

# Vincent Chen

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## EDUCATION

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### Stuyvesant High School, New York Class of 2026 (Sep 2022 – Present)

- ❖ **GPA:** 98.18/100.00 | **SAT:** 1580 (800 M, 780 EBRW) | **PSAT:** 1520 (760 M, 760 EBRW)
- ❖ **Relevant Coursework:** Organic Chemistry, Multivariable Calculus, Systems-Level Programming, AP Physics C, Math Team.
- ❖ **Self-Studying:** Inorganic Chemistry, Physical Chemistry, Abstract Algebra.

## WORK/VOLUNTEER EXPERIENCE

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### Summer Science Program — Synthetic Chemistry Researcher (Jun 2025 – Jul 2025)

- ❖ One of 24 students selected from 3700+ for a 5-week intensive research experience in organic & inorganic synthesis.
- ❖ Completed a multi-step synthesis of 6 tetraazamacrocyclic compounds, applying concepts from kinetics, reaction mechanisms, and retrosynthesis, with emphasis on oxidation catalysts for environmental remediation (dye bleaching efficacy).
- ❖ Collaborated with peers and faculty to write a formal research report and poster, with emphasis on characterization and results, and delivered a conference-style presentation.

### American Chemical Society @ Rutgers University Newark — Research Intern (Jul 2025 – Present)

- ❖ Led the synthesis and characterization of HfO<sub>2</sub>-doped carbon nanotube thin films to investigate ferroelectric and catalytic properties.
- ❖ Designed and executed experiments involving scanning electron microscopy (SEM) and Energy dispersive X-ray spectroscopy (EDXS) to evaluate catalytic morphology and activity.
- ❖ Collaborated with an interdisciplinary team to investigate multifunctional oxide materials with energy-related applications, presenting findings at ACS Fall 2025 Sci-Mix.

### NYC Dept. of Parks & Recreation — Management & Operations Intern (Jun 2024 – Present)

- ❖ Led projects worth \$70,000+ and managed 700+ volunteers over 1,200+ man hours in Lower Manhattan parks.
- ❖ Developed a horticulture webapp using ArcGIS Pro & Python, mapping 300+ work sites in Manhattan's 200+ parks, streamlining project tracking and aiding data-driven planning for NYC Parks staff and corporate sponsors.
- ❖ Honed skills in leadership, GIS, public speaking, and emergency management.

## AWARDS

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**3x AIME Qualifier** – Ranked top 5% in olympiad math and qualified for the American Invitational Mathematics Examination (AIME).

**Cameron Impact Scholar Finalist** – One of 100 finalists out of 3,000 applicants for a four-year, full-tuition, impact-driven undergraduate scholarship.

**Gold Presidential Volunteer Service Award** – Recognized for 150+ hours of civic service with NYC Parks, including leading urban horticulture projects and data analysis to support sustainable planning and public engagement initiatives.

**USACO Silver** – Advanced to Silver level in USACO, an olympiad focused on algorithmic programming.

**David McCullough Essay Prizes Finalist** – 3rd Place out of 753 entries for my work (with a \$500 prize), titled “Greening the Concrete Jungle: Impact of Public and Private Contributions on Parks in Late 20th-Century New York City.”

**New York City Interscholastic Math League (NYCIML) Top Individual** (Soph-Frosh Spring 2023, Junior Fall 2023, 2024)

## EXTRACURRICULARS

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### Stuyvesant ACS (American Chemistry Society) Club — President (Sep 2023 – Present)

- ❖ Directed promotional campaigns for tutoring/USNCO lessons, guest speakers, and labs, grew the club from 90 to 200+ members.
- ❖ Developed lesson plans, problem sets, practice tests, and slides totalling 300+ original, AP-style questions.
- ❖ Expanded coverage from AP Chemistry to Honors-Level, Organic, Inorganic, and Laboratory/Descriptive Chemistry with 250+ documents of materials.
- ❖ Participated in the US National Chemistry Olympiad (USNCO), qualified for USNCO Nationals Alternate with highest school score.

### csDojo — Sensei/President (Sep 2024 – Present)

- ❖ As senpai/sensei, led weekly peer tutoring sessions on algorithms/data structures, and oversaw 40+ tutors over 2,000+ man hours.
- ❖ Organized cleanup events for Stuyvesant's computer science labs and ensured adherence to closing checklist, keeping classrooms tidy.
- ❖ Debugged projects in HTML/CSS, Python, NetLogo, Racket, etc. with code reviews, and fostered understanding from beginner to advanced levels.

### Math Survey — Editor-in-Chief (Dec 2022 – Present)

- ❖ Led outreach efforts to contributors, ensuring timely content from ~50 members.
- ❖ Trained 15+ members in LaTeX software system for math typesetting, improving the editorial team's workflow.
- ❖ Authored engaging articles and complex puzzles across 6 published editions, enhancing the magazine's intellectual content.

### Alumni Mentoring Program — President/Senior Student Leader (Sep 2023 – Present)

- ❖ Led cohort of 14 students & 7 alumni in 5 monthly meetings on resumes, career building, networking, and interview preparation.
- ❖ Launched a school-wide outreach campaign that generated over 500 responses with social media, printed materials, and push-ins.
- ❖ Managed engagement over 6 months by assigning weekly tasks and tracking attendance, participation, and completion metrics.

### ARISTA — Web Development Committee Member (May 2023 – Present)

- ❖ Volunteered 100+ hours through community service events, peer tutoring, etc.
- ❖ Developed fixes to website UI, search engine optimization, and strike mechanism for ARISTA members.

## SKILLS

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Expert in Java, Python, HTML/CSS, LaTeX. Expert in Microsoft 365 and Google Workspace. Certified by FEMA in 20 Independent Study Courses for Emergency Management and Project Planning.