JUNYI CHEN

G7310, YEUNG Academic Building, City University of Hong Kong
junyichen8-c@my.cityu.edu.hk
+852 53058149

EDUCATION

City University of Hong Kong Sep 2017 - Present
PhD of Computer Science
Department of Computer Science

City University of Hong Kong Sep 2016 - Aug 2017
MSc of Computer Science
Department of Computer Science

Guangzhou University Sep 2011 - Jul 2015
BSc of Computer Science
Department of Computer Science

RESEARCH INTERESTS

Bioinformatics, Machine learning, Active learning, Matrix completion, Pharmacogenomics, Text mining, Deep learning.

RESEARCH EXPERIENCES

Machine learning on pharmacogenomics research Dec 2018 - Present
Research under progress

- Extract features from multimodal pharmacogenomics related datasets
- Fuse multimodal data to infer the drug taxonomy

Smart guidance on high-throughput screening experiments Mar 2018 - Nov 2018
Research under revision

- Designed a method to guide condition-target studies using high-throughput screening and automated robotics
- Applied active learning and matrix completion to solve the batch selection problem
- Achieved superior the proteins compound-effect dataset than the state-of-the-art.

Deep learning on social media text mining Sep 2017 - Mar 2018
Research published

- Build deep learning models for the task of sentiment analysis on social media comments
- Validate performances of different word embedding models on the deep learning model

Bio-medical text mining on disease references Mar 2017 - Aug 2017
Research assisted

- Build machine learning algorithms and cross validate performance to classify disease references from the OMIM/ORPH dataset.

Social media text mining Sep 2016 - Mar 2017
Research published

- Collected comments from the social media and annotate the sentiment label

· Build machine learning algorithms to classify social comments by their sentiment labels.

PUBLICATIONS

Chen, Junyi, Shankai Yan, and Ka-Chun Wong. "Verbal aggression detection on Twitter comments: convolutional neural network for short-text sentiment analysis." Neural Computing and Applications (2018): 1-10.

Chen, Junyi, Shankai Yan, and Ka-Chun Wong. "Aggressivity detection on social network comments." Proceedings of the 2017 International Conference on Intelligent Systems, Metaheuristics & Swarm Intelligence. ACM, 2017.

RELEVANT COURSES

Teaching Assignment Courses
Fundamentals of Data Science
Software Engineering Practice
Computer Networks

Core Courses
Machine Learning
Data Warehousing & Data Mining
Big Data Algorithms and Tech

AWARDS

Outstanding Academic Performance Awards (OAPA) 2018-2019
Award *City University of Hong Kong*

Research Tuition Scholarship (RTS) 2018-2019
Scholarship *City University of Hong Kong*

Distinction Banding for Taught Postgraduate Award Classifications 2016-2017
Award *City University of Hong Kong*

First class Academic Performance Awards 2014-2015
Award *Guangzhou University*

First class Academic Performance Awards 2013-2014
Award *Guangzhou University*

First class Academic Performance Awards 2012-2013
Award *Guangzhou University*

SERVICES

BioData Mining (Reviewer)
ICMLC 2019 (Reviewer)
BiCOB 2019 (Reviewer)
ISCMI 2018 (Conference Committee)
PIC 2018 (Reviewer)
ICMLC 2018 (Reviewer)
BiCOB 2018 (Reviewer)
DMBD 2018 (Reviewer)
BigCom 2017 (Reviewer)
ICSI 2017 (Reviewer)
ISCMI 2019 (Conference Committee)
ICBDE 2019 (Reviewer)
BigData 2018 (Reviewer)
BIBE 2018 (Reviewer)
SmartData 2018 (Reviewer)
BDET 2018 (Reviewer)
ABPC 2018 (Reviewer)
DSS 2017 (Reviewer)
DMBD 2017 (Reviewer)