

# Dexter William Theisen

dexter.theisen@gmail.com | 646.818.0176

## EDUCATION

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Hunter College Campus Schools, New York, NY

Class of 2027

- GPA: 97.0 unweighted
- Math: Dual-enrolled in Multivariable Calc (Fall '25) & Real Analysis II (Spring '26) at Hunter College
- Advanced Science Research Seminar: devised independent neuroscience research/built proprietary stochastic gradient descent algo to estimate parameters of Fitzhugh-Nagumo system of ODEs
- Math Team: placed 5th individually, 1st team at 2024 Stuyvesant Downtown Math Invitational
- AI & Emergent Tech Taskforce: invited by Head of Schools to present to faculty on latest research, trends & ethics of AI usage in education; developed proprietary speech-to-handwriting and classification AI models for inaugural AI Day
- Inaugural Hunter Estimathon: founder of Hunter's first Estimathon, obtained sponsorship from Jane Street
- "Radicals" Math publication: authored proofs and walkthroughs of RSA encryption and election topography
- Varsity Soccer: 3-year starting left back, PSAL Division AAA Manhattan Co-Champions (2025) and NYC Quarterfinals (2024); Manhattan Division AA Champions, 2<sup>nd</sup> NYC (2023), named "Freshman Captain" on Varsity by Head Coach (2023)
- Varsity Debate: Public Forum High School National Circuit, first speaker (Hunter TW). 3 TOC bid rounds in 2024/5; Top 25 Individual at Bronx Sci 2024 (Varsity); 2<sup>nd</sup> Individual at Princeton 2023 (Novice)
- Peer Leadership & Writing Center: elected by administration to mentor underclassmen and be writing tutor

## Accolades and Testing

- Terra NY Stem Fair: NYC 2nd place in Computational Biology Division Feb 2025
- Math and Coding Olympiads: AIME 2025 (5), USACO Gold, AMC 12A 2025 (111) 2024-present
- SAT: 1550 (800 M, 750 V); PSAT 10: 1520; PSAT 11: 1500 (760 M, 740 V) Oct 2024; May 2025; Oct 2025
- APs: scored 5's on all AP Physics 2 (self-study), AP Calc BC, & AP Comp Sci A (self-study) May 2024-25
- Scholastic National Writing Awards: 2 Silver Key, 1 Honorable Mention for essays and poem Feb 2025

## EXTRACURRICULARS

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### Math

- PolyMath Jr.: undergrad research group (REU) proving the existence & uniqueness of weak & strong solutions to proprietary toy model of turbulence 2025-present
- NYC Math Team: selected member of NYC's premier math team, competed at PUMaC 2025 2024-present
- Awesome Math: completed Algebra (USAMO level), Combinatorics courses Jul 2024
- Poly-Ed Math Circle: senior member of Elite Team, strong finishes at HMMT & Purple Comet 2017-present

### Coding & Engineering

- Nanotechnology (UPenn Engineering - ESAP): fabricated and characterized micropatterns, microfluidic devices, and quantum dots leveraging classical and quantum physics; 25+ hrs in cleanroom Jul 2025
- Competitive Programming (Columbia Engineering - SHAPE): gained fluency in C++ through projects involving HL decomposition, DP/memoization, DFT/FFT, bitmasks Aug 2024
- Python/C++ coder: developed networking and 3D engine libraries; programmed software for drones and weather balloon telemetry; created kinematic feedback algos for small scale motor precision 2019-present

### Soccer

- Manhattan Soccer Club ECNL-R: U17 five-year captain and starting left back/wingback 2021-present

### Community Service

- Star Learning Center: CS & chemistry tutor for underserved NYC students 2024-2025
- Relume Foundation: tutor underserved students in USA & Nigeria in Math & ELA 2023-2024
- Debate4All: regularly tutored 50+ MS students in public speaking/formal argumentation 2024-2025

## LANGUAGES & INTERESTS

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- Python, C++ (fluent); Java (advanced); HTML/JS/CSS (intermediate); Spanish (proficient)
- Lead pianist in teen rock band "Urban Garage", digital music producer (dexrey4 on Spotify)
- Avid poker player, self-taught guitarist, Rubik's cuber, street magician, thrifter