

Mileva Van Tuyl

EDUCATION

Wellesley College, Wellesley, MA

Expected Graduation May 2021

B.A. Computer Science, Minor Mathematics. | Cumulative GPA: 3.96

The University of Edinburgh, Edinburgh, Scotland

Sept. 2019 – Dec. 2019

Semester Abroad Exchange Program

Pine View School, Osprey, FL

Graduated June 2017

RESEARCH EXPERIENCE

Computer Science Lab (Dr. Eni Mustafaraj), Wellesley, MA

Sept. 2018 – Present

Research Assistant, SERP (Sophomore Early Research Program) Fellow

- Navigated and scraped data from HTML files using the Beautiful Soup **Python** Library.
- Extracted content from over 5000 Google knowledge panels and Wikipedia infoboxes using **Python** to explore the interactions between content on Google and Wikipedia.
- Conducted a systematic literature review of 37 journal articles and conference proceedings and designed a 250-participant user study to investigate website credibility.

Physical Chemistry Lab (Dr. Chris Arumainayagam), Wellesley, MA

Sept. 2017 – May 2018

Research Assistant

- Maintained and repaired an ultrahigh vacuum chamber, conducted experiments, and graphed and analyzed mass spectrometer data in order to research reactions occurring in the interstellar medium.
- Presented novel findings at the Northeast Student Chemistry Research Conference (Apr. 2018) and within the manuscript “Detection of Methoxymethanol as a Photochemistry Product of Condensed Methanol” (Feb. 2019)

PUBLICATIONS AND PRESENTATIONS

Arumainayagam, C., [et al., including **Van Tuyl, M.**], “Detection of Methoxymethanol as a Photochemistry Product of Condensed Methanol.” *Monthly Notices of the Royal Astronomical Society: Letters*, vol. 485, no. 1, 2019, pp. 19-23.

Van Tuyl, M. “Credibility in the Age of Misinformation: How Internet Users Assess Website Credibility.” Poster presentation at Wellesley College Science Center Summer Research Program, Wellesley, MA, August 2019.

Van Tuyl, M., & Kawakami, A. “Googling the News Source: What Users Want to Know When Assessing Credibility.” Conference presentation at Wellesley College Ruhlman Conference, Wellesley, MA, May 2019.

Van Tuyl, M., Zhang, C., & Arumainayagam, C. “First Detection of Methoxymethanol as a Photolysis Product of Methanol.” Poster presentation at the Annual Northeast Student Chemistry Research Conference, Boston, MA, April 2018.

FELLOWSHIPS AND AWARDS

Sophomore Early Research Program (SERP) Fellow

Sept. 2018 – May 2019

- Sophomore Early Research Program (SERP) fellows are selected to conduct research under the guidance of a Wellesley College professor and have the opportunity to present their research at Wellesley College's Ruhlman Conference at the end of the academic year.

Library and Technology Services (LTS) Appreciation Award

May 2018

- Recognized for outstanding contributions as a student assistant in the Wellesley College Science Library.

WORK EXPERIENCE

Wellesley College Computer Science Department, Wellesley, MA

Jan. 2020 – Present

Computer Science Tutor

- Tutor students taking CS230: Data Structures at Wellesley College in one-on-one and group settings.
- Provide feedback on students' assignments in order to prepare them for exams and future Computer Science courses.

Wellesley College Chemistry Department, Wellesley, MA

Jan. 2018 – Jan. 2019

Course Material Developer

- Synthesized lecture notes for Professor Arumainayagam's introductory chemistry courses (CHEM 105, CHEM 120) and physical chemistry course (CHEM 330)
- Created concept maps (animated visual representations) using PowerPoint to summarize Acid/ Base Chemistry, Electrochemistry, Kinetics, Stoichiometry, Solubility Equilibria, Transition Metal Chemistry, and Error Analysis.

Wellesley College Science Library, Wellesley, MA

Sept. 2017 – May 2018

Student Assistant

- Processed, catalogued, and logged incoming and outgoing books, maps, and journals using Millenium and Excel.

Smashburger Restaurant, Sarasota, FL

Summer 2017, 2018

Guest Service Expert/ Cashier

- Processed transactions, prepared food, and resolved customer complaints to optimize customers' dining experience.

ORGANIZATION MEMBERSHIP AND LEADERSHIP EXPERIENCE

Girls Who Code, Wellesley College, Wellesley, MA

Sept. 2018 – Present

Volunteer and Club Co-Organizer

- Develop and present curriculum to teach girls to code in Python and HTML/ CSS.
- Mentor girls in Framingham, MA to excite and prepare them for careers in Computer Science.
- Communicate with Wellesley Civic Engagement and program coordinators at schools in the Wellesley, MA area to arrange weekly after-school programs led by Wellesley College students.

Wellesley-Brandeis Orchestra, Wellesley College, Wellesley, MA

Sept. 2017 – Present

Orchestra Member and Treasurer, Trumpet

- Rehearse weekly with musicians from Wellesley College and Brandeis University in preparation for five orchestral concerts throughout the year.