
A Posteriori Error Analysis of a Space-time Hybridizable Discontinuous Galerkin Method for the Advec-	
tion-Diffusion Problem	Apr 2024
Ph.D. project paper. Submitted. Preprint / Code	
Highlights: Numerical analysis, PDE, C++ implementation, HPC on supercomputers, AMR (adaptive mesh refinement)	
Space-time Hybridizable Discontinuous Galerkin Method for the Advection-Diffusion Problem	May 2024
Ph.D. thesis. Online access	-
CONFERENCE	
39th Southern Ontario Numerical Analysis Day (Waterloo, Canada)	May 2023
Contributed talk: Space-time Hybridizable Discontinuous Galerkin Method for Advection-dominated Advec-	
tion-Diffusion on Deforming Domains.	
17th U. S. National Congress on Computational Mechanics (Albuquerque, USA)	Jul 2023
Minisymposia presenter: A New Analysis of a Space-time Hybridizable Discontinuous Galerkin Method for	
the Advection-Diffusion Problem on Time-dependent Domains. Slides	
Ontario Graduate Mathematics Conference (Waterloo, Canada)	Jun 2024
Student talk, A Dectariari Analysis of a Space time Unbridizable Discontinuous Calerkin Method for the Ad	

SESSIONAL LECTURER (University of Waterloo)

MATH127 Calculus I for Science AMATH242/CS371 Introduction of Computational Mathematics SCP (Student Course Perceptions) overall rating: 4.5/5.0. Student reviews

Award			
University of Waterloo Graduate Scholarship	2019/2020,	2020/2021,	2021/2022
Ontario Graduate Fellowship			2022/2023
Outstanding Teaching Assistant Award (Applied Mathematics, University of	Waterloo)	2019/2020,	2020/2021