

# Wei Cheng Wang

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Ghent, Belgium

<https://linkedin.com/in/wang-wc>

[Google Scholar](#)

[Personal Website](#)

Doctoral Researcher specializing in developing deep learning frameworks for complex, real-world audio and/or visual data. Proven ability to design robust mechanisms for real-world constraints (e.g., privacy, data scarcity), now seeking a role to build and transfer these solutions to new domains.

## EDUCATION

### Ph.D.

Ghent University, Belgium

- Computer Science Engineering 2019-pres.
- All requirements completed; public defense scheduled for Nov. 14, 2025.

### Master of Science

National Cheng Kung University (NCKU), Taiwan

- Computer and Communication Engineering. 2014-2016
- Published in international conferences and journals.

### Bachelor of Science

National Cheng Kung University (NCKU), Taiwan

- Electrical Engineering. 2010-2014

## EXPERIENCE

### Doctoral Researcher

Ghent University, Belgium

- Funded by Flanders AI; conducted research on real-world smart surveillance deployment and privacy-preserving learning. 2019-2025
- Developed privacy-preserving deep learning frameworks for acoustic surveillance applications using real-world datasets from Asasense industry partner.
- Delivered results via poster presentations at Flanders AI events and IDLab Day, engaging cross-institutional stakeholders.
- Published as first author in top journals, contributing protocols adopted by industry partners for model evaluation.
- Co-advised master's thesis on visual surveillance data anonymization, providing guidance on problem formulation, experimental design, and model implementation.

### Teaching Assistant

Ghent University, Belgium

- Mentored students through text/vision-based ML projects, including Airbnb fraud detection and gesture recognition, integrating industrial workshops with Sony Depthsensing Solutions and guiding full-stack model delivery using Python (Scikit-learn, OpenCV). 2021-2023

### Research Assistant

Academia Sinica, Taiwan

- Delivered an oral presentation as a first-author at ICIP'18. 2018-2019

### Research Assistant

NCKU, Taiwan

- Contributed to multiple research projects, resulting in publications in top-tier venues like IEEE Transactions on Image Processing. 2017-2018

## SKILLS

Python, PyTorch, TensorFlow, C++, Scikit-learn, OpenCV, NumPy, Pandas.

Programming

Self-Supervised Learning, Generative Models, Privacy-Preserving, Multimodal Data, Data-Centric AI, Model Evaluation & Benchmarking.

Research

Git, Weights & Biases, Tensorboard

Dev Tools

## AWARDS

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<b>Best &amp; Excellent Master's Thesis Award</b>	2016
<ul style="list-style-type: none"><li>• <i>The Chinese Image Processing and Pattern Society</i></li><li>• <i>The Chinese Institute of Electrical Engineering</i></li></ul>	
<b>Honourary Member</b>	2016
<ul style="list-style-type: none"><li>• <i>The Phi Tau Phi Scholastic Honour Society</i></li></ul>	
<b>First Place (MOSTGP) &amp; Second Place (IC1)</b>	2015
<ul style="list-style-type: none"><li>• <i>International ICT Innovative Services (InnoServe) Awards</i></li></ul>	
<b>Merit Award (R&amp;D)</b>	2015
<ul style="list-style-type: none"><li>• <i>Asia Pacific ICT Alliance (APICTA) Awards</i></li></ul>	

## SELECTED PUBLICATIONS

### Journal Articles

[Embedding-based pair generation for contrastive representation learning in audio-visual surveillance data](#)

*Frontiers in Robotics and AI*, 2025. (First author)

[Source-free model transferability assessment for smart surveillance via randomly initialized networks](#)

*Sensors*, 2025. (First author)

[An opt-in framework for privacy protection in audio-based applications](#)

*IEEE Pervasive Computing*, 2022. (First author)

[Driver monitoring using sparse representation with part-based temporal face descriptors](#)

*IEEE TITS*, 2020. (Second author)

[USEAQ: Ultra-fast superpixel extraction via adaptive sampling from quantized regions](#)

*IEEE TIP*, 2018. (Second author)

[Spatiotemporal coherence-based annotation placement for surveillance videos](#)

*IEEE TCSVT*, 2016. (First author)

### Conference Proceedings and Workshops

[Clustering trajectories in heterogeneous representations for video event detection](#)

*IEEE International Conference on Image Processing (ICIP)*, 2018. (First author)

For a complete list of publications, see: [Google Scholar](#)

## Soft Skills

### Leadership

**Co-President**, *Taiwanese Student Association of Ghent University (2020-2022)*.

*Led community engagement and support initiatives for over 100 members, establishing a city-wide mentor-mentee program from scratch during the pandemic.*

*Served as the primary liaison with the Taipei Representative Office in Belgium, honing cross-cultural coordination and communication skills*

### Innovation & Commercialization

**Team Leader; Presenter**

*Led a team to transform theoretical algorithms into a working prototype, securing First Place (Innovation Services Award) and Merit (Top 3, APICTA) at international startup competitions.*

*Pitched prototype and business model to non-technical judges, successfully translating technical concepts into commercial value.*

*Prototype transferred to EverSTek, demonstrating direct industrial impact.*

### Academic Presentations

**Presenter; First Author**

*Presented research results in international conferences (ICIP'18, ICMVA'17, ISCAS'15, SNPD'15) and cross-institutional events.*