

Information of host professor

Y2022

University : National Central University

No.	College/Faculty	Department/Institute	Professor's name	教授 中文 名字	Project Title	Research Area	Virtual instruction possibility? (Yes/No)	E-mail	Contact No.
NCU 01	College of Science	Department of Chemistry	Fa-Kuen Shieh	謝發坤	Biochemistry, Enzyme Kinetics, Bio-Conjugation, Drug Delivery ,Porous materials	Biochemistry	No	fsheih@ncu.edu.tw	+886-3-4227151 ext. 65948
NCU 02		Department of Mathematics	Feng-Nan Hwang	黃楓南	numerical method for optimization problems with application in data science	Scientific computing and data science	Yes	hwangf@math.ncu.edu.tw	+886-3-4227151 ext. 65110
NCU 03		Department of Physics	Yu-Jung Chen	陳俞融	Energetic process of interstellar ices	Astrophysics/ Astrochemistry	No	asperchen@phy.ncu.edu.tw	+886-3-4227151 ext.11465390
NCU 04	College of Engineering	Department of Chemical & Materials Engineering	Bor Kae Chang	張博凱	Machine Learning for Catalyst Discovery	Energy / Materials	Yes	BKChang@ncu.edu.tw	+886-3-4227151 ext. 34235

Information of host professor

University : National Tsing Hua University, NTHU 國立清華大學

Note : Please choose the host professor from the website link of each department or institute.

College of Science	理學院	http://science.nthu.edu.tw/
Department of Physics	物理系	http://www.phys.nthu.edu.tw/en/
Department of Mathematics	數學系	http://www.math.nthu.edu.tw/main.php
Department of Chemistry	化學系	http://chem-en.web.nthu.edu.tw/bin/home.php
Institute of Statistics	統計學研究所	http://stat.web.nthu.edu.tw/bin/home.php
Institute of Astronomy	天文研究所	http://www.astr.nthu.edu.tw/bin/home.php
College of Engineering	工學院	http://eng-en.web.nthu.edu.tw/bin/home.php
Chemical Engineering	化學工程系	http://www.che.nthu.edu.tw/main.php
Materials Science Engineering	材料科學系	http://www.mse.nthu.edu.tw/main.php
Power Mechanical Engineering	動力機械工程學系	http://www.pme.nthu.edu.tw/main.php
Industrial Engineering and Engineering Management	工業工程與工程管理系	http://www.ie.nthu.edu.tw/bin/home.php?Lang=en
Institute of NanoEngineering and MicroSystems	奈米工程與微系統研究所	http://nems.web.nthu.edu.tw/bin/home.php?Lang=en
Biomedical Engineering	生物醫學工程研究所	http://my.nthu.edu.tw/~bme/index%20ENG.html
College of Electrical Engineering and Computer Science	電機資訊學院	http://eecs-en.web.nthu.edu.tw/bin/home.php
Department of Electrical Engineering	電機工程系	http://web.ee.nthu.edu.tw/bin/home.php?Lang=en
Department of Computer Science	資訊工程系	http://web-en.cs.nthu.edu.tw/bin/home.php
Institute of Electronics Engineering	電子工程研究所	http://www.ene.nthu.edu.tw/e_intro.php
Institute of Communications Engineering	通訊工程研究所	http://com-en.web.nthu.edu.tw/bin/home.php
Institute of Photonics Technologies	光電工程研究所	http://ipt.web.nthu.edu.tw/bin/home.php?Lang=en
Institute of Information Systems and Applications	資訊系統與應用研究所	http://isa.web.nthu.edu.tw/bin/home.php?Lang=en
College of Nuclear Science	原子科學院	http://www.nucl.nthu.edu.tw/bin/home.php
Department of Engineering and System Science	工程與系統科學系	http://www.ess.nthu.edu.tw/bin/home.php?Lang=en
Department of Biomedical Engineering and Environmental Sciences	生醫工程與環境科學系	http://www.bmes.nthu.edu.tw/intro/super_pages.php?ID=Introduction
Institute of Nuclear Engineering and Science	核子科學與工程研究所	http://www.nes.nthu.edu.tw/main.php
College of Life Science	生命科學院	http://college.life.nthu.edu.tw/aboutus/teacher.b.php
Department of Life Science	生命科學系	http://www.life.nthu.edu.tw/members/teacher.b.php?mclass=160
Department of Medical Science	醫學科學系	http://dms-en.web.nthu.edu.tw/files/11-1110-1967.php
Institute of Biotechnology	生物科技研究所	http://bt.life.nthu.edu.tw/members/teacher.b.php?mclass=140
Institute of Molecular Medicine	分子醫學研究所	http://mm.life.nthu.edu.tw/members/teacher.b.php?mclass=120
Institute of Molecular and Cellular Biology	分子與細胞生物研究所	http://mcb.life.nthu.edu.tw/members/teacher.b.php?mclass=110
Institute of Bioinformatics and Structural Biology	生物資訊與結構生物研究所	http://sb.life.nthu.edu.tw/members/teacher.b.php?mclass=130
Institute of Systems Neuroscience	系統神經科學研究所	http://sn.life.nthu.edu.tw/members/teacher.b.php?mclass=150

