Finn Lab

Shinyoung Ko

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EDUCATION

Lenawee Christian School – 2009

Adiran, MI

       High School

A.A. Santa Monica College – 2012

Santa Monica, CA

       General Science (Biology)

B.S. State University of New York at Stony Brook – 2014

Stony Brook, NY

       Biology (Developmental Genetics)

INTERNSHIP AND RESEARCH EXPERIENCE

Seoul National University of College of Medical Science (Genomic Medicine Institute)   Jun 2013

•Learned human whole genome sequencing through a pipeline

•Constructed a report comparing LDL-Cholesterol candidate genes between Asian and European families through the Linkage Study

•Collaborated with other interns to create presentations about transcriptome and genome sequencing

The State University of New York at Stony Brook Department of Ecology and Evolution   Aug 2013

•Participated in Yeast gene expression analysis using a program language R

•Research Assistant

WORK EXPERIENCE

Yonsei University College of Dentistry   Sep 2019 – Dec 2020

Teaching Assistant & Research Assistant

•Gave lab lectures and leading lab course - Histology

•Performed Developmental Biology experiments – Gene cloning, PCR, In-situ hybridization, mouse experiments, and so on

Korea University College of Medicine   Jan 2021 – April 2021

Research Assistant

•Analyzing Polycystic Kidney Disease patients with targeted sequencing (KCDC)

CHA University   May 2021 – Dec 2021

Researcher

•Analyzing bulk RNA-seq Data

Basgenbio   Feb 2022 – present

Researcher

•Mendelian Randomization Analysis with drug mimic SNP

TEACHING EXPERIENCE (Teach in English)

YBM   Jul 2014 – Jun 2016

International school Math/Biology tutor

•Instructing international school/foreigner school students from grade 2 through grade 12

Private Tutor   Jul 2016 – Present

International school Math/Biology tutor

•Instructing international school/foreigner school students from grade 2 through grade 12

•Pre-Algebra, Algebra1, Algebra2, Geometry, Pre-calculus, AP Calculus AB, IB Math SL AI

•Biology, AP Biology

PUBLICATIONS

Book

An editorial department. *Exchange Students' Culture Shock: New Me*. Cheil Languge (2008)

PATENTS

Ko, Shinyoung. 2022. Drug clinical trial simulation system using drug effect prediction SNP-based gene score and method therefor. Republic of Korea Patent PATENT-2022-0066854, filed May 31, 2022. Patent pending