LIN TING (ASHLEY) LIANG

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EDUCATION

Dartmouth College, Hanover, NH   **Jun 2025**
Bachelor of Arts, intended Major in Computer Science   **GPA 4.0/4.0**
Relevant Coursework: Foundations of Applied Computer Science; Software Design & Implementation; Problem Solving via Object Oriented Programming; Introduction to Programming and Computation
Activities: Street Soul Dance Group, Undergraduate Advisor, Women in Computer Science, Dartmouth Chamber Orchestra

Interlake High School, Bellevue, WA   **Jun 2021**
Honors/Awards: USA Biology Olympiad semifinalist, IB Diploma graduate, National AP Scholar; ACT Score: 36   **GPA 4.0/4.0**

Publications:
1. Liang ST, **Liang LT**, Rosen JM. COVID-19: a comparison to the 1918 influenza and how we can defeat it.
2. Vayndorf E, Pitt J, Wu J, Chang E, Nguyen R, **Liang A**, Ruan R, Kaeberlein M. A robotic system for high-throughput automated lifespan and phenotyping analysis in C. elegans.

Programming Projects:
- Tiny Search Engine: command-line web-search tool that gathers information from webpages, converts necessary information to an efficient data structure to output a ranked list of pages that best fit inputted combinations of words
- Collaborative graphical editor using a server/client structure
- Machine learning program (using Hidden Markov and Viterbi) to identify the part of speech of each word in a text input
- Personal website: ashleyliang.me

RELEVANT EXPERIENCE

Women in Science Project, Dartmouth College   **Mar 2022 – Present**
Competitive Computational Astronomy Research Intern
- Create and analyze simulations of the pathway of neutral hydrogen through the heliosphere under the supervision of Professor Mueller, accounting for factors such as solar flare levels, interstellar wind velocity, and neutral hydrogen density
- Simulate heliosphere behavior for different stars and different stages of stars (main sequence star vs red/blue giants)
- Developed programs to process/interpret large data files to compare different simulations' integrated hydrogen densities

Bond Intelligence, Seattle, WA   **Jun 2021 – Sep 2021**
Front-End Developer Intern at a University of Washington startup
- Coded and debugged using ReactJS to build a professional website for the company on Looker with features like a menu bar, dropdown menu, tickers, iframes, light/dark mode, resizing dependent on size of screen; pushed new code to production
- Co-led a Python visualization project that displayed data from different CSV files depending on the user's input on checklist
- Trained new interns and wrote documentation on above projects, communicated progress at weekly stand-up meetings

City of Bellevue, Bellevue, WA   **Aug 2020 – Jul 2021**
Community Development Intern
- Primary builder and administrator for the Bellevue Essentials platform on the Engaging Bellevue website
- Co-hosted Bellevue Essentials, a 9-week introductory program to city government for Bellevue residents alongside government neighborhood liaisons; provided insight on potential improvements to city programs
- Communicated with every department head to organize their department's session in Bellevue Essentials
- Conducted in-depth research on multi-family housing in nearby cities, documented trends/data in a large spreadsheet

LEADERSHIP & SERVICE

Street Soul Dance Group, Dartmouth College   **Sep 2021 – Present**
Vice President – Social, Choreographer
- Organize 9 team-bonding events over the year, increased community spirit and closeness of team
- Choreographed the opening dance for multiple shows

Solace and Solidarity, Bellevue, WA   **Mar 2020 – Jun 2021**
Co-founder of student initiative, co-editor, head of social media
- Designed and built website platform, write/publish monthly issues (stories, blogs) to amplify marginalized voices; interviewed non-profit organizations, healthcare workers, activists, undocumented immigrants, etc.
- Expanded team to 10 members, began branches in 4 states; issues feature voices from 11 states, 4 countries; garnered 10k reads; featured on Pacific MUN conference, Motley Zoo, Operation Smile websites

SKILLS

Computer/Technical: Proficient in GitHub, C, Python, Java, JavaScript, HTML, React, Microsoft Office, Unix
Languages: Fluent in Mandarin