

# VY K PHUNG

CURIOUS ABOUT HOW TECHNOLOGY CAN APPLY TO BIOLOGY

Carlisle city, PA, USA

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## ABOUT ME

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**Technical Skills:** Python, R, Linux, Google Colab, Git, Biostatistics, HTML

**Soft Skills:** Self-learning, Intellectual Curiosity, Proactive, Problem Solving, Persistent

**Interests:** Standup Comedy, Reading, Coding, Molecular Biology, Self-learning on Coursera, Badminton

## EXPERIENCE

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### Intern

11/2020-06/2021

Biomedical Research Center Pham Ngoc Thach University of Medicine

Ho Chi Minh, VN

- Run Chi-squared test, regression analysis in SPSS to analyze a pilot research project: "Examination of The Correlation of Antibiotic Resistance in Farmers Who Were Treated with Cancer Therapy" and made a report
- Collect and preprocess data from Oncology Hospital using excel; do descriptive analytics in SPSS for the number of antibiotics used before and after bacteria culture test so that the hospital can have a better strategy for using antibiotics

### Intern

12/2020-01/2021

Oxford University Clinical Research Unit – OUCRU

Ho Chi Minh, VN

- Learn bacterial bioinformatics using Linux command line in Oracle Virtual Box
- Install genomic tools by Anaconda and create conda environment for E.coli genome sequencing analyses: FastQC; SPAdes for Assembly; Abacas for Ordering contigs; BRIG for Comparative genome analyses; ARIBA for Resistance genotyping
- Be trained to use ROARY, Snippy and Fast tree or Raxml to build phylogenetic tree and visualizing it on ITOL or Phandango

### First aid trainee & infographic designer

10/2018-04/2019

Vietnam Social Health Revolution

Ho Chi Minh, VN

- Participate in first aid training and support Medical students to organize a first aid seminar at RMIT university Ho Chi Minh city, including: think main interactive games, guide participants on first aid so that they can easily understand
- One of the first contributors in infographic design for Healthcare Book project

## PERSONAL PROJECTS

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### Practice basic Machine Learning

Cancer diagnosis using Machine Learning model

- Project link: <https://github.com/vy-phung/Cancer-diagnosis.git>

### Practice genomic data science

RNA-sequence re-analysis for the correlation of differential gene expression between fetal and adult brains

- Project link: <https://github.com/vy-phung/genomic-data-science-project-about-fetus-and-adult.git>

### Data analysis Medical Appointment

Analyze if SMS\_received is associated with customers showing up or not in Medical Appointment

- Project link: <https://github.com/vy-phung/Data-analysis.git>

## EDUCATION

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### Le Hong Phong High School for the Gifted

High school graduation of class specialization in Mathematics

Ho Chi Minh, VN

2017-2020

### Dickinson College

Carlisle, PA, USA

2022-Present

- Bachelor's degree, Biochemistry and Molecular Biology, Computer Science

- Relevant coursework:

Microbiology and Immunology, Principles of Object-Oriented Design (Java)

Ocean Ecology, Tools and Techniques for Software Development (Github, Docker, Linux etc.)