Dong-Jo (Dongjo) Ban

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EDUCATION

Georgia Institute of Technology | Atlanta, GA
Master of Science in Bioinformatics, 4.0/4.0 GPA, Dec 2018 (Expected)

The Ohio State University | Columbus, OH
Bachelor of Science in Computer & Information Science (Minor in Statistics), May 2017

TECH SKILLS (Basic Proficiency Marked with *)

Languages: Python, R, Bash, Perl, Java*, SQL*
Technologies: Unix/Linux, RStudio, Eclipse, MySQL

RESEARCH EXPERIENCE

Research Technician I (Tech Temp), May 2018 - current
McDonald Lab, School of Biological Sciences | Atlanta, GA

Under supervision of Dr. John McDonald.

- Examining allele-specific expression (ASE) in cancer cell lines and ovarian cancer patients using whole-exome and RNA sequencing data.
- Investigating impact of epigenetic mechanisms on ASE in cancer cell lines by integrating bioinformatics approaches and wet lab experimentations.

Graduate Research Assistant, Aug 2017 - current
Jordan Lab, School of Biological Sciences | Atlanta, GA

Computatational Pipeline For Predicting Metabolites With Anticancer Properties

Under supervision of Dr. King Jordan. Project in collaboration with Dr. Jeffrey Skolnick. Developed a computational method for predicting change in metabolite level in cancer cells in comparison to normal cells.

- Extracted and reformatted data from various sources (GEO, KEGG, HMDB, etc.) for analysis.
- Performed gene expression analysis on microarray and RNA-Seq data.

Student Intern, Jun 2016 - Apr 2017
Department of Biomedical Informatics | Columbus, OH

Retrospective Analysis of Drug Repurposing Hypotheses in Melanoma Using EHR Data

Under supervision of Dr. Philip Payne and a MD/PhD student. Determined the effects of non-melanoma drugs, including statins, beta-blockers, and NSAIDS, on patients' survival through a retrospective analysis of electronic health record (EHR) data.

- Pre-processed EHR, administrative, and other related data for analysis.
- Integrated EHR and administrative data to determine drug exposure of the patients.
- Developed algorithms for covariate detection within patients' records, including melanoma stage and surgical therapy.
- Evaluated survival outcomes using Cox-Regression models.

Manuscript in Preparation
Regan K, **Ban D**, Kil J, Gascon G, Latchana N, Suarez-Kelly L, Pinette A, Li F, Carson WE, Payne PRO, **Retrospective Analysis of Electronic Health Record and Administrative Data for Drug Repurposing Hypothesis Evaluation in Melanoma**

WORK EXPERIENCE

Grader, Aug 2016 - Dec 2016
Department of Computer Science and Engineering | Columbus, OH

Graded written and lab assignments under the supervision of a faculty member. Held office hours for responding to students' questions on class materials as well as assignments. Assisted faculty member during department's accreditation process in 2016 by reviewing and reporting students' performances on assignments.

Peer Advisor, August 2015 to January 2017
Office of International Affairs | Columbus, Ohio

Assisted incoming international freshmen and transfer students during the check-in process. Made copies and kept record of over 500 immigration documents. Scheduled necessary appointments for international students.

Republic of Korea Army, July 2012 to April 2014
202 Security Guard | Seoul, South Korea

LEADERSHIP

Global Leadership Initiative (Aug 2016 - May 2017), Cohort Member
Korean International Student Organization (Aug 2015 - Aug 2016), VP
Office of International Affairs (Jul 2015 - Jan 2017), Peer Advisor
Sigma Pi Fraternity – Gamma Chapter, Founding Father