

The 9th Hong Kong University Student Innovation and Entrepreneurship Competition – Award List

Outstanding Organization Award	Hong Kong Polytechnic University
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Innovation

Grand Prize	CUHK	A MR Safe RCM Constrained Robotic Needle with Bellow Based Hydraulic Actuators for Spine Procedure	Qiu Yufu, Yan Junyan, Chen Jibiao, Fang Haiyang
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Energy, Environmental and Chemical Engineering

Award	Institution	Project Name	Name of Participant(s)
First Prize	CUHK	From Packaging Materials to Meals: The Potential of Bacterial Cellulose as Sustainable Food Packaging	Jiang Zhuolun, Cheung Ka Man, Chong Hio Lam
Second Prize	CUHK	Pure Inorganic Based Silica Titania Hybrid Hollow UV Filter for Cosmetic Applications	Liu Liangdong
	CityU	Eco-Engineered Solutions for Artificial Shoreline Restoration	Thea Bradford
Third Prize	CityU	Low-Energy Electrolysis for Hydrogen Production from Urea-Containing Wastewater	Li Dan, Zhou Xiaomin
	HKU	Phase Separation-Induced Selective Concentration of Biomarker for Virus Rapid Antigen Tests	Cao Yang
	CityU	Development of Low Cost Smart Windows by Thermochromic Perovskite Solar Cells for Net Zero Electricity Generation	Zhang Chunlei, Gao Danpeng, GONG Jianqiu, Li Shuai, Liu Baoze
Merit Prize	HKBU	High Performance Hydrogen Evolution Catalyst Assisted Carbon Neutralization Byusing Carbon Dioxide	Qin Ping
	HKU	Hierarchical Compartmentalization of a Thermally Responsive Aqueous Two Phase System	Cui Huanqing
	CityU	A Biocompatible Mineral Hydrogel for All-in-one Charge Storage	Li Bo
	HKU	Ultra-low-cost and High-performance Aqueous Al-ion Batteries	Xia mingyu, Luo Shijing, Leong Kee Wah

Information Technology

Award	Institution	Project Name	Name of Participant(s)
First Prize	CityU	5G Assisted Emergency Rescue a Missing People Detector	Xiong Ningchang, He Jiaun, Li Morn, Zhao Chongyu
Second Prize	VTC (Sha Tin)	ZeroVio	Tsui Tik Wa, Cheung Wai Man, Mok Chun Yu, Lui Pok Man
	VTC (Sha Tin)	Dokodemo Call	Wong Chun, Yue Wing Cheuk, Ching Chun Hung, Chan Wai Yi
Third Prize	CUHK	Digital Commons The Role of Immersive Digital Twin and Gamification Technologies in Intergenerational Codesign of Public Spaces	Provides Ng, Yuechun Li, Bingge Xu, Shutong Zhu
	HKMU	Brain Computer Interface Feedback System for Dementia Patients	Ramsha Minhaj
	HKUST	Contractfy	Lau Yik Lun, Chan Tsz Ho, Cheung Pok To Jason, Wong Pui Shan
Merit Prize	VTC (Sha Tin)	Voice to Interior Design	Yuen Tat Shing BIlly
	PolyU	Water Drinking and Pill Taking Reminder	Tam Pak Sam
	PolyU	Openeye-- More than Navigation, Also Companionship	Yang Yuebo, Liu Mingci, Ma Yujun, Wang Zhuchen, Leung Hok Sze
	VTC (Tsing Yi)	Rehab-KG: The Knowledge-Graph Based Ai Community Rehabilitation Training and Treatment Support Platform	Leung Wan Chi, Fong Siu Hin, So Man Tik, Yi Wing Hei

