

# Chawit “Poom” Kritpracha

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## EDUCATION

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### Rice University

*Bachelor of Arts - Computational and Applied Mathematics*

*Bachelor of Arts - Mathematics*

**Houston, TX**

August 2019 - May 2023 (expected)

## RESEARCH & ACADEMIC EXPERIENCE

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### 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

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### 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

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### 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

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- **Programming Languages** MATLAB, Python
- **Proficient Languages** English, Thai

## RELEVANT COURSEWORK

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<b>CAAM 436</b>	Modelling Mathematical Physics	Grade: A+
<b>CAAM 452</b>	Numerical Methods for Partial Differential Equation	Grade: A+
<b>CAAM 453</b>	Numerical Analysis I	Grade: A
<b>CAAM 454</b>	Iterative Methods for Systems of Equations and Unconstrained Optimization	Grade: A+
<b>MATH 321</b>	Introduction to Real Analysis I	Grade: A-
<b>MATH 354</b>	Honors Linear Algebra	Grade: B
<b>MATH 220</b>	Honors Ordinary Differential Equations	Grade: A
<b>CAAM 336</b>	Differential Equations in Science and Engineering	Grade: A
<b>CAAM 378</b>	Introduction to Operations Research and Optimization	Grade: A-