

Ryan Huang

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EDUCATION

Unionville High School

Ontario Secondary School Diploma (*in progress*), STEM-focused course load

Sep. 2023 – Jun. 2027 (expected)

Markham, ON

RESEARCH

Deep-UV light — Photonics · semiconductor physics · optical modelling

2026

- I worked on the optical modelling, including a polarization-resolved photon-extraction budget that tracks TE and TM light separately through the package.
- Accepted · poster: International Workshop on Nitride Semiconductors 2026 — “Interface Polarization Ceiling and Sidewall Recovery of TM Emission in Deep-Ultraviolet AlGaIn LED Packages”

Neuroscience — Neuroscience · neurodegenerative & cerebrovascular disease

Jul 2024 – present

- Co-author on all three (third author on most of my abstracts), and i present the posters.
- Presented: AD/PD™ 2026 International Conference on Alzheimer's & Parkinson's Diseases and Related Neurological Disorders
- Presented: Mayo Clinic 18th Annual Stroke & Cerebrovascular Disease Review
- Accepted · poster: Canadian Movement Disorders Society Congress (CMDSC) 2026

Food access — Food security · nutrition · systems research

Apr 2025 – present

- Co-author on both abstracts (third author on most of my abstracts), presenting the posters in 2027. the research grew out of platepath, a food-access project i started on my own.
- Accepted · poster: ASPEN 2027 Nutrition Science & Practice Conference
- Accepted · poster: 6th Global Food Security Conference

Digital safeguards — Science policy · health data

2026

- Speaker, listed as a researcher from Unionville High School.
- Presented: Science Summit 2026 at the UN General Assembly — “Digital Safeguards; Standardizing Data and Best Practices in an Age of Tech”

Machine learning — Machine learning

Apr 2024 – present

- Reviewing technical material and contributing to research analysis and discussion.

Memory & ADHD — AI evaluation · health data

- I designed and ran the tests across several AI models and analysed how remembered context changed the responses.

LEADERSHIP & PROJECTS

CTRC Robotics — Mechanical/CAD Director & Lead Instructor

Jul 2025 – present

- I direct the mechanical and CAD side and coach teams through design, build and iteration. Outside competition I help run the outreach program: starting clubs at new schools and teaching the intro sessions.
- 10 VRC teams coached · 3,500+ students taught · \$5,000 raised for SickKids

Afinitune — Founder

Aug 2023 – present

- I founded the initiative and lead it: building the presentations, taking them to community centres, and speaking at public events to advocate for financial literacy that's open to everyone.

Little Lab Coats — Co-founder

- I co-founded Little Lab Coats and help design and run its hands-on science sessions for younger students.

The Yorkline — Founder & Editor-in-Chief

- I founded the paper, lead the student writers across multiple schools, edit the biweekly issues, and built its website.

platepath — Founder & project lead

- I started the initiative and built the planner, the matching logic and the editorial front end.

EXPERIENCE	
KÔFÉI <i>Café Associate & Digital Growth Lead</i>	Jul 2024 – Jul 2025 Markham, ON
Built the café's website and social media presence; sales grew 278% over two years and the café is planning a second location.	
Family web business <i>Web developer</i>	Sep 2022 – present Markham, ON
Plan, build, test and maintain client websites; designed and launched a site for a local business as an independent project.	
Subway <i>Sandwich Artist</i>	Apr 2025 – present Markham, ON
Customized orders to food-safety standards, POS transactions, peak-hour service.	
HONOURS & AWARDS	
ASPEN 2027 Nutrition Science & Practice Conference – International Distinction – Top 5% of research abstracts (Oct 2026)	
International Workshop on Nitride Semiconductors – poster acceptance – Accepted for poster presentation (Sep 2026)	
Canadian Physics Olympiad – 7th nationally (May 2026)	
Canadian Astronomy & Astrophysics Olympiad – Training camp qualifier · top 24 (May 2026)	
Canadian Economics Olympiad – Silver medal · top 10 (Apr 2026)	
Canadian Computing Competition – Senior – Honour Roll (Feb 2026)	
COMMUNITY & SKILLS	
- Speaker, Science Summit 2026 at the UN General Assembly (“Digital Safeguards; Standardizing Data and Best Practices in an Age of Tech”); weekly senior-home volunteer; student leader & peer supporter (Sep 2022 – present). - Java, Python, TypeScript/Next.js, Arduino; CAD & mechanical design (Fusion 360); writing & editing; teaching. - Certifications: First Aid, WHMIS.	