Mathematics and Physics / Mechanics and Control Systems

Award	Institution	Project Name	Name of Participant(s)
First Prize	CUHK	A MR Safe RCM Constrained Robotic Needle with Bellow Based Hydraulic Actuators for Spine Procedure	Qiu Yufu, Yan Junyan, Chen Jibiao, Fang Haiyang
Second Prize	CUHK	A Semi Autonomous Handheld Robotic System with Ultrasound Based Visual Feedback and Shared Control for Pericardiocentesis	Yan Wanquan, Yan Kim
	CUHK	Handheld Hybrid Structure Robotic Surgical System for Confined Space ENT Surgery	Wang Xuchen, Ng Wee Shen, Vincent, Lin Hongbin
Third Prize	CUHK	Skullbot: MRI-Compatible Skull-mounted Robot for Needle Intervention	Fang Zhiwei, Gao Huxin
	HKU	A Component-Tunable Cold Atmospheric Plasma Chip for Multiplex-Treatment of Cells	Wang Fang, Zhou Liangyu, Fan Xiaoxue, Li Chang
	HKUST	Prototype of Refrigerator with SMA Based Refrigeration	Yip Chun Yin, Namakkal Raghavendran Srinivas, Chan Yik Hang
Merit Prize	PolyU	Long Period Semi Active Latching Smart Control System	Wang Hao
	PolyU	Flexible Truss Out Scaffolding System	Lau Oi Yu, Mong Pak Yu, Leung Tsz Tung
	HKUST	Miura Origami Enabled Stretchable Circuit Boards	Mao Zanxiang, Xin Zian, Li Yongkai, Wang Ruoqin, Li Yang
	CUHK	A Flexible and Energy Efficient Wearable Back-Support Exoskeleton for Asymmetric Lifting Tasks Assistance	Liao Hongpeng, Chan Hugo Hung Tin

Life Sciences

Award	Institution	Project Name	Name of Participant(s)
First Prize	CUHK	Site Selective Antibody Modification and its Application	Yuan Dingdong, Chen Hongfei, Li Biquan
Second Prize	CUHK	Design and Development of a Novel Long Lasting Aptamer Modification Strategy Based on the Bimolecular Combination	Zhang Huarui, Zhang Yihao, Li Haitian
	CUHK	A Novel and Highly Effective T Cell Therapy for Solid Cancers	Chan Kam Kwan, Ji Zeyuan, Li Siu Fan Jane, Chan Lok Yiu
Third Prize	HKBU	Therapeutic Aptamer Targeting Sclerostin Loop3 for Promoting Bone Formation without Increasing Cardiovascular Risk in Osteogenesis Imperfecta Mice from Molecular Understanding to Aptamer Drug Discovery Towards US FDA Rare Pediatric Disease Designation	Tao Xiaohui, Sun Meiheng
	HKU	Photosensitive Antimicrobial Contact Lenses for Bacterial Keratitis	Zhou Liangyu, Chen Ying
	CUHK	Development of mRNA Vaccine Targeting Tumor Immune Microenvironment for Pancreatic Cancer Treatment	Luo Zhiyuan
Merit Prize	CUHK	SMTRI : A Deep Learning Platform to Predict Small Molecules Targeting miRNA-mRNA Interactions	Xiao Huan, Zhang Yihao
	CUHK	A Novel Antibacterial Strategy Targeting Cancer Related Staphylococcus Aureus	Li Jiaqi, Zheng Huangliang
	CUHK	Deliver Cytotoxic Substance by scFv Region of Antibody to Exert Cytotoxicity as Therapeutic Approach of Liver Cancer	Lo Yan Ching, Li Kin Luen, Lee Chun Kit, Cheung Wing Tung, Wong Tsz Wai, Xu Ching Fai
	HKUST	Smart Wound Dressing for Chronic Wounds	Zhang Zhe

Entrepreneurship

Grand Prize	CUHK	Meat the Next Tiger Nut Enzymatic Reaction Technology	Chan Ka Ming, Harkirat Singhdhaliwal, Che Hiu Suet
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Entrepreneurship Proposal

Award	Institution	Project Name	Name of Participant(s)
First Prize	PolyU	Development and Practical Application of Rice Husk-Based Functional Materials	Guo Boyu, Hu Jingxuan, Qian Junbo ,Wang Dingyuan, Li Bowen, Luo Mingyu, Ji Ying
Second Prize	PolyU	Cost-Effective Glassy Carbon Precise Geometry Control and Fabrication	Yang Yi
	PolyU	GIS and Metamodeling for Best MiC Logistics and Crane Layout	Wang Dong, Liu Rongsheng
	HKUST	LingJu NW Leading the Revolution of The Global 2D Material Industry	Kang Hui, Zhong Zhenlin, Zhang Wenbo, Liu Yiyu, Yang Yuqi, Liang Yin, Feng Yuchen
Third Prize	PolyU	SmartChest DX AI Empowered Chest Radiography Diagnosis Software	Song Liming, Huang Yu-Hua
	HKUST	iSPACE	Yang Simin, Lu Jingkun, Xu Weifan, Chen Xingze
	HKU	Single-Cell Big Data and AI Driven Drug Discovery	Yin Danqing, Lin Xinyi, Meng Qiuchen, Ma Kun, Wang Jiakai
	HKUST	Wearable Motion Capture System Based on Flexible Sensor	Li Yang, Wang Ruoqin, Mao Zanxiang
Merit Prize	CityU	A One-stop Cell Therapy Drug Preparation Platform Based On Microfluidic Chips	Jiang Zhongning, Yi Zhangtao, Huang Wei
	CUHK	Nanomedicine for EBV Associated Malignancies	Leung Hei Man
	PolyU	EasyCarbon	Zhi Erjie
	HKU	PawketAI An Interactive AI health Assistant for Your Pet	Ma Shichao, Wang Zhengshunzi, Yeung Ching Yi, Wong Wing Yan

