Guanghao (Gary) Wei

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EDUCATION

University of Massachusetts Amherst   **May 2022**

B.S. double major in **Math** *&* **Computer Science**   GPA: **3.975/4.0** (Major GPA: **4.0**)
Relevant Courses: Machine Learning, Computer Network and Network Security, Game Programming (Unity)
IoT, Scientific Computing, Mathematical Modeling

Beijing No.4 High School, China   **May 2018**

PROJECTS

FMol   **Summer 2020**

- A simplified **Drug Discovery** pipeline with **Machine Learning** -- generating SMILE molecular with AlphaSMILES (2x GRU), predicting protein structure with AlphaFold, and checking the druggability with fPocket/Amber.
- Open source at *https://github.com/garywei944/FMol*

ReachOUT   **Spring 2020**

- ReachOUT is a platform that helps UMass students find career advisors.
- I was in the **Cloud team** working on deploying the dynamic website to the **AWS serverless services**.
- The project was transferred to **UMass CICS Career Department** because of its high quality.

COMPUTER SKILLS

Language & Framework
- Proficient in: **C/C++, C#, Python, Latex, Java, MATLAB, HTML**
- Experienced in: **R, JavaScript**
- Proficient in: **AWS Serverless Deployment**

Software & Platform
- Proficient in: **Win10, macOS, Linux (Ubuntu)**
- Proficient in Game Development with **Unity**
- Proficient in Data Analysis with **Anaconda**

COMPETITIONS & AWARDS

34th & 35th JCK Math Competition   **Apr 2019 & 2020**

- **2nd Place** in 34th & 35th Annual Jacob-Cohen-Killam Mathematics Competition
- **$1,000 Awarded** each time. Similar competition with **IMO** (International Mathematical Olympiad)

ASA Five College DataFest 2019   **Mar 2019**

- **Process** and **Analysis** big physical data from The Canadian National Women's Rugby Team with **R.**

EXPERIENCE

Member of UMass CSSA (Chinese Students and Scholars Association)   **Sep 2018 – Present**

- Organizer of events "2019(and 2020) Spring Festival Gala" and "Campus Singer Competition"