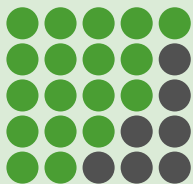




SKILL

Programming Language

Python
SQL
C
Java
JavaScript



Linguistics

Vietnamese
English
French



CONTACT

+33605672107
doducanh2810@gmail.com

DO DUC ANH

EDUCATION

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Université Grenoble Alpes | 2021 - 2024, France

International option in mathematics and computer science.

Curriculum is half in English, half in French.

LINGUISTIC HIGH-SCHOOL MAJOR

Foreign Language Specialized School | 2017 - 2020, Vietnam

Major in French. Minor in English.

EXPERIENCE

RESEARCH INTERN

TIMC Laboratory | Summer 2022, France

Developed Python scripts to automate the visualization of biological data revolving around prokaryotic organisms and their secretion systems.

- Created interactive sunburst charts (Plotly) to visualize the hierarchical organization of prokaryotic organisms.
- Built interactive dashboards (Plotly/Dash) to summarize, analyze and extract the number of secretion systems annotated by MasyFinder across thousands of organisms.
- Generated publication-quality sequence-annotation plots from the data mined by MasyFinder.

The visualizations identified multiple sampling/research biases over different groups of organisms.

All code was well documented and proved to be highly reusable.

The results were integrated into the lab's data pipeline.

RESEARCH INTERN

G-SCOP Laboratory | Summer 2023, France

Analyzed a randomized algorithm used for finding a maximum stable subset in Circle-Plus-Triangles graphs.

A Cycle-Plus-Triangle graph is a graph of t disjoint triangles and a Hamilton on the $3t$ vertexes. It is proven to have a 3-coloring. However, there is no known efficient algorithm to even find a maximum stable subset of size t .

- Managed to prove almost-sure termination in expected quadratic time for simple instances where the all the triangle has the same form. This was the original goal of the internship.
- Proposed new instances that have worse experimental runtime than all previously known instances by the researchers.

RESEARCH INTERN

GIPSA Laboratory | Winter 2023, France

Investigate frequently-omitted ending consonants in spontaneous Vietnamese speech. The internship is divided into three main missions:

- Labeling recording using TextGrid files manually and automatically with Whisper.
- Writing scripts to extract data from Praat.
- Performing statistical inference on the extracted data.