Chi Huynh

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Curriculum Vitae

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Education

MS **University of Colorado Boulder** | 3.94 GPA — August 2021 – Present (Anticipated: 05/23)
Computer Science

BS **University of Colorado Denver** | 3.45 GPA — August 2008 - May 2013
Chemistry | Certificate: American Chemical Society
Biology

Projects

Random Search Strategies In Herbivores, Carnivores, and Omnivores 2021

Recent research has shown that animals move through unfavorable and extremely variablable enviromental conditions using random search strategies, specifically the one simulated by composite correlated random walk (CCRW) model. Utilizing R and eight animal datasets from MoveBank, we explored the effectiveness of CCRW and Levy walk on three different dietary preference: herbivores, carnivores, and omnivores. We determined that the CCRW remains as the better model to depict movements when compared to Levy walk, regardless of diet.

Stellarium *Code Contributer* 2020

Stellarium uses OpenGL to render realistic images of the sky, in real time, straight from the comfort of your computer. After teaching myself Qt, I successfully merged pull requests made by the Stellarium community. I implemented a recent search function for ease of usability and updated the user's manual to reflect the changes. Also, activated a sorting mechanism that was shown to be helpful.

Skills

Programming

- Python
- C/C++
- Scala
- Java
- R
- Matlab
- SQL
- MS Access
- SciPy
- NumPy
- sklearn
- Qt
- Git
- Linux

Coursework

Undergraduate

- Computer Science 2: Data Structures
- Discrete Structures
- Principles of Programming Languages
- Computer Systems
- Discrete Structures Workgroup
- Algorithms

Graduate

- Introduction to Data Science with Probability and Statistics
- Probabilistic Models
- Cybersecurity
- Machine Learing (Spring 2022)
- Dynamic Models in Biology
- Natural Language Processing
- Design and Analysis of Algorithms
- Big Data Architecture (Spring 2022)

Industry Experience

SGS (Wheat Ridge, CO)
Volatile Organic Department
Analytical Chemist May 2016 – May 2019
Excels at method development to troubleshoot, update standard operating procedures, and enhance workflow to remedy current or potential issues.

Organic Department
Laboratory Technician August 2015 – May 2016
Cautiously performed numerous EPA methods including drinking water, wastewater, and soil with great accuracy.

UCHealth (Colorado, United States)
Physical Therapy and Rehabilitation Clinic
Patient Access Representative August 2012 – August 2015
Ensured the patients are top priority. I did this by integrating patient's request into my workflow, which created and maintained a positive relationship. Greet patients, answer phone calls, order supplies, check and request insurance authorizations, and schedule appointments.

Undergraduate Pre-Health Program
Student Internship May 2012 – May 2013
I shadowed various departments at UCHealth during the summer, which gave me valuable insights about the health care field. Throughout the year, I attended monthly workshops about the medical field and discussed topics involving health disparities.

Teaching Experience

University of Colorado (Denver, CO)
Organic Chemistry Lab I, *Teaching Assistant* August 2011 - May 2013
Responsible for preparing and leading weekly lectures, demonstrated laboratory techniques, and assisted students through their experiments. Also, I wrote quizzes and graded assignments.

Biochemistry, *Grader* August 2012 - May 2013
Assisted in grading assignments and held office hours to help students by working through problems as a group.

Research Experience

University of Colorado Anschutz Medical Campus (Aurora, CO)
Biochemistry and Molecular Genetics
Undergraduate Research Assistant - Internship August 2009 - August 2011
Successfully expressed, refolded, purified, and analyzed various proteins and peptides with results published in Protein Science.
Principal Investigator: Elan Eisenmesser, PhD

Publications

Kendrick, Agnieszka A., Michael J. Holliday, Nancy G. Isern, Fengli Zhang, Carlo Camilloni, **Chi Huynh**, Michele Vendruscolo, Geoffrey Armstrong, and Elan Z. Eisenmesser. The dynamics of interleukin-8 and its interaction with human CXC receptor I peptide. In *Proceedings of the Protein Science 23.4*, (2014).

Affiliations, Awards, and Honors

Gamma Sigma Epsilon National Chemistry Honor Society Phi Beta Chapter
President: August 2011 - May 2013
Vice President: May 2011 - August 2011

American Chemical Society (ACS)
Member: August 2008 - Present

University of Colorado Denver Chemistry Club
President: August 2011 - May 2013
Member: August 2008 - August 2011

ACS - Green Chemistry Award
2008