# Chenguang Wang

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https://c-steve-wang.github.io/

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**EDUCATION**

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| **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
- 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 Intern**, Analytics and Information Secuity Lab — Feb – Dec 2022
Supervised by Prof. Xiaojiang Du on IoT Security
- 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
- 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**

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| **ECE Research Scholarship Award**, Analytics and Information Secuity Lab | 2022 |
| **Provost Doctoral Fellowship**, Stevens Institute of Technology | 2022 |

**COMPETENCES**

**Languages** Chinese (*native*), English (*proficient*)

**Techniques** Python, Matlab, C/C++, Linux, git, HTML/CSS/Javacript, LaTeX, 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 InSAR Imagery." In *Proceedings of the 8th ACM SIGSPATIAL International Workshop on Security Response using GIS 2023*, 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 *StEER 2023 Oukaïmedene Morocco Earthquake*, DesignSafe-CI, 2023. https://doi.org/10.17603/ds2-gw0j-6757