

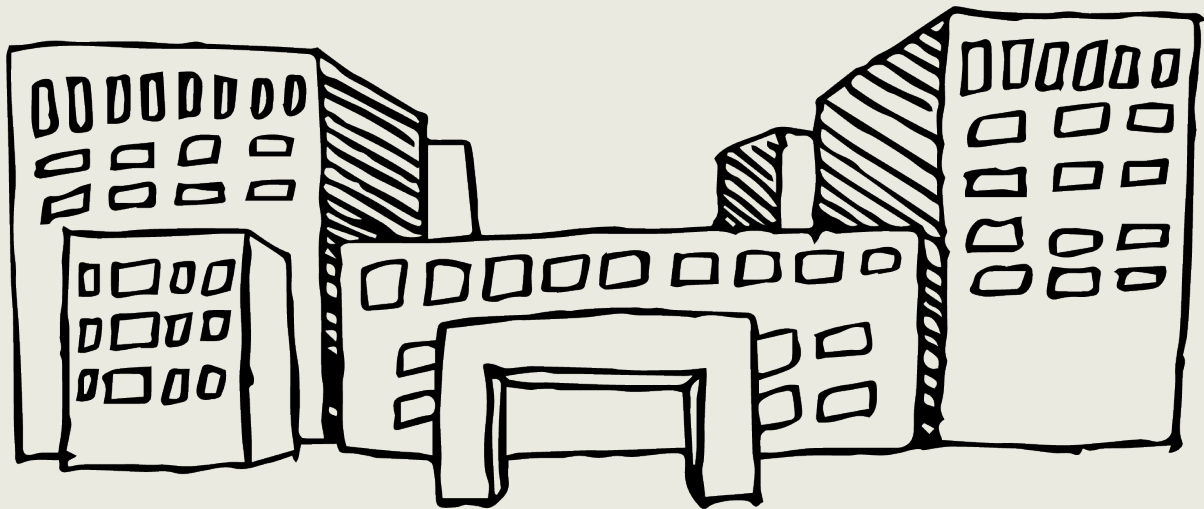
2022 Worldwide Universities Network Virtual Summer School

Act For Sustainability

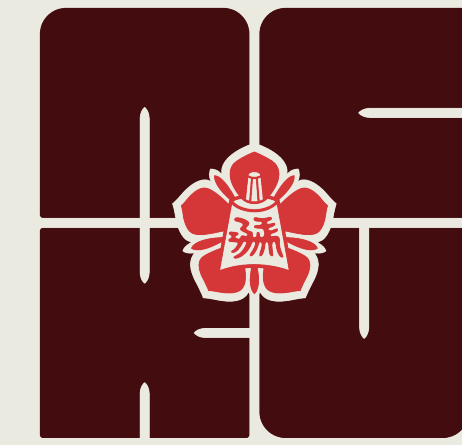


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National Cheng Kung University



National Cheng Kung University (NCKU) is one of Taiwan's top research universities and a leader in promoting industry-academia cooperation. According to the QS World University Rankings 2022, NCKU has ranked the 224th in the world and 41st in Asia. With more than 1,326 faculty members, 21,000 students and 200,000 alumni worldwide, NCKU is best known for its high impact as a higher educator in Taiwan and the world.

NCKU launched the Academy of Innovative Semiconductor and Sustainable Manufacturing in 2021, a quick action by NCKU to answer the urgent call for an increase in R&D talent from the industry and the government. NCKU has made this effort possible with its solid foundation in chemistry, mathematics, physics, optoelectronics, and plasma research. Furthermore, NCKU is also a pioneer of precision machinery advanced materials, naval mechatronics, and even aeronautics and astronautics. Besides, advanced research of software, systems and service make NCKU a leader of electrical engineering and computer science in the country.

NCKU also provides students with ample liberal arts and social sciences learning environment. It ranges from multidisciplinary programs to behavioral research collaborating economic, political, cultural issues. NCKU aims to cultivate students' broader outlook, commitment to social care, and interdisciplinary integration ability.

Furthermore, NCKU values its influences on environment by promoting industry ecosystem Development and sustainable innovation. Cutting-edge research competence also allows NCKU to be a strategic partner to the Government in green energy and sustainability.

