Yan Chak (Richard) Li

Bioinformatician

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EXPERIENCE

ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | BIOINFORMATICIAN
Nov 2019 – Current | New York, United States of America
- ➔ Developing ensemble machine learning methods to analyze multimodal biomedical data
- ➔ Analyzing clinical cohorts by machine learning techniques
- ➔ Teaching assistant of 'Machine Learning for Biomedical Data Science' (Spring I 2020 & 2021)

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY | CONSULTANT
Aug 2019 – Oct 2019 | Clear Water Bay, Hong Kong
- ➔ Developing Smart Fever Screening System by integrating stereo & thermal camera
- ➔ Enabling localization of people potentially having fever

HONG KONG TELECOMMUNICATION LIMITED | SUMMER INTERNSHIP
Jun 2015 – Aug 2015 | Quarry Bay, Hong Kong
- ➔ Summarizing up-to-date anti-DDoS solution

PUBLICATION/PREPRINT

INTEGRATING MULTIMODAL DATA THROUGH INTERPRETABLE HETEROGENEOUS ENSEMBLES
Li YC; Wang L; Law J; Murali TM; Pandey G. bioRxiv 2022 Jan 15, doi:
https://doi.org/10.1101/2020.05.29.123497

MACHINE LEARNING-DRIVEN IDENTIFICATION OF EARLY-LIFE AIR TOXIC COMBINATIONS ASSOCIATED WITH CHILDHOOD ASTHMA OUTCOMES
Li YC, Hsu HL, Chun Y, Chiu PH, Arditi Z, Claudio L, Pandey G, Bunyavanich S. J Clin Invest. 2021 Nov 15;131(22):e152088. doi: 10.1172/JCI152088.

DEVELOPING BETTER DIGITAL HEALTH MEASURES OF PARKINSON'S DISEASE USING FREE LIVING DATA AND A CROWDSOURCED DATA ANALYSIS CHALLENGE
Sieberts SK, Henryk B., ..., Li YC,..., Omberg L, medRxiv 2021.10.20.21265298; doi:
https://doi.org/10.1101/2021.10.20.21265298

CLINICAL FEATURES OF COVID-19 MORTALITY: DEVELOPMENT AND VALIDATION OF A CLINICAL PREDICTION MODEL
Yadaw AS, Li YC, Bose S, Iyengar R, Bunyavanich S, Pandey G. Lancet Digit Health. 2020;2(10):e516-e525. doi:10.1016/S2589-7500(20)30217-X

CONFERENCE PRESENTATION

AUTOMATIC INSTANCE-EDGE DETECTION NETWORK (AID-NET) - VERTEBRAL EDGE DETECTION BY DEEP LEARNING
Li RYC, Chin NJW, Wang Y, So RHY. European Society for Clinical Investigation Congress (ESCI Congress) 2019, Coimbra, Portugal, May 2019.

FAST SIMILARITY MEASURE OF SWATH-MS BY COSINE SIMILARITY OF RANDOM PAIRS (CS-RP).
Li YC, Wu L, Lam H. Oral Presented at Asia Oceania Mass Spectrometry Conference (AOMSC) 2017, Biopolis, Singapore, Dec 2017.

AN EFFICIENT AND ACCURATE FEATURE-BASED LABEL-FREE QUANTIFICATION SOFTWARE TOOL FOR SWATH MS DATA.
Wu L, Li YC, Lam H. 15th Human Proteome Organization World Congress, (HUPO 2016), Taipei, Taiwan, Sep 2016

EDUCATION

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY
M.PHIL. IN BIOENGINEERING
2019 | Hong Kong

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY
B.ENG. IN COMPUTER ENGINEERING, MINOR IN MATHEMATICS
2017 | Hong Kong

SKILLS

PROGRAMMING

Proficient:
Python • R
Experienced:
CUDA C • C++ • Java • javascript • LATEX

REVIEWER

ACM-SIGKDD 2022 • ISMB 2022 • ACM-BCB 2021, 2022 • IEEE BigData 2020

REFERENCES

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gaurav.pandey@mssm.edu

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