**Buzz Wang**

**PhD Management Consulting**

**Resume**

Atlanta, GA | buzzgrad@gatech.edu | (111) 234-5555 | https://www.linkedin.com/in/buzzwang/

**EDUCATION**

**Georgia Institute of Technology**, Atlanta, GA Expected Dec. 2024

*Ph.D. in Chemical and Biomolecular Engineering, GPA: 3.9/4.0* | GRE Quan: 168, Verbal: 158

* **Selected Awards:** NSF Graduate Research Fellowship (2020-2022), Exemplary Academic Achievement (2023)

**University of California, Berkeley,** Berkeley, CA May 2018

*Bachelor of Science, Chemical Engineering*, *GPA: 3.8/4.0*

* **Concentration**: Biotechnology

**SELECTED RESEARCH EXPERIENCE**

*Graduate Researcher,* **Georgia Institute of Technology**, Atlanta, GAJan. 2019 – Present

* Develop advanced machine-learning models for fluid analysis, focusing on thermodynamics and phase behavior
* Lead multiple cross-university collaboration research projects with 4 graduate researchers and 2 postdocs
* Collaborate with a Principal Investigator to submit 5 grant proposals and secure a total of $ 5+M to fund projects
* Train and mentor 5 undergraduate students in conducting lab and computational research in Chemical Engineering
* Published 2 peer-reviewed research articles as first or second author in top-tier journals such as ACS Chemical Biology

*R&D Intern,* **Merck,** Rahway, NJJune. 2022 – Aug. 2022

* Developed and validated thermodynamic models to support drug formulation design, resulting in a 20% increase in cost-effectiveness and enhanced production efficiency
* Evaluated the cleaning processes for 5 pharmaceutical products and proposed enhanced procedures for product safety
* Presented research results at national and international conferences to researchers ranging from 70 to 120 participants

*Research Assistant,* **University of California, Berkeley,** Berkeley, CA May 2017 – Aug. 2018

* Conducted exploratory research involving the computational investigation of peptide design with graduate researchers
* Collaborated with teaching faculty to design and facilitate undergraduate laboratory sessions for over 20 students

**LEADERSHIP & COMMUNICATION EXPERIENCE**

*Consulting Member,* **Georgia Tech PhD 2 Consulting Club,** Atlanta, GAFeb. 2023 – May. 2023

* Led 3 team members to join a Biotech and Healthcare Case Competition and won second place (out of 55 teams)

*Teaching Assistant,* **Georgia Institute of Technology,** Atlanta, GAJan. 2021– May 2021 & Feb. 2022 – May 2022

* Courses taught: Introduction to Thermodynamics and Machine Learning and Thermodynamics
* Designed and conducted lab sessions for a total of 60+ undergraduate students in thermodynamics, facilitating hands-on experiments to enhance their practical understanding of the subject
* Designed and led lab sessions for a total of 60+ undergraduate students on thermodynamics to help conduct experiments
* Provided guidance to 10+ students individually per week on assignments and final projects during regular office hours

*Science Content Reviewer,* **Chem EdTech Startup,** RemoteMar. 2018 – May. 2019

* Reviewed and structured the online learning platform content tailoring for high school students in science courses
* Managed a team of 3 subject matter creators specializing in science subjects such as Chemistry, Statistics, and Physics

**SELECTED PUBLICATIONS (out of a total of 5,** Google Scholar link**)**

* **B. Wang**, M. Smith, K. Yue, and A. Knight. Combining Machine Learning with Computational Thermodynamic Modeling of Fluid Mixtures, *ACS Chemical Biology,* 2023, 16(5), 21877-21893.
* L. Zhang, M. Kuniz, and **B. Wang**. Exploring Advanced Machine Learning Techniques for Enhanced Molecular Thermodynamics Analysis and Insights, *Journal of Chemical Physics,* **2021**, 14(2), 1870-1892.

**SKILLS & INTERESTS**

* **Programming & Software**: Python, MATLAB, C, R, Linux, Microsoft Office
* **Languages**: Chinese (Native), French (Intermediate), Portuguese (Beginner)
* **Interests**: Yoga (certified yoga instructor), painting, cooking