Last but not least, NCKU students can enjoy the rich cultural heritage of Tainan and the delicious, interesting food throughout the city. The libraries, public artworks, historical buildings, tree-shaded campus, and the variety of extracurricular activities can also diversify students' splendid campus life.

With its diversity, influence and vision, students in NCKU can exploit its abundant resources and fully explore their interests and creativity in various academic fields, further connecting themselves to the society and the world.

The Worldwide Universities Network



WUN
WORLDWIDE
UNIVERSITIES
NETWORK

The Worldwide Universities Network (WUN) is a leading global higher education and research network of 24 universities across 6 continents. WUN brings together leading comprehensive research universities in collaborative partnership to advance research and education on major global challenges. Capitalizing on the geographical and cultural diversity of members, WUN enriches their shared experience, and brings together distinctive constellations of talent to address problems of real significance. WUN's major area of focus is the broad domain of sustainable development, a domain of both societal importance and significant funding opportunity, and provides a powerful bridge to an emerging imperative in undergraduate and postgraduate education.

At graduate level, a Research Mobility Programme provides opportunities for early-career researchers, including postgraduate and postdoctoral students, to broaden their professional networks and gain specialized experience in an international context. At undergraduate level, WUN promotes initiatives that bring students from multiple partner universities together for shared research experience, including summer schools hosted across the network.

Presidents Forum of Southeast and South Asia and Taiwan Universities

SATU

As the Southeast Asian region is facing critical challenges in economic, societal, and politic structures, there is a need to gather experts and educators to exchange ideas and face shared challenges. The excellence of universities is an important key to enhance a nation's competitiveness.

Therefore, President Chiang Kao of National Cheng Kung University (Taiwan) together with Presidents of prestigious universities of Southeast Asian countries initiated in 2003 the "Presidents' Forum of Southeast Asia and Taiwan Universities" (later renamed to its present title to reflect incorporation of Universities in South Asia), abbreviated as SATU Presidents' Forum, to provide a venue for academics to share their valuable experiences to improve higher education

and international cooperation in the region. Hence, the Secretariat of SATU Presidents' Forum has been established at National Cheng Kung University to coordinate and to promote the related activities.

Taiwan Comprehensive University System, TCUS

In 2011, under the auspices of the Ministry of Education, four major landmark universities in central and southern Taiwan—National Cheng Kung University, National Sun Yat-sen University, National Chung Hsing University and National Chung Cheng University—were integrated into the Taiwan Comprehensive University System (TCUS), based on their existing organizational and administrative structures.

The formation of TCUS was intended to enable its members to make optimal use of their existing educational resources, as well as to balance the differences in the availability of these between central-

southern and northern Taiwan, in the hope of working out a new blueprint for the further development of higher education. TCUS aims to promote academic collaborations with all levels of industry to pave the way for the development of a green technology zone along the west coast of Taiwan, and become a driving force for the development of the hi-tech economy in central-southern Taiwan.

Tainan City

Tainan is the oldest city in Taiwan. With its time honored 300 year history, the city is well woven into the fabric of rich culture and interesting anecdotes.

Details hidden inside the corners of streets, they yield the footprints left behind by ancestors as well as those precious, little stories being passed down generation by generation. Go on a gate trip to see and feel how Tainan once "Prefecture City", has evolved and developed, and how those ancient gates closely interact with its geography, commerce, and human activities. There are also many important heritage sites in Tainan. Due to traditional architectures and the surroundings around

being revived and renovated, local art, industrial activities, and sightseeing are hence enhanced accordingly.

