

# The 8th Hong Kong University Student Innovation and Entrepreneurship Competition – Award List

## Innovation

### Energy, Environmental and Chemical Engineering

Award	Institution	Project Name	Name of Participant(s)
First Prize	CityU	Intelligent and Thermal-responsive Window for Indoor Thermal Management and Energy-saving in Buildings	Liu Sai, Du Yuwei, Zhu Yihao
Second Prize	CityU	Development of Lightweight and Flexible Perovskite Photovoltaic Modules for Photovoltaic Power Station	Li Zhen, Gao Danpeng, Zhang Chunlei, Wu Xin
	HKU	Distributed Voltage and Frequency Control of Fully Inverter Based Microgrids with High Renewable Energy Penetration	Cheng Yau Chung
Third Prize	HKBU	Battery-driven Rapid Hydrogen/ Oxygen Production System	Qin Ping
	PolyU	A Flexible High-Voltage Zn-Air Battery with All-in-One Acid-Alkaline Hydrogel Electrolyte	Zhao Siyuan
	HKU	Dynamic Assembly and Synergistic Control of Viscoelastic Networks and Biomolecular Condensates	Cui Huanqing
Merit Prize	CityU	Luminescent Metal-Organic Frameworks for Tunable LEDs	Man Ping, Leung Ka Ho, Chan Chi Ying
	HKU	Selective Separation and Wash-free Detection of Biomolecules Inside Aqueous Two Phase Droplets	Cao Yang
	HKU	Microplastic Particle Probing and Pollution Assessment with Intelligent Blind Vision	Zhu Yanmin
	HKUST	Functional BSG Cat Litter	Hui Lok Yung, Lee Shuk Hing, Man Kwan Yee, Ng Zhing Yu

## Information Technology

Award	Institution	Project Name	Name of Participant(s)
First Prize	IVE (Sha Tin)	Steaming Hub	Kwok Man Ho, Chan Wai Sze, Chan Man Him, Lee Tung Kin
Second Prize	HKUST	AI Inclusive Language Learning System	Fung Ka Yan, Cheng Cheuk Hong, Chu Tsz Ngai, Chan Wing Fu, Choi Cheuk Woon, So Sin Kwan
	IVE (Sha Tin)	Drag and Play-a No-code AR Experience Creation Tool	Lee Tsz Ting, Chan Yiu Keung, Ng Kwan Ho, Yeung Hang
Thrid Prize	EdUHK	Multi modal Sensor Handwriting Education System with AI in Dyslexia Detection	Wong Wai Leung
	PolyU	Storio-Creative Story Generator	Ma Yujun, Chan Yan Lung, Tong Shan Mang, Wang Yijie, Yao Jichen, Liu Mingci, Li Ho Yin
	IVE (Tsing Yi)	Early Stage Depression Screening and Monitoring System with Multi-modal NLP Analytics	Ho Yuk Lun Alan, Liu Kwan Lok, Tang Ching Him, Chung Chun Yin, Chow Chun Wang
Merit Prize	CUHK	Autonomous Robots Based Intelligent Defects Detection for Local Infrastructures Inspections	Liu Kangcheng
	CityU	News Intelligence Web Platform with Text Mining and NLP Techniques	Yang Kai Yam
	HKMU	Automated Interview via Chatbot	Shum Ka Ming, Tin Wai Ming, Wong Ka Ho, Cheng Wong Kwan
	CityU	Stress Detection by Monitoring Human Eyes, Irises, and Pupils with Mask R-CNN	Yip Ching Man

