Ying Yee (Isabella) Yu

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EDUCATION

Basis Independent Brooklyn, Brooklyn, NY **Expected June 2027**
GPA: 3.9 unweighted / 4.74 weighted

- AP Courses — Grade 10: Calculus AB, Physics 1. Grade 11: Calculus BC, Physics 2, Macroeconomics, Microeconomics, Computer Science Principles, World History, Mandarin. Grade 12 (planned): Computer Science A, Statistics, U.S. Government

HONORS & AWARDS

Rensselaer Medalist & $40K Merit Scholarship, Rensselaer Polytechnic Institute **2026**
AIME Qualifier, AMC 12 Distinction (score 132.5; cutoff 97.5) **2026**
Commendation, Science & Technology (Top 17.5%), John Locke Essay Competition **2026**
Honorable Mention (Top 20%), High School Mathematical Contest in Modeling (HiMCM) **2025**
Global Bronze Medal (5 of ~120), Georgetown Future Shapers Challenge **2025**

RESEARCH & PROJECTS

FairPlay Lab **2025 – Present**
Founder & App Developer

- Built a mobile app that analyzes attendance, RPE (rate of perceived exertion), match minutes, and lineup history to support fairer playing-time rotation in youth sports
- Piloted across 3 schools; patent reviewed; paper accepted to EDUAIT 2026

AI Detector Bias Research, mentored by Dr. Mani, Carnegie Mellon University **2025 – Present**
Student Researcher & Data Analyst

- Tested ~400 essays with ZeroGPT and RoBERTa; found no higher false-positive rate for English language learners and questioned detector-only judgments
- Paper accepted by The Curieux Review

EXPERIENCE & ACADEMIC PROGRAMS

SoftCom Lab, California State Polytechnic University, Pomona **Aug – Sep 2026**
Research Intern

- Conducted interdisciplinary research on AI, cloud computing, and mobile computing with faculty and research group members; presented findings to the group periodically
- Independently developed "An Auditable Mobile Decision-Support System for Equitable Playing Time and Team Cohesion in School Soccer"; co-authored paper with research mentor, accepted to EDUAIT 2026

Zhengyu Aluminum Co., Ltd. **2024 – Present**
Financial Assistant (Internship)

- Cleaned financial data and co-built an AI-assisted Excel dashboard charting factory-floor activity and operational costs; adopted by HR and finance

UChicago Summer Immersion: Quantitative Evaluation for Public Policy **Summer 2026**
Policy Data Analyst

- Ran ITT/LATE and regression in R/Python on lottery-based school-choice data; evaluated causal claims, assumptions, and alternative explanations

UCI Ethics Center: Financial Literacy, Economic Decision-Making, & Real-World Applications **Summer 2026**
Participant

- Explored financial planning and wealth inequality through women community leaders; examined gender wealth barriers in Brooklyn

Vanderbilt University Program for Talented Youth **Nov 2025 – May 2026**
Selected Cohort, Communicating Neuroscience: Mental Health Data Visualization

- Studied psychological theory; co-built Excel visuals of mental health data using color-coding and simplified charts; tested clarity with non-expert audiences

Columbia University Summer Program: Game Theory **Summer 2025**
Student

- Role-played classic scenarios such as the Prisoner's Dilemma with a diverse peer cohort; examined how strategic interaction shapes outcomes

EXTRACURRICULAR & VOLUNTEERING

Varsity Basketball, Basis Independent Brooklyn **Nov 2025 – Present**
Member (Rotating Roles)

- Practice 3x/week; co-organized game-film review; rotated across guard, forward, and center roles to develop adaptability

Math Honor Society, Basis Independent Brooklyn **Sep 2025 – Present**
Math Tutor
- Co-led competition prep groups for 10+ peers; tutored 3 peers in AP Calculus through step-by-step breakdowns

National Honor Society, Basis Independent Brooklyn **Sep 2025 – Present**
Service Lead & Member
- Led a team of 5 in neighborhood cleanups and urban farming; taught food-justice lessons to local children; 45+ service hours annually

Brooklyn Public Library **Sep 2025 – Present**
Volunteer Staff Assistant
- Facilitated weekend homework sessions for 5 middle school students as a reading buddy; helped patrons navigate technology with library resources

Schoolhouse.world **Jan 2025 – Present**
Certified Calculus & SAT Math Tutor
- Tutor 4 students biweekly with targeted practice and custom study guides tailored to individual learning gaps

Varsity Soccer, Basis Independent Brooklyn **Sep 2024 – Present**
Defender
- Train 3x/week in drills, scrimmages, and match analysis; strengthened defensive communication and advanced to regional playoffs; beta-tested FairPlay

East Asian Culture Club, Basis Independent Brooklyn **Sep 2024 – Present**
Co-Head
- Designed & ran pan-Asian culture games; invited the Mandarin class to our Mid-Autumn Festival, pairing students with 1-on-1 language practice buddies.

Asian American Athlete Alliance **2024 – Present**
Advocate & Outreach Lead
- Examined how identity and culture shape athletes' experiences; cold-emailed NY sports clubs, bringing 8 teams into the alliance; planning a spring webinar

Found & Worn (personal vintage archive) **2023 – Present**
Vintage Buyer & Collector
- Trace tags, cuts, repairs, and histories of vintage pieces; explore how music, culture, scarcity, and stories shape my understanding of era, brand, and design

SKILLS & INTERESTS

Technical: Python, R, JavaScript, HTML, Excel/Google Sheets, data visualization, regression and causal inference
Languages: English, Mandarin, Cantonese
Interests: Youth sports analytics, soccer, basketball, vintage collecting and archiving