Maria Vetrici

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Education

3rd Year, BASc in Civil Engineering + PEY, Computer Science Minor   Grad. May 2027
University of Toronto
Courses: Hydrology (ArcGIS Pro, QGIS), Building Science, Graphics (AutoCAD, SketchUp), Construction (Revit), Survey Camp (surveying and mapping), Computer Science (Python, OOP), Software Architecture (Java)

Awards

ESCH Foundation Scholarship, *Transportation Association of Canada (Toronto Chapter)*   Jun 2024
- Supports transportation-related post-secondary studies based on student's goals

Undergrad Award, *Natural Sciences and Engineering Research Council of Canada*   Apr 2024
- Awarded to undergraduate students to foster research and encourage future graduate studies

University of Toronto Excellence Award, *University of Toronto*   Apr 2023
- Awarded to undergraduate students to encourage the pursuit of research

Work Experience

Transport Modelling Research Student   Apr 2024 – Aug 2024
Transportation Modelling Group (TMG), University of Toronto
- Analysed and visualized trends in Toronto's BikeShare data with Python, R and ArcGIS models
- Integrated bike lanes into Toronto's virtual transportation network using OpenPaths Emme
- Designed an algorithm using INRO to model attributes of Toronto's virtual transportation network
- Created a proposal for bike integration in the GTAModel (Toronto's transportation model)

Demand Modelling Research Student   Apr 2023 – Aug 2023
Travel Demand Modelling Group, University of Toronto
- Developed logistic regression models to predict adoption of ride-sourcing services like Uber using survey data and validated findings with statistical techniques using R
- Wrote and presented a 7,000-word paper to predict the adoption of ride-hailing services like Uber (as primary author (in collaboration with two PhD students), at the *TRB Conference* in Washington, DC

Experience

VP Marketing, *Women in Science and Engineering (WISE UofT)*   Sept 2021 - Present
- Leading a team of 18 marketing team members, with bi-weekly team meetings and weekly 1-1s
- Guiding these members to manage WISE's social media, visual presence, article publication, website, LinkedIn, monthly newsletter, Discord, merchandising and in-person advertising

Marketing Lead, *Canadian Society of Civil Engineers (UofT Chapter)*   Nov 2023 - Present
- Leading a team of 4 members, and run the social media, graphic design, and website
- Moderating CSCE events and initiatives (panels, Q&A sessions, etc.)

Student Success Ambassador, *Civil Engineering Club*   Sept 2024 - Present
- Led a midterm review session for a first-year engineering math course for 200+ students
- Explained limits, derivatives, etc. using the blackboard and answered questions

Projects

Hack the 6ity Hackathon, *hosted by NSBE Hacks*   Feb 26-27 2024
- Developed an interactive map using ArcGIS plugins to visualize trends in rental costs and neighborhood sociodemographics, using Python to combine open-source and scraped rental data

TimberFever Design Competition, *hosted by Moses Structural Engineers, Inc.*   Sept 21-24 2023
- Designed and built an accessible, full-scale timber bus shelter for students by applying structural engineering design principles and woodworking skills

Skills & Certifications

- English, French, Adobe Suite, Microsoft Office
- First Aid & CPR, SafeTALK (suicide prevention), crisis & conflict management