## Mathematics and Physics / Mechanics and Control Systems

Award	Institution	Project Name	Name of Participant(s)
First Prize	CityU	Structured Thermal Armor	Liu Fayu, Li Mingyu, Li Yuchao, Zeng Yijun
Second Prize	CUHK	A SMA-Driven MRI Compatible Neurosurgical Robot	Ding Qingpeng
	CUHK	Automatic Strawberry Pollination Robot for Indoor Horticulture	Lee King Hang Henry, Yiu Chi Ho
Third Prize	CUHK	A Robotic Cannula for Minimally Invasive Intracerebral Hemorrhage Evacuation	Junyan Yan, Chen Jibiao, Xue Jiaqi, Fang Haiyang, Yuan Sishen, Qiu Yufu
	CUHK	Integrated Magnetic Control of Anchoring and Drug Release for Wireless Capsule Robots	Yuan Sishen, Xue Junnan, Yue Wenchao, Chen Zixuan, Yan Junyan, Fang Haiyang
	CUHK	Handheld Flexible Robotic Surgical Endoscope for Confined ENT Space	Wang Xuchen, Yan Junyan, Ng Wee Shen, Xue Jiaqi
Merit Prize	HKUST	UAV Delivery System for Water Quality Surveillance	Lin Hin Wang
	CUHK	Magnetically-Connected Modular-Reconfigurable Mini-Robot Towards Minimally Invasive Procedures	Yue Wenchao, Tang Ruijie, Zhang Yameng, Yuan Sishen, Lai Jiewen, Yao Shilong, Chu Ruihang
	CUHK	Cubli	Ng Pui Hin
	PolyU	A Study on Benefits and Challenges of Adopting Modular Integrated Construction in Hong Kong	Lam Ka Ki

## Life Sciences

Award	Institution	Project Name	Name of Participant(s)
First Prize	CUHK	Enhanced Biosynthesis of Alpha Farnesene via Phase Separated Multienzyme Compartmentalization	Liu Min , Wang Yue
Second Prize	CityU	VirStrain: A Strain Identification Tool for RNA Viruses	Liao Herui, Cai Dehan
	CUHK	AANG: A Chinese Medicine Derived Natural Compound Formula for Overcoming Multidrug Resistance	Chan Kam Kwan, Chung Yat Fai, Li Siu Fan Jane
Third Prize	HKU	Spatial Transcriptomics Characterizes the Prognostic Value of the Tertiary Lymphoid Structure in Patients with Nasopharyngeal Carcinoma	Liang Yuteng, Leung Hoi Ching
	HKBU	Sclerostin Aptamer: A Novel Immunotherapy for the Treatment of TNBC	Sun Meiheng, Yi Sifan, Qiao Shuangying, Yang Xin
	CityU	Brain Signal Processing and Classification for Depth of Anesthesia	Tsan Tsz Ho, ELDALY Abdelrahman Bakr Mohammed-Abdelnaby
Merit Prize	PolyU	Mast Cells Are Identified in the Lung Parenchyma of Wild Mice, Which Can Be Recapitulated in Naturalized Laboratory Mice	Yeh Yu Wen, Wong Yi Huen, Liu Shuwei
	CityU	Screening and Development of Novel DNA Aptamers for Detection of Antibiotics in the Marine Environment	Lam Sin Yu
	HKU	A New Isogenic Syngeneic Model for the Study and Application of Metastatic Ovarian Tumor Cells in an Intact Immune System	Tsang Sum In
	CUHK	Surface and Air Disinfection with Atmospheric Non Thermal Plasma	Ng Hui Yin, Yim Ming Yeung Arthur, Li Fengsen, Leung Hing Chun

## Entrepreneurship

### Entrepreneurship Proposal

Award	Institution	Project Name	Name of Participant(s)
First Prize	HKUST	METAMORY	Lau Chuck Hei Raphael, Yu Cheuk Suen
Second Prize	HKU	Gene- to -Health Plus(G2H+)	Chen Guolan, Justin Tubbs
	PolyU	LIFESPARROW	Sugata AHAD, Su Meiling , D M Zahin SAJID, Max Jwo Lem Lee
	PolyU	Mutual Cognitive Human-Robot Collaborative Manufacturing System	Li Chengxi, Li Shufei, Fan Junming, Kwok Hin Chi, Tsang Chin Lok
Third Prize	CityU	A Portable System for the Rapid Enrichment and Separation of Microparticles from Liquid Samples	Zou Shangjie, Chen Chun Kwan, Li Yusong
	CityU	Immunity Factory - Cancer Immunology	Wang Xueying, Huo Miaoze, Liu Wei, Du Xiaoyue, Zeng Yanting, David Liu, Huang Jiayun, Lai Zhentao, Liu Jiahe, Zhang Wenjingyu
	HKU	A Perspiration Powered Biosensing Ring by Mobius	Yeung Tsz Yi, Minyeong Kim, Cheng Winfred Heinrich Sy
	PolyU	Intelligent Self -morphing and Stair -climbing Wheelchair	Ren Yu Xin, Yau Pang Yeung, Lam Yuen Yik, Cheung Kwok Hei, Tham Yeung Hei, Cai Shanshan, Jiang Tianming, Tang Zhiqing, Sein Jeong, Bian Muzhi
Merit Prize	CityU	Vision Carbon	Luo Hongqing, Liu Leyang, Li Jiyu
	CityU	COMPASS Medication Monitoring System	Yang Jiannan, Tian Lue
	CityU	Algo- Intelligent Algorithm Visualization Engine	Yang Shuo, Li Jing, Zhao Bingran, Zheng Yuchao, Zhou Chenxin, Wu Shiyi, Zhou Siyuan, You Ruike, Lv Mingxuan,
	HKU	The Phuture Phage Therapy to Battle Against Antibiotic-Resistant Bacteria	Lee Ka Yi, So Charlotte Theodora, So Ar Wou Joivia, Tse Cheuk Ying, Ng Wing Tung

