

Si-Yu Yu (尤思喻)

Research Center for Environmental Changes (RCEC), Academia Sinica

No. 128, Sec. 2, Academia Rd., Nankang, Taipei 11529, Taiwan ROC

Office Tel: +886-2-2787-5890

Email: siyuyu@gate.sinica.edu.tw

Last update: 2025/10/14

EDUCATION

2019/09 – 2024/06 Ph.D. Department of Architecture, National Cheng Kung University, Taiwan

2015/09 – 2016/09 M.S. School of Architecture, The University of Kent, UK

2004/09 – 2006/06 M.S. Department of Atmospheric Sciences, National Taiwan University, Taiwan

2000/09 – 2004/06 B.A. Department of Atmospheric Sciences, National Taiwan University, Taiwan

EMPLOYMENT

2024/08 - present Postdoctoral Research Fellow RCEC, Academia Sinica, Taiwan

2017/01 - 2019/08 Science Officer Center for Sustainability Science, Academia Sinica, Taiwan

2011/08 - 2015/08 Program Manager Center for Sustainability Science, Academia Sinica, Taiwan

2007/01 - 2011/03 Environmental Monitoring Engineer Department of Environmental Monitoring and Information, Environmental Protection Administration, Taiwan

HONORS & AWARDS

2024 2023 Architecture Award of Excellent Research Paper in Engineering Field, *J. of Architecture*, Architectural Institute of Taiwan

2022 Obtained National Science and Technology Council (NSTC) Overseas Project for Post Graduate Research grant to Institute of Geography, Heidelberg University, Germany

2022 The Phi Tau Phi Scholastic Honor Society of Republic of China

2019 Obtained National Science and Technology Council (NSTC) Graduate Research Fellowship grant

RESEARCH INTEREST

My research interests and topics related to "Thermal Comfort and Health Impact", "Urban Heat Island", "Urban Climate Map", "Heat Mitigation for Compact Cities", and outdoor/ indoor activities and the thermal environment, including assessing the urban built environment during daily walking/exercise/work, and analyzing health impact, thermal comfort and behavior patterns of residents/ pedestrians/tourists/runners, etc.

RESEARCH HIGHLIGHTS

1. Thermal comfort and health impact

Assessing the urban built environment during daily routine/ special sport events, and analyzing health impact, thermal comfort and behavior patterns.

2. Heat mitigation and the thermal interactions among the built environment

Collecting and integrating important scientific research developments related to urban heat islands, urban outdoor thermal comfort, and urban high temperature adjustment strategies.

REPRESENTATIVE PUBLICATIONS

- 1、**Yu, S.-Y.***, Lin, T.-P., & Matzarakis, A. Heat Impact Assessment and Heat Prevention Suggestions for Thermal Comfort at Large-Area and Long-Duration Outdoor Sport Events in Taiwan. *Atmosphere*, 16(7), 805, 2025
- 2、**Yu, S.-Y.**, and Lin, T.-P.*, “Outdoor Thermal Comfort and the Urban Mitigation Regarding Taiwan Net-Zero Emission, Living Quality, and Sustainability Promotion”. *JOURNAL OF ARCHITECTURE*, No.125, Special Issue on Low Carbon Building, pp. 103~113, 2023
- 3、Lin, T.-P., **Yu, S.-Y.**, Wang, L.-C., “Taiwan Climate Change Projection Information and Adaptation Knowledge Platform (TCCIP) *Climate Change in Taiwan: Scientific Report*” Chapter 4.7 Urban Heat Island in the 4th version, 2023
- 4、**Yu, S.-Y.**, Matzarakis, A., and Lin, T.-P.*, “A Study Regarding the Thermal Environment and Thermal Comfort during the 2021 National Intercollegiate Athletic Games and Related Activities in Taiwan”, *Environ. Sci.Proc.*,8,32., 2021
- 5、**Yu, S.-Y.**, Matzarakis, A., and Lin, T.-P.*, “A Study of the Thermal Environment and Air Quality in Hot–Humid Regions during Running Events in Southern Taiwan”, *Atmosphere*, 2020, 11, 1101; doi:10.3390, was selected as the "Editor's Choice" paper., 2020
- 6、**Yu, S.-Y.**, Lin, T.-P., Christen, A., and Matzarakis, A., Report on “Symposium on Challenges in Applied Human Biometeorology” MAR 2-3, 2020 in Freiburg, Germany, Special Report, *Urban Climate News*, Issue NO. 75, 2020