

# Chenguang Wang

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

EDUCATION	<b>Ph.D. Civil Engineering</b> , Stony Brook University	Jan 2023–Present
	<b>M.S. Computer Science</b> , Stevens Institute of Technology	Sep 2021–Jan 2023
	<b>B.S. Computer Science</b> , Xi'an Jiaotong University	Sep 2016–Jun 2020
EXPERIENCE	<b>Doctoral Student</b> , Stony Brook University, Department of Civil Engineering	Jan 2023 – Present
	Supervised by Prof. Susu Xu on Disaster Response	
	<ul style="list-style-type: none"><li>Investigate and implement advanced Large Language Models and AI technologies in disaster response, focusing on integrating crowd-sensing data to enhance real-time situational awareness, response efficiency, and risk assessment.</li></ul>	
	<b>Research Assistant</b> , Analytics and Information Security Lab	March – Dec 2022
	Supervised by Prof. Xiaojiang Du on IoT Security	
	<ul style="list-style-type: none"><li>Design an autonomous drone system with advanced algorithms for real-time monitoring of smart home IoT devices, focusing on detecting unauthorized state changes and irregular activities from side-channel signals.</li></ul>	
	<b>Research Assistant</b> , MoE Key Lab for Intelligent Networks & Network Security	Feb 2020 – Jun 2021
	Supervised by Prof. Zhongmin Cai on Cyber-Physical System	
AWARDS	<ul style="list-style-type: none"><li>Implemented YOLO for gaze tracking on screens via smart glasses data, thereby enabling precise identification of user viewing points and interactions in video simulations for academic insights.</li></ul>	
	<b>ECE Research Scholarship Award</b> , Analytics and Information Security Lab	2022
	<b>Provost Doctoral Fellowship</b> , Stevens Institute of Technology	2022
COMPETENCES	<b>Languages</b> Chinese ( <i>native</i> ), English ( <i>proficient</i> )	
	<b>Techniques</b> Python, Matlab, C/C++, Linux, git, HTML/CSS/Javascript, L <sup>A</sup> T <sub>E</sub> X, PyTorch, QGIS	
PUBLICATIONS	<ul style="list-style-type: none"><li>[1] <b>Wang, C.</b>, 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. <a href="https://doi.org/10.1145/3615884.3629422">https://doi.org/10.1145/3615884.3629422</a></li><li>[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., <b>Wang, C.</b>, Zhou, G., Zaoui, A., Kijewski-Correa, T. "StEER: Oukaïmedene Morocco Preliminary Virtual Reconnaissance Report (PVRP)", in <i>StEER 2023 Oukaïmedene Morocco Earthquake</i>, DesignSafe-CI, 2023. <a href="https://doi.org/10.17603/ds2-gw0j-6757">https://doi.org/10.17603/ds2-gw0j-6757</a></li><li>[3] <b>Wang, C.</b>, Liu, Y., Zhang, X., Li, X., Paramygin, V., Sheng, P., Zhao, X., Xu, S. "Scalable and Rapid Building Damage Detection after Hurricane Ian using Causal Bayesian Networks and InSAR Imagery." In <i>International Journal of Disaster Risk Reduction</i>, 104371, 2024. <a href="https://doi.org/10.1016/j.ijdr.2024.104371">https://doi.org/10.1016/j.ijdr.2024.104371</a></li><li>[4] <b>Wang, C.</b>, Engler, D., Li, X., Hou, J., Wald, D.J., Jaiswal, K., Xu, S. "Near-real-time Earthquake-induced Fatality Estimation using Crowdsourced Data and Large-Language Models." In <i>International Journal of Disaster Risk Reduction</i>, 111, 104680, 2024. <a href="https://doi.org/10.1016/j.ijdr.2024.104680">https://doi.org/10.1016/j.ijdr.2024.104680</a></li><li>[5] Garcia, S., Jana, A., Erazo, K., <b>Wang, C.</b>, Xu, S., Romão, X., Kyprioti, A.K.P., Petreski, B., Bektas, N., Lahna, T., Diekmann, A., Dang, H., Arora, P., Mosalam, K., Wolohan, K. "StEER: 2024 Hualien City Earthquake Annotated Media Repository." <i>Designsafe-CI</i>, 2024. <a href="https://doi.org/10.17603/DS2-4XV5-QC41">https://doi.org/10.17603/DS2-4XV5-QC41</a></li></ul>	