## Startup

Award	Institution	Project Name	Name of Participant(s)
First Prize	CityU	Cryomicroneedles for Transdermal Cell and Drug Delivery	Ng Chelon Colin, Zheng Mengjia, Zhang Yuyue, Zhang Jitian
Second Prize	CUHK	A Novel Tissue Sectioning System for 3D Imaging and Drug Screening	Fu Xinlei, Zhong Qiuyuan, Xu Xiayi, Prof. Chen Shih Chi
	CUHK	Cable-driven Robot System for Inspection of High-rise Building Facade	Li Dickson Chun Fung, Leung Chun Ming, Chan Hing Cheung
	PolyU	iMeddy	Cheuk Ka Hou, Tsoi Kwok Chun
Third Prize	CityU	ZenxTag - Smart Food Label	Zhou Chuanwen, Chow Tsz Wing, Yang Yi, Prof. Lam Hon Wah
	HKUST	Point Fit : Sweat Sensor for Real-Time & Continuous Health Monitoring for Precautionary Diagnostics	Kenny Oktavius, Jack Chen, Reno Adley Prawoto, Feng Yuchen Prof. Gao Ping
	HKU	Smart EMG Clothing	Sun Chuying · Wang Xiaojun, Shu Zhentian, Chen Xianda
	CUHK	Hopebotics Limited	Shi Xiangqian, Xie Disheng, Su Yujie, Zhou Changqiu, Lam Yuk Hong, Ma Liqin, Prof. Tong Kai Yu, Prof. Li Zheng
Merit Prize	CUHK	Bubstal	Choi Ho Yin, Wong Hoi Shan, Chiu Lin Fung
	CityU	Ugly Duckling Online Ensemble Platform	Wan Xuefeng, Kwok Kin Man
	HKUST	Weshare Technology	Jiang Chen, Xu Nan, Wu Saier, Prof. Yang Jinglei

## Social Enterprise /Cultural & Creative Services

Award	Institution	Project Name	Name of Participant(s)
First Prize	HKUST	Breer Limited	Anushka Purohit, Naman Tekriwal, Suyash Mohan, Deevansh Gupta
Second Prize	PolyU	The All in One AI Based Knee Osteoarthritis Management System	Chan Lok Chun, Li Ho Hin, Keung Sum Yuet, Yip Hoi Ying, Li Pik Kei Tiffanie, Lau Sing Hin, Leung Yui Him, Wo Lok Yiu, Chan Ho Lam
	HKUST	Food with Benefits- Transforming Surplus Food into Innovative and Healthy Products	Lai Yat Sang, So Ka Hei, YORDANOV Matey Svetlan
	HKU	Follo	Wong On Yan, Dana Chloe Te, Ho Wing Tung, Zheng Meiyi, He Jinwen
Third Prize	HKUST	GOODTAKES	Cheung Ngai Yik, Li Hiu Man, Li Yung Lok
	HKUST	Daddy Know	Shing Man Yim, Kei Chi Ki, Au Wai Yin, Chen Ching Kei
	HKU	PyschoSupport	Wong Wing Yan, Chu Wang Yee, Lau Yu Yeung, Hung Yin Po
	HSUHK	GreenBoxer	Li Man, Yip Lai Ping, Lai Yun Chi, Chan Pak Lam
Merit Prize	CUHK	TheBiscuit	Chan Tak Keung
	HKU	Kongcept Tour	Cheung Ho Hang, Chu Man Fung, Hong Ching Wah
	CityU	Viata	Poon Wai Yin, Wong Wang Lik
	HKUST	CrossKnow	Su Ho Hung, Wong Nga Lap