

Chenguang Wang

chenguang.wang@stonybrook.edu
<https://c-steve-wang.github.io/>

EDUCATION	Ph.D. Civil Engineering , Stony Brook University Jan 2023–Present M.S. Computer Science , Stevens Institute of Technology Sep 2021–Jan 2023 B.S. Computer Science , Xi'an Jiaotong University Sep 2016–Jun 2020
EXPERIENCE	Doctoral Student , Stony Brook University, Department of Civil Engineering Jan 2023 – Present Supervised by Prof. Susu Xu on Disaster Response <ul style="list-style-type: none">Investigate the application of advanced Large Language Models in disaster response, specifically focusing on the integration of crowd-sensing data to augment real-time situational awareness.Develop and implement sophisticated AI technologies to enhance disaster management strategies, focusing on improving response efficiency and risk assessment in various disaster scenarios. Research Assistant , Analytics and Information Security Lab March – Dec 2022 Supervised by Prof. Xiaojiang Du on IoT Security <ul style="list-style-type: none">Construct an autonomous drone system for the surveillance of smart home devices to detect unauthorized state alterations signaling potential security breaches.Implement advanced detection algorithms on drones for real-time monitoring of home IoT devices, focusing on identifying irregular activities in their operational states. Research Assistant , MoE Key Lab for Intelligent Networks & Network Security Feb 2020 – Jun 2021 Supervised by Prof. Zhongmin Cai on Cyber-Physical System <ul style="list-style-type: none">Implemented YOLO for accurate gaze tracking on screens, using smart glasses data to identify user viewing points in video simulations.Developed methods to precisely determine user screen interactions through smart glasses data, leading to insights for an academic paper.
AWARDS	ECE Research Scholarship Award , Analytics and Information Security Lab 2022 Provost Doctoral Fellowship , Stevens Institute of Technology 2022
COMPETENCES	Languages Chinese (<i>native</i>), English (<i>proficient</i>) Techniques Python, Matlab, C/C++, Linux, git, HTML/CSS/Javascript, L ^A T _E X, PyTorch, QGIS
PUBLICATIONS	[1] Wang, C. , Liu, Y., Zhang, X., Li, X., Paramygin, V., Subgranon, A., Sheng, P., Zhao, X., Xu, S. "Causality-informed Rapid Post-hurricane Building Damage Detection in Large Scale from In-SAR Imagery." In <i>Proceedings of the 8th ACM SIGSPATIAL International Workshop on Security Response using GIS 2023</i> , pp. 7-12, 2023. https://doi.org/10.1145/3615884.3629422 [2] Alami, M., Gunay, S., Mosalam, K., Vargas, L., Hassan, W., Merino-Peña, Y., Burton, H., Alhawamdeh, B., Lahna, T., Xu, S., Marinkovic, M., Archbold, J., Iturburu, L., Martin, A., Bektas, N., Ceferino, L., Duran, B., Nobahar, M., Romão, X., Wang, C. , Zhou, G., Zaoui, A., Kijewski-Correa, T. "StEER: Oukaïmedene Morocco Preliminary Virtual Reconnaissance Report (PVRR)", in <i>StEER 2023 Oukaïmedene Morocco Earthquake</i> , DesignSafe-CI, 2023. https://doi.org/10.17603/ds2-gw0j-6757