Host Professor Information

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University : National Yang Ming Chiao Tung University

No.	College/ Faculty	Department/Institute	Professor's name	教授 中文 名字	Project Title	Research Area	Virtual instruction possibility? (Yes/No)	E-mail	Contact No.
NYCU 01	College of Artificial Intelligence	Institute of Computational Intelligence	Jun-Wei Hsieh	謝君偉	Development of an AI Platform for Smart Drone-Intelligent Flight Control	Artificial Intelligence(AI), Deep Learning, Smart Drone, Intelligent Transport Systems(ITS), Reinforcement Learning(RL), Neural Architecture Search(NAS), Vehicle Make and Model Recognition, Kinect- Based Online Handwriting Recognition System, People Counting System, Behavior Analysis, License Plate Detection and Recognition System	Yes	jwhsieh@nycu.edu.tw	+886-3-5712121 Ext. 57913
NYCU 02	College of Biological Science and Technology	Department of Biological Science and Technology	Tai-Ming Ko	柯泰名	Single-cell translational genomics and immunopharmacogenomics	Single-cell genomics, immunogenomics, pharmacogenomics	Yes	taiming23@gmail.com	+886-3-5712121 ext. 59731
NYCU 03			Chiu, Tzai-Wen	曲在雯	TMS effects on the motor recovery following stroke; Biological Research Platform of Smart Contact Lens System for Glaucoma Diagnosis and Treatment	Neuroscience, neurophysiology, histology, behavior studies, electrophysiology	No	twchiu@g2.nctu.edu.tw	+886-3-5712121 ext. 56973
NYCU 04		Institute of Molecular Medicine and Bioengineering	Eric Hwang	黃兆祺	Using an optogenetic platform to study amyotrophic lateral sclerosis (ALS)-associated protein aggregation and drug screening	Neuroscience, cell biology, optogenetics. biotechnology	No	hwangeric@nycu.edu.tw	+886-3-5712121 ext. 56968
NYCU 05		Department of Biological Science and Technology	Ya-Tign Kao	高雅婷	Photomechanism of phototransformable fluorescent proteins	Biophysics, enzymatic reaction, fluorescent protein	No	yatingkao@nycu.edu.tw	+886-3-5712121 ext. 56988

