**Jonathan Tran**

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85-32 212th Street, Queens, NY 11427

**EDUCATION**

**University of Pennsylvania**, *School of Engineering and Applied Science* Bachelor of Science in Chemical and Biomolecular Engineering, GPA: 3.96 May 2024

**Relevant Coursework:** Thermodynamics of Fluids, Organic Chemistry I & II, Intro Scientific Comp, Material and Energy Balances, Calculus II, III & IV, Chemistry Lab I & II, Chemistry I and II, Physics Principles I & II, Programming Languages and Techniques, AP Environmental Science

**Townsend Harris High School** June 2020

**RESEARCH EXPERIENCE**

**Ocean Physics and Ecology Lab** June 2021 – Present

Advisor: Dr. Irina Marinov

* Uses computational techniques and satellite data analysis to study phytoplankton dynamics and ecology-physics interactions in the ocean

**PROFESSIONAL EXPERIENCE**

**New York Math Circle** New York, NY

*Teaching Assistant* June 2020 - Present

* Acts as liaison between administrators, students, parents, and other staff members
* Organizes and teaches lessons on competitive middle school and high school math

**Blueberry Children Summer Camp** New York, NY

*Counselor* June 2017-August 2019

* Planned and led activities and lessons for elementary and middle school students

**LEADERSHIP EXPERIENCE**

**Boy Scouts of America Troop 49** New York, NY

*Senior Patrol Leader* September 2018 - September 2019

* Led the troop in planned activities to develop teamwork and scouting skills

**Townsend Harris Fencing Team** New York, NY

*Captain* September 2018 - June 2020

* Led team in drills and coordinated game plans for upcoming matches and tournaments
* Led team to undefeated regular season and second place in NYC

**Uplift** New York, NY

*President and Founder*  March 2019 - June 2020

* Founded a program to tutor middle school students through tutoring and a playwriting workshop
* Coordinated between students and faculty of schools to promote program and to create plans for meetings

**Chem-E-Car** Philadelphia, PA

*Starting Team Lead*  September 2021 - Present

* Organizes the team in charge of starting mechanism for a chemically powered car
* Leads lab meetings for testing

**EXTRA CURRICULARS**

**PennScience Journal** Philadelphia, PA

*Writer*  September 2020 - Present

* Collaborates with a team of editors and designers to produce articles on various science topics

**Ultimate Frisbee Team** Philadelphia, PA

*Team Member*  September 2020 - Present

**AWARDS**

**Eagle Scout** February 2019

**National Merit Scholarship** June 2020

**Henry Nias Scholarship For Highest Academic Achievement and Citizenship** June 2020

**Highest Honors in Physics** June 2020

**Rattien Family Award for Excellence in Mathematics** June 2020

**PUBLISHED WORKS**

Tran, Jonathan. “Neural Communication in Canines.” *PennScience Journal of Undergraduate Research*, vol. 19, no. 1, Fall 2020, pp. 22-23.

Tran, Jonathan. “An Uncertain Future for Animal Testing.” *PennScience Journal of Undergraduate Research*, vol. 19, no. 2, Spring 2021, pp. 22-23.

Tran, Jonathan. “Future Technologies and Concerns with Self-Driving Cars.” *PennScience Journal of Undergraduate Research*, vol. 20, no. 1, Fall 2021, pp. 7-9.

Tran, Jonathan, and Ethan Lior. *Ocean Physics and Ecology: Satellite and Climate Model Data Analysis*. CURF Fall Research Expo 2021

**SKILLS AND INTERESTS**

**Languages:** Basic French, Mandarin, and Cantonese

**Computer Skills:** Microsoft Office, Java, OCaml, Python

**Interests:** Basketball, Football, Data Analytics, Fencing, and Chess