



NGUYỄN TRẦN THẾ HÙNG

Bioinformatician



Male



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Personal statement



A Doctor of Medicine with a Biomedical Science Master degree, expertise in genetic analysis. My research interest are related to genetic material and human disease. I want to contribute to the effort of applying scientific discoveries in the genetic field to betterment of human healthcare.

Relevant experience



9/2019-NOW

Bioinformatician – computational biology department, Vin Big Data Institute (Hanoi, Vietnam)

Description:

- Take part in current research project: database of genomic variation for Vietnamese (DGV4VN)
- Responsible for genotype imputation from Vietnamese data reference panel and medical relevance of DGV4VN sequencing data.
- Take part in the sample collection phase for genome asia 100K research project (co-operation), prepare DNA-sample quality criteria and collect meta-data of participants in the study.

9/2017-6/2019

Researcher – Genetic Center, China Medical University (Taichung, Taiwan)

Outline: Take part in scientific project. Research current development of genetic technology and healthcare application. Devise original idea for the thesis.

Description:

- Comprehend the current research on Genome Wide Association Studies, Next generation sequencing.
- Write a thesis on application of genetic variants in predicting the risk of kidney complication in diabetic patients.
- Fluency in English communication and scientific writing.

Achievement:

- Grade A master degree in Biomedical Science
- Poster presentation in the 34th joint annual conference of Biomedical Science (2019. Taipei, Taiwan)

2/2017-7/2017

Pediatrician – Tan Binh district Hospital (Ho Chi Minh city, Vietnam)

Outline: Diagnosing and providing treatment for children. Examine patient issues, and refer to specialist in complex cases for timely medication.

Description:

- Expertise in determining good clinical decisions and appropriate counseling advices from textbook and scientific sources.
- Ability to work in a team and possess excellent interpersonal skills even with a stress environment.

Education



2017-2019

China Medical University (Taichung, Taiwan)

Master degree in Biomedical Science

Classification: Grade A - GPA: 4.11

2010-2016

Ho Chi Minh city university of Medicine and Pharmacy (Vietnam)

Doctor of Medicine degree in general medicine.

Classification: Average Good

Core skills



Foreign language

English:

- Fluency in communication.
- Comprehensive reading and writing in scientific language.

French and Chinese: communication level

- Ability to learn new thing and adapt to foreign environment

Informatics and
Bioinformatics

Programming language:

- Shell: develop pipeline to run genotype imputation
- R-language: various statistics task to compute result and plotting data for scientific paper. Familiar with Bioconductor.
- Enough flexibility to include other programming language (python, mysql) in the script if the task required

Others:

- Have experience with genetic database to query data: Human Gene Mutation Database, clinvar, ensemble
- Have experience with working with big sequencing and genotyping files on remote server

Expertise in scientific
study

- Background in medicine and genetics research.
- Teamwork, completing small tasks in big project, reporting result.
- Experience in conducting experiment and analysis.

Conference participation



- **Attended** International Conference on Biomedical Sciences & the 15th Symposium of the Frontiers of Biomedical Sciences (2018); China Medical University (Taichung, Taiwan)

- **Poster presented** at The 34th Joint Annual Conference of Biomedical Science (2019); Taipei, Taiwan. Title: Candidate Genes Association Study of Putative Enzymes of the Tricyclic Acid Cycle (Fumarase, Succinate Dehydrogenase, Aconitase) and Diabetic Nephropathy in Taiwanese Population.

Scientific paper



- Pending review: "Analysis of family-based exome sequencing data from Vietnamese population reveals new genes and variants associated with autism" for possible publication in Journal of Autism and Developmental Disorders.
- First author of review article: "Development and Implementation of Polygenic Risk Score in Vietnamese Population" in Journal of Research and Development on Information and Communication Technology, DOI: 10.32913/mic-ict-research.v2019.n2.893
- Work in progress: "Deep whole genome sequencing of 1000 vietnamese individuals" with colleagues from Vinbigdata. Contribute to the genotype imputation and medical relevance section of this paper.