

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

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| Ph.D. | <i>Ghent University, Belgium</i> |
| <ul style="list-style-type: none">Computer Science EngineeringAll requirements completed; public defense scