

Chawit “Poom” Kritpracha

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EDUCATION

Rice University

Bachelor of Arts - Computational and Applied Mathematics

Bachelor of Arts - Mathematics

Houston, TX

August 2019 - May 2023 (expected)

RESEARCH & ACADEMIC EXPERIENCE

Summer Undergraduate Researcher

Rice University - Computational and Applied Mathematics Department

Houston, TX

May 2022 - Present

- Supervised by Dr. Beatrice Riviere and Dr. Charles Puelz
- Currently working on adopting and implementing zero-dimensional and one-dimensional models to describe solute transport in the vascular system via MATLAB and C++.

Undergraduate Research Assistant

Rice University - Computational and Applied Mathematics Department

Houston, TX

January 2022 - May 2022

- Supervised by Dr. Beatrice Riviere and (Now Dr.) Boqian Shen
- Implemented dynamic indicators for a partial differential equation solver that utilizes two methods in finite volume and discontinuous-Galerkin method in MATLAB

Cofounder and Team Member

International Physicists' Tournament

Houston, TX - Remote - Berkeley, CA

September 2019 - September 2020

- Cofounded the Rice University team with support from the Physics and Astronomy department.
- Placed third in internationals hosted by University of Warsaw.
- Placed first in nationals hosted by University of California, Berkeley.

TEACHING & MENTORSHIP EXPERIENCE

Rice Learning Assistant

Rice University - Computational and Applied Mathematics Department

Houston, TX

August 2021 - May 2022

- Introduction to Engineering Computation (CAAM 210) with Dr. Anastasiya Protasov
- Hosted weekly lectures and office hours for CAAM 210: Introduction to Engineering Computation.

Teaching Assistant

Rice University - Mathematics Department

Houston, TX

August 2020 - December 2020

- Single Variable Calculus I (MATH 101) with Dr. Jacob Russell-Madonia
- Facilitated in-class group discussions for MATH 101: Single Variable Calculus I.

Orientation Week - New Student Advisor

Rice University - the Office of Student Success Initiatives

Houston, TX

August 2020 - May 2021

- Advised a cohort of incoming students during the university's orientation week and the following school year.

Team Mentor

Institute for the Promotion of Teaching Science and Technology

Bangkok, Thailand

July 2020

- Mentored Thailand's national team in their preparation for the International Young Physicists' Tournament .

WORK EXPERIENCE

Grader

Introduction to Engineering Computation (CAAM 210)

Rice University

August 2021 - May 2022

Grader

Single Variable Calculus I (MATH 101)

Rice University

August 2020 - December 2020

Technology Assistant

Rice University - Office of Information Technology

Houston, TX

August 2020 - May 2021

- Aided instructors in setting up and facilitating a hybrid or fully-online classroom.
- Offered stand-by troubleshooting assistance for classrooms during the COVID-19 pandemic.

Cashier

Rice University - Dining

Houston, TX

January 2020 - April 2020

- Operated the dining hall's cashier deck.

RELEVANT SKILLS

- **Programming Languages** MATLAB (proficient), Python (intermediate)
- **Markup Languages** LaTeX (proficient), HTML (novice)
- **Spoken Languages** English (proficient), Thai (proficient)