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NYCU 06		Institute of Bioinformatics and Systems Biology	Li-Wei Ko	柯立偉	Brain-computer interface for daily application and clinical diagnosis	Brain Computer Interface, EEG, Neural Computation, Computational Neuroscience	No	lwko@nctu.edu.tw	+886-3-5712121 ext. 56984
NYCU 07	College of Management	Department of Information Management and Finance	Chia-Mu Yu	游家牧	Towards Practical Differentially Private Data Release	Deep Learning, Data Privacy, Information Security	Yes	chiamuyu@nycu.edu.tw	+886-3-5712121 ext. 57048
NYCU 08	College of Science	Institute of Statistics	Sheng-Hsuan Lin	林聖軒	Method Development of causal mediation analysis	Causal inference, mediation analysis, interaction analysis	Yes	shenglin@stat.nctu.edu.tw	+886-3-5712121 ext. 56822 or 56816
NYCU 09		Department of Applied Chemistry	Yuan-Pern Lee	李遠鵬	IR spectra of free radicals important in atmospheric chemistry or astrochemistry	Physical Chemistry	No	yplee@nycu.edu.tw	+886-3-5712121 ext. 31459
NYCU 10			Shu-Pao Wu	吳淑祿	MSNPs drug delivery	Inorganic biochemistry	Yes	spwu@nycu.edu.tw	+886-3-5712121 ext. 56506
NYCU 11			Sung-Fu Hung	洪崧富	Electrocatalytic CO2 reduction using flow system	Inorganic chemistry, electrochemistry	No	sungfuhung@nycu.edu.tw	+886-3-5712121 ext. 31946
NYCU 12			Chia-Chih Chang	張佳智	Functional Polymer for Mechanochemistry and Energy Applications	Polymer, organic chemistry	No	cchang113ac@nycu.edu.tw	+886-3-5712121 ext. 56554
NYCU 13			Hsueh-Ju Liu	劉學儒	Synthesis of multi-metallic and lowcoordinate complexes for small molecule activation and catalysis	Organometallic and inorganic chemistry	No	hjliu@nycu.edu.tw	+886-3-5712121 ext. 56547
NYCU 14			College of Engineering	Department of Civil Engineering	Josh Yang	楊尊華	The application of IoT for disaster mitigation	Edge Computing	No
NYCU 15	Tzu-Kang, Lin	林子剛			Application of Artificial Intelligence for Structural Health Monitoring	Structural Health Monitoring, Artificial Intelligence , Smart Structural Control, Bridge Engineering	Yes	tklin@nctu.edu.tw	+886-3-5712121 ext. 54919

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NYCU 16	College of Engineering	Department of Materials Science & Engineering	E-Wen HUANG	黃爾文	1. Design to enhance the functional materials properties; 2. Using sustainability index to review the advanced metals	Advanced Metals & In-situ Characterizations	Yes	ewhuang@g2.nctu.edu.tw	+886-3-5712121 ext. 55307
NYCU 17			Chao-Yao Yang	楊朝堯	Spintronic effect on antiferromagnetic materials	Spintronics, solid-state physics	Yes	cyyang8611@nycu.edu.tw	+886-975-270-702
NYCU 18	College of Electrical and Computer Engineering	Department of Photonics	Jhieh-Sheng Wu	吳致盛	1. Simulation of nano-optics 2. Quantum sensing with photonics 3. Quantum random walk	Quantum nano-optics, photonics	Yes	jwu@nycu.edu.tw	+886-3-5712121 Ext. 56365
NYCU 19		Institute of Communications Engineering/Department of Electrical and Computer Engineering	Ming-Chun Lee	李明峻	1. Convergence of Caching, Computing, and Communications in Next-Generation Wireless Networks; 2. Design and Analysis of Integrated Radar- Communication Systems; 3. Large-Scale Antenna System Design for Next-Generation Wireless Systems.	Wireless communications	Yes	mingchunlee@nycu.edu.tw	+886-3-5712121 Ext: 54513
NYCU 20	College of Humanities and Social Sciences	International Program in Inter-Asia Cultural Studies	Joyce C.H. Liu	劉紀蕙	Conflict, Justice, Decolonization: Critical Studies of Inter-Asian Societies Migration, Logistics, and Unequal Citizens in the Global Context Visual Studies and the Transitions of Asia in the 21st Century	Critical Documentary, Border Politics, Biopolitics, Unequal Citizenship, Migration, Internal Colonialism, Epistemic Decolonization, Critical Logistics	Yes	joyceliu@nycu.edu.tw	+886-3-5712121 #31611

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NYCU 21	International College of Semiconductor Technology	International College of Semiconductor Technology	Tian-Li Wu	吳添立	Reliability/modelling/AI- assisted design in advanced semiconductor devices (GaN/SiC/Ferroelectric devices)	1) Power GaN and SiC semiconductor devices 2) Sub-5 nm beyond CMOS 3) Reliability evaluation and degradation mechanism analysis 4) AI-assisted device design and reliability evaluation in advance	Yes	tlwu@nycu.edu.tw	+886-3-5712121 #59442
NYCU 22	College of Medicine	Institute of Pharmacology	Shih-Hwa Chiou	邱士華	to be determined	Cell therapy, Cancer research, Nanotechnology	No	shchiou@vghtpe.gov.tw shchiou1130@gmail.com	886-2-28757394
NYCU 23			Tzyh-Chang Hwang	黃自強	to be determined	Cystic fibrosis, Ion channel physiology	No	hwangt@nycu.edu.tw	886-2-28267996
NYCU 24			Yueh-Hsin Ping	兵岳忻	to be determined	Molecular Virology, Nano-Imaging	No	yhping@nycu.edu.tw	886-2-2826-7326
NYCU 25		Institute of Biomedical Informatics	Chun-Ying Wu	吳俊穎	Cancer digital twins; Microbiota in digestive diseases; COVID-19	Health big data; Artificial intelligence; Cancer translational research; Microbiota; COVID-19	Yes	dr.wu.taiwan@gmail.com	886-921388866
NYCU 26		Institute of Environmental and Occupational Health Sciences	Mei-Lien Chen	陳美蓮	Dietary pattern and health risk assessment of exposure to Bisphenol A and Parabens	Endocrine disrupting chemical and Health risk assessment	No	mlchen@nycu.edu.tw	
NYCU 27			Kai-Hsien Chi	紀凱獻	Source Identification and Inhalation Risk of Hazardous Air Pollutants in PM1.0 via Long- range Transport in Eastern Asia	Environmental Sciences and Technology	No	khchi@nycu.edu.tw	
NYCU 28			Hsien-Wen Kuo	郭憲文	Practical implementation and outcome assessment of healthy city program	Health Policy assessment, Health inequality	Yes	hwkuo@ym.edu.tw	
NYCU 29		College of Nursing	Department of Nursing	Heng-Hsin Tung	童恒新	Innovative health care model in older adults	Cardiovascular Geriatric / gerontology	Yes	henghsin@nycu.edu.tw

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NYCU 30	College of Nursing	Institute of Community Health Care	Cheng-Pei Lin	林承霈	Developing community-based advance care planning model for older adults with chronic illness and evaluating its feasibility	Palliative care, oncology nursing, advance care planning, medical decision-making	Yes	cheng-pei.lin@nycu.edu.tw	886-2-28267310
NYCU 31	College of Pharmaceutical Sciences	Department of Pharmacy	Anya Maan-Yuh Lin	林滿玉		CNS Neuropharmacology, Translational research	Yes	myalin@nycu.edu.tw	886-2-28267983
NYCU 32			Jih-Jung Chen	陳日榮		Pharmacognosy, New drug design, Chinese herbal medicine R&D, Functional food R&D, Cosmetics design	Yes	jjungchen@nycu.edu.tw	886-2-28267195
NYCU 33	College of Life Sciences	Institute of Microbiology & Immunology	Shir-Ly HUANG	黃雪莉	Microbial biotechnology	1. Microbial degradation of toxic compounds using biochemical, proteomic and mutagenesis approaches. 2. Microbial ecology/physiology of microbiome and human health/diseases	Yes	sl.huang@nycu.edu.tw	886-2-28267108
NYCU 34	College of Biomedical Science and Engineering	Department of Biomedical Imaging and Radiological Sciences	Jyh-Cheng Chen	陳志成	biomedical imaging instrumentation, image processing & analysis via AI & radiomics	Biomedical Imaging (PET/SPECT/CT/OI)	Yes	jyhcheng2010@gmail.com	886-2-28267282
NYCU 35			Yi-Jang Lee	李易展	Reporter gene imaging for cancer research	Molecular Imaging	No	yjlee2@nycu.edu.tw	886-2-28267189
NYCU 36			Yu-Chieh Jill Kao	高瑀潔	Changes in diffusion metrics of the brain following neurological disease	Animal MRI, Neuroscience and Neurology, Animal Models	Yes	jillkao@nycu.edu.tw	886-2-28267229
NYCU 37		Biomdeical Engineering	Cheng-Yang Liu	劉承揚	The investigation of biomedical sensing and laser surgery by using photonic nanojets	Opto-Mechatronic Systems, Biophotonic system	No	cyliu66@nycu.edu.tw	886-2-28267020