Chi Huynh

chithihuynh@gmail.com Curriculum Vitae

☎ (720)984-0308 ⌕ github.com/chithihuynh ⌂ 5040 Buckingham Road
Boulder, CO 80301 USA
🔗 chithihuynh.github.io in linkedin.com/in/chi-t-huynh

EDUCATION

MS	**University of Colorado Boulder**	3.94 GPA Computer Science	August 2021 – Present (Anticipated: 05/23)
BS	**University of Colorado Denver**	3.45 GPA Chemistry	Certificate: American Chemical Society Biology	August 2008 - May 2013

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 SQL Server	• SciPy	• NumPy	• sklearn	• Qt
• Git	• Linux	• Window	• MacOS	• JavaScript	• HTML

COURSEWORK

Undergraduate

- Computer Science 2: Data Structures
- Discrete Structures
- Principles of Programming Languages
- Introduction to Data Science with Probability and Statistics

- Computer Systems
- Discrete Structures Workgroup
- Algorithms

Graduate

- Dynamic Models in Biology
- Natural Language Processing
- Design and Analysis of Algorithms
- Big Data Architecture (Spring 2022)

- Probabilistic Models
- Cybersecurity
- Machine Learing (Spring 2022)

EXPERIENCE

SGS (Wheat Ridge, CO)
Volatile Organic Department
Analytical Chemist May 2016 – May 2019
Organic Department
Laboratory Technician August 2015 – May 2016

UCHealth (Denver, CO)
Physical Therapy and Rehabilitation Clinic
Patient Access Representative August 2012 – August 2015
Undergraduate Pre-Health Program
Student Internship May 2012 – May 2013

University of Colorado Denver (Denver, CO)
Chemistry Department
Teaching Assistant | Grader August 2011 - May 2013

University of Colorado Anschutz Medical Campus (Aurora, CO)
Biochemistry and Molecular Genetics | Principal Investigator: Elan Eisenmesser, PhD
Undergraduate Research Assistant | Internship August 2009 - August 2011

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).