

YUAN WANG

Waterloo, Ontario, Canada

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EDUCATION

Bachelor of Mathematics

Xiamen University, Fujian, China

Sep '13 - Aug '18

Master of Computational Mathematics

University of Waterloo, Ontario, Canada

Sep '18 - Aug '19

Supervisor: Prof. Sander Rhebergen, Dept. of Applied Mathematics

Ph.D. of Applied Mathematics (expected)

University of Waterloo, Ontario, Canada

Sep '19 - May '24

Supervisor: Prof. Sander Rhebergen, Dept. of Applied Mathematics

RESEARCH

An Abstract Framework of Pressure Robustness for Saddle Point Problems in Hilbert Spaces

Master of Computational Mathematics research paper. [Online access](#)

Aug '19

Space-time Hybridizable Discontinuous Galerkin Method for Advection-Diffusion on Deforming Domains: the Advection-Dominated Limit

Ph.D. project paper. Submitted. [Preprint](#)

Aug '23

A Posteriori Error Analysis of a Space-time Hybridizable Discontinuous Galerkin Method for the Advection-Diffusion Problem

Ph.D. project paper. Submitted. [Preprint](#)

Apr '24

CONFERENCE

39th Southern Ontario Numerical Analysis Day

Waterloo, Ontario, Canada

May '23

Contributed talk: Space-time Hybridizable Discontinuous Galerkin Method for Advection-dominated Advection-Diffusion on Deforming Domains

17th U. S. National Congress on Computational Mechanics

Albuquerque, New Mexico, USA

Jul '23

Minisymposia presenter: A New Analysis of a Space-time Hybridizable Discontinuous Galerkin Method for the Advection-Diffusion Problem on Time-dependent Domains. [Slides](#)

TECHNICAL SKILLS

C/C++ ([deal.II](#)), GNU/Linux ([archlinux](#)), parallel computing ([Digital Research Alliance of Canada](#))

LECTURING

MATH127 - Calculus I for Science

University of Waterloo, Ontario, Canada

Fall '21

AMATH242/CS371 - Introduction of Computational Mathematics

University of Waterloo, Ontario, Canada

Spring '23, Winter '24, Spring '24

AWARD

University of Waterloo Graduate Scholarship

'19/'20, '20/'21, '21/'22

Ontario Graduate Fellowship

'22/'23

Outstanding Teaching Assistant Award

'19/'20, '20/'21

Applied Mathematics, University of Waterloo