VY K PHUNG

PASSIONATE ABOUT BIOLOGY ~ STATISTICS ~ DATA SCIENCE

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ABOUT ME

Technical Skills: Python, R, SQL, Linux, Excel, SPSS, RStudio, Google Colab, Jupyter Notebook, IBM Db2, Statistics, Git, Biostatistics, HTML, Dash Plotly
Soft Skills: Thinking through sandbox method, Intellectual Curiosity, Proactive, Creativity, Problem Solving
Interests: Reading, Epigenetics, Non-coding genes, Standup Comedy, Board game, Ig Nobel, Badminton, Psychology, Conan Detective

EXPERIENCE

Intern
Biomedical Research Center Pham Ngoc Thach University of Medicine

11/2020-06/2021
Ho Chi Minh City

- 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
- Learn basic microbiology, antimicrobial resistance and basic biostatistics

Intern
Oxford University Clinical Research Unit – OUCRU

12/2020-01/2021
Ho Chi Minh City

- 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
Vietnam Social Health Revolution

10/2018-04/2019
Ho Chi Minh City

- 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

Logistics volunteer, surveyor & Health section writer
Hoa Hoc Tro Magazine

05/2018-02/2019
Ho Chi Minh City

- Thu Thach Kim Cuong competition: Main leader of logistics; contact journalism clubs' leaders of high schools in Ho Chi Minh city; invite guests. Result: The competition attracted 100 potential contestants
- Listen people's stories, write, and advise to sexual health, sexual orientation, psychology…topics that teenagers are interested in and relate to Health section
- Survey primary school students about 12 zodiac signs magazine

PERSONAL PROJECTS

Breast Cancer Diagnosis
Cancer diagnosis using Machine Learning model

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

Personal 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

Le Hong Phong High School for the Gifted
High school graduation of class specialization in Mathematics

Ho Chi Minh city
08/2017-08/2020