

Wu, You

TEAM MEMBER OF 'RACKLETTE' HIGH-PERFORMANCE COMPUTING TEAM

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Education

ETH Zürich

MSc IN COMPUTATIONAL SCIENCE AND ENGINEERING, DEPARTMENT OF MATHEMATICS

Zürich, Switzerland

09/2024 - Present

ETH Zürich

BSc IN COMPUTATIONAL SCIENCE AND ENGINEERING, DEPARTMENT OF MATHEMATICS

Zürich, Switzerland

09/2020 - 09/2024

Research Experience

Research Assistant

GPU4GEO PASC PROJECT, ETH ZÜRICH

Zürich, Switzerland

06/2024 - Present

- Task-based parallelism on CPU/GPU for finite difference computations on staggered grids
- Supervised by Prof. Paul J. Tackley, Dr. Ludovic Räss, Dr. Ivan Utkin

Undergraduate Research Assistant

INNOVATIVE COMPUTING LABORATORY, DEPARTMENT EECS, UNIVERSITY OF TENNESSEE

Knoxville, TN, United States

09/2023 - 11/2023

- Language interoperability for the high-performance sparse linear algebra library - Ginkgo
- Presented at session "MS6E - Julia for HPC: Tools and Applications - Part II" at PASC24 [🔗](#)
- Supervised by Prof. Hartwig Anzt, Dr. Valentin Chuvary, Tobias Ribizel

Bachelor Thesis

GEOPHYSICAL FLUID DYNAMICS GROUP, INSTITUTE OF GEOPHYSICS, ETH ZÜRICH

Zürich, Switzerland

02/2023 - 07/2023

- Title: Towards Hydro-Mechanical Earthquake Cycles with a GPU-based Accelerated Pseudo-Transient Solver
- Presented poster at EGU 2023 [🔗](#)
- Supervised by Prof. Taras V. Gerya, Prof. Luca Dal Zilio, Dr. Albert de Monserrat Navarro

Teaching Experience

Solving Partial Differential Equations in Parallel on GPUs [🔗](#)

TEACHING ASSISTANT FOR THE COURSE 101-0250-00L AT ETH ZÜRICH

Zürich, Switzerland

09/2024 - Present

[Tutorial] Scientific Visualization for Student Cluster Competitions

INTRODUCTORY TUTORIAL WORKSHOP FOR NEW MEMBERS OF THE STUDENT CLUSTER COMPETITION TEAM 'RACKLETTE'. 02/03/2023

Zürich, Switzerland

Scholarship and Awards

JuliaCon 2024 DEI Scholarship

AWARDED A SCHOLARSHIP OF UP TO \$750 FOR ATTENDING JULIACON 2024 IN EINDHOVEN.

Eindhoven, Netherlands

07/2024

AWStudents Mentorship Program

MENTORED BY AWS TO EXPLORE TECH CAREERS AND DEEPEN CLOUD EXPERTISE THROUGH TRAININGS AND LABS. 02/2024 - 08/2024

Zürich, Switzerland

SC22 Student Cluster Competition - "RACKlette" Team [🔗](#)

ACHIEVED TOP RESULTS FOR THE HPC SOFTWARE PACKAGE 'PHASTA', USED FOR CFD SIMULATIONS.

Dallas, TX, United States

11/2022

National Linguistics Olympiad (DOL)

6TH. PLACE | LEIBNIZ CENTER FOR GENERAL LINGUISTICS (ZAS).

Berlin, Germany

06/2020

Karin-Elisabeth Loos Sponsorship Award

ONE OF FIVE TOP HIGH SCHOOL GRADUATES IN WIESBADEN AWARDED €1,000 FOR EXCELLENCE IN NATURAL SCIENCES.

Wiesbaden, Germany

06/2020

Skills

Programming C++, C, Julia, Python, MATLAB, MPI, CUDA, ROS

Languages Mandarin (Native), German (C2), English (C1), Spanish (B1/B2), Swedish (A2)