Startup

Award	Institution	Project Name	Name of Participant(s)
First Prize	CUHK	Meat the Next Tiger Nut Enzymatic Reaction Technology	Chan Ka Ming, Harkirat Singhdhaliwal, Che Hiu Suet
Second Prize	HKU	Artificial Intelligence for Dental Prosthesis Design	Chau Chun Wang, Hsung Tai Chiu, Lam Yu Hang, Chau Chun Yin, Dr. Khaing Myat Thu
	HKUST	Artificial Feeder Cell to Enable and Accelerate the R and D and Clinical Translation of Next Generation Immune Cell Therapy	Lau Chi Ming, Chung Jin Teng, Zhorabek Fariza, Wong Yu Ting, Mr.Yu Chung Yan
	HKU	SpatialSense Spatial Intelligence Software	Wong Wai Hin
Third Prize	CityU	High Transparency Flexible Conductive Multifunctional Film and Encapsulation	Wong Wai Ying, Yip Hin Lap, Fan Baobing, Du Gengxin, Ke Lingyi, Zhao Kai Chuang
	HKU SPACE	define CLEAN	Shih Jan Noel
	PolyU	The AI Tool for Knee Osteoarthritis Screening and Self Management	Chan Lok Chun, Li Ho Hin, Yip Hoi Ying, Li Pik Kei, Lau Sing Hin, Leung Yui Him, Keung Sum Yuet, Zhang Yuning, Tang Pui Man, Li Pui Kwan, Dr. Wen Chunyi
	CUHK	Fleming MedLab — Wearable Robots For Stroke Survivors to Walk and Brain Recovery	Ty Pak Sing, Heung Ho Lam
Merit Prize	CityU	Multifunctional Detection System by LuMAT SERS Limited	Shen Junda, Zhang Yunqin, Yang Qing
	PolyU	Automatic Assessment Diagnostic System for Radiation Dermatitis Patients	Ma Zongrui, Li Zhaoxiang, Zhang Jiang, Cai Jing
	CUHK	Femtosecond Projection NanoPrinter Ultrafast Multimaterial 3D Nanofabrication Platform	Datar Charudatta Achyut, Zhong Qiuyuan, Gu Songyun, Han Fei, Fu Xinlei, Prof. Chen Shih Chi
	HKU	EMG Wearable Device	Sun Chuying, Shu Zhentian, Wang Xiaojun, Liang Huahui, Guo Honghao, Qu Zhan

Social Enterprise /Cultural & Creative Services

Award	Institution	Project Name	Name of Participant(s)
First Prize	HKUST	FlashGreen Mall	Chan Chun Kin, Li Yuen Yung Ada, Ting Kai Chung
Second Prize	HKUST	Upcycled Breakfast Bar	So Ka Hei, Yordanov Matey Svetlan
	HKUST	Universpirit Innovation	Lin Hin Wang, Zhang Fan, Wang Pengyu, Du Xiawei, Yim Ying Hing, Prof. Shi Ling
	HKU	WeDerm Health	Li Kin Cheung, Kung Ling Kiu
Third Prize	HKU	SAGA .Starlight	Gu Donyi, Wang Yingqi, Liu Yingchu, Chen Yuzi
	PolyU	Elderly Friendly Housing Design	Dou Kunhua, Zhou Yueyue, Song Xiaoying, Hu Wenting, Xie Lin
	HKUST	Metaprint	Wang Pak Hin, Choy Kwan Ho, Ng Chak Yui, Ng Tsz Ching
	HSU	Daoad	Li Man, Lai Yun Chi, Zhang Yu Ruo, Gu Jing Shu, Zhang Yu Wai
Merit Prize	PolyU	Puzzle Weekly	Lau Hoi Ching, Lau Hoi Kiu
	HKU SPACE	ElderChain	Chen Yaping, Fung Ka Tat, Chan Tsz Chung
	HKUST	Re3 Reusable Takeaway Tableware Rental Service	Tsui Ka Hei, Ma Sze Long