Historic streets and old houses, on the other hand, are life reflections of all different eras, carrying and preserving memories and spaces of ordinary Taiwanese people. Let those heritage sites and historic streets guide you to explore and witness Tainan cement an irreplaceable status in Taiwan history. Find out more details about attractions and transports within Tainan:

<https://www.twtainan.net/en>

Students Group 1



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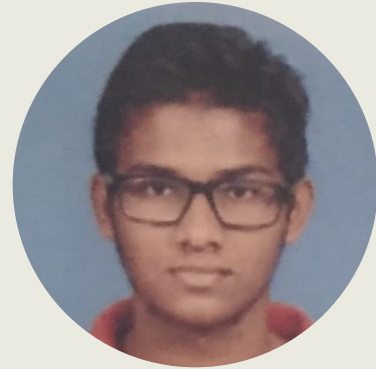
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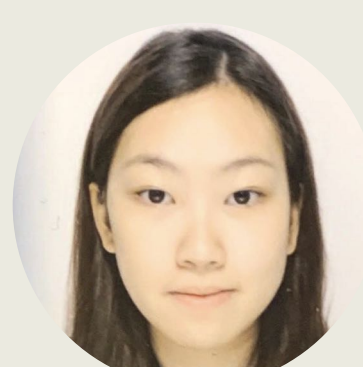


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Students Group 7



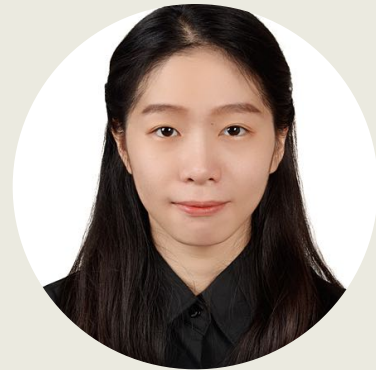
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Lecturers



Hsiao-Wen Wang

Professor in Department of Hydraulic and Ocean Engineering,
Vice President for International Affairs, Director of Disaster
Prevention Research Center
Program Coordinator of the Certificate Program in Sustainable
Development, National Cheng Kung University

PhD in Civil Engineering, National Taiwan University

- Water environment planning and evaluation.
- River restoration, Ecohydraulics.
- Watershed sediment management.
- Wetland conservation.
- Disaster risk governance.

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Lecturers



Tsair-Fuh Lin

Distinguished Professor in the Department of Environmental Engineering, Vice President at Office of Research and Development,
National Cheng Kung University

PhD in Civil Engineering, University of California (Berkeley)

- Identification, treatment, and modelling of cyanobacteria and metabolites in drinking water systems.
- Adsorption and novel treatment techniques for contaminated ground

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Lecturers



Rodney H. Matsuoka

Assistant Research Professor, National Cheng Kung University

PhD in Landscape Architecture, University of Illinois

- Sustainable cities and communities concerning how we can design better physical environments to maximize urban inhabitants' physical and psychological health, and overall levels of satisfaction and well-being.

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Lecturers



Chih-Hua Chang

Associate Professor in the Department of Environmental Engineering, National Cheng Kung University

PhD in Environmental Engineering, National Cheng Kung University

- Monitoring the dynamic changes of inland water quality with multi-resolution spatiotemporal data. Integrating the evolutionary algorithms.
- Using multi-temporal imagery and digital change detection approaches to identify and assess the environmental changes in a specific area. Application of watershed models, e.g., SWMM, BASINS and SWAT, for NPS pollution load estimation and BMP decisions.

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Lecturers



Pi-Cheng Chen

Assistant Professor in the Department of Environmental Engineering, National Cheng Kung University

PhD in Environmental Engineering, National Taiwan University

- Material flow analysis and impact assessment for resource efficiency and cleaner production.

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Lecturers



John F. Harrison

Assistant Research Professor, Cross College Elite Program,
National Cheng Kung University.

PhD in Environmental Engineering, National Cheng Kung
University

- Sustainable mountain development, remote sensing,
landslide susceptibility modeling, water quality
management.

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Lecturers



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Consultant, Taiwan International Institute for Water Education

MA in Intercultural Competencies, Danube University

- Sustainability, Wellbeing & Regenerative Development

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Lecturers



Glenn Hurst

Associate Professor, Senior Lecturer at Department of Chemistry,
Green Chemistry Centre of Excellence, University of York

PhD in Chemical Engineering, Newcastle University

- Chemistry education, specializing in adopting approaches within all levels of green and sustainable chemistry education. He also focuses on using social media for technology-enhanced learning and developing new mobile applications for game-based learning.

glenn.hurst@york.ac.uk

Lecturers



Piergiuseppe Parisi

Lecturer at York Law School, Centre for Applied Human Rights,
University of York

PhD in International Studies, University of Trento

- The impact and effectiveness of Human Rights Council-mandated human rights inquiries in Israel and Palestine. International law of the sea and international criminal law.

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Lecturers



Helen Elsey

Senior Lecturer in Global Health (April 2019 onwards),
University of York

PhD in Community Health in Urban Areas, University of
Southampton

- Testing novel survey methods to improve the representation of the urban poor and understandings of urban poverty; systems research to strengthen the role of city governments to address health inequities and developing interventions to improve health and reduce injuries in urban slums.

helen.elsey@york.ac.uk

Course schedule

Time Interval (GMT+8)	MON Aug. 8	TUE Aug. 9	WED Aug. 10	THUR Aug. 11	FRI Aug. 12	SAT Aug. 13	SUN Aug. 14	MON Aug. 15	TUE Aug. 16	WED Aug. 17	THUR Aug. 17
14:10-15:00	Open Ceremony <small>Prof. Hsiao-Wen Wang, Dr. John Harrison</small>			Workshop: Water Education <small>Ms. Gabriele Seewald</small>		Exploring Tainan Video + Live <small>(optional)</small>	Free	Workshop: Presentation Skills <small>Dr. Rodney Matsuoka</small>	Workshop: Stakeholder Analysis and Storytelling <small>Dr. John Harrison</small>	Presentation Prep <small>(TAs Available)</small>	Farewell Ceremony <small>Pro. Hsiao-Wen Wang, Dr. John Harrison</small>
15:10-16:00	Invited Guests	Clean Water and Sanitation <small>Prof. Chih-Hua Chang</small>	Conflict of Greens <small>Prof. Hsiao-Wen Wang</small>		Cyanobacteria and Drinking Water <small>Prof. Tsair-Fuh Lin</small>						Invited Guests
16:10-17:00	Intro of NCKU									Break	
17:10-18:00		Break						Break			
18:10-19:00	Break	Systems Thinking and Global Education <small>Dr. Glenn Hurst (York)</small>	Human Rights and SDGs <small>Dr. Pierguiseppe Parisi (York)</small>	Inequities in Urban Areas <small>Dr. Helen Elsey (York)</small>	Sustainable Cities <small>Dr. Rodney Matsuoka</small>	Exploring Tainan Video + Live <small>(optional)</small>		Workshop: Limits to Growth/ Tragedy of the Commons <small>Dr. John Harrison</small>	Industry, Innovation and Infrastructure <small>Assi. Prof. Pi-Cheng Chen</small>	Presentations <small>Pro. Hsiao Wen Wang, Dr. John Harrison, Invited Guests</small>	
19:10-20:00	Course Introduction <small>Dr. John Harrison, TAs</small>										
20:10-21:00		Chinese Class <small>(optional)</small>	Chinese Class <small>(optional)</small>	Chinese Class <small>(optional)</small>	Chinese Class <small>(optional)</small>						

Noted: 1. The above courses/schedules are subject to change.
2. The courses start in GMT+8, please notice the corresponding time in your country/ region.

2022 Worldwide Universities
Network Virtual Summer School

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COURSE SCHEDULE

Opening Ceremony

14:10-16:00

(GMT+8)

Monday, August 8th, 2022

13:45-14:00	Online Registration
14:10-14:25	Welcome talk
14:25-14:35	Lecturers and TAs' introduction
14:35-14:45	Course Overview
14:45-14:55	Group Pictures
14:55-15:05	WebEx introduction
15:05-15:15	Ice Breaking Game
15:15-15:25	Farewell

Closing Ceremony

14:10-16:00

(GMT+8)

Wednesday, August 18th, 2022

Online Registration	13:45-14:10
Greetings & Welcome	14:10-14:20
Students Reflections	14:20-14:50
Award Ceremony	14:50-15:20
Closing Remarks	15:20-15:30
Group Pictures	15:30-15:35
Farewell	15:35-16:00

Program Assistants



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WebEx Links

Aug.8

Aug.9

Aug.10

Aug.11

Aug.12

Aug.15

Aug.16

Aug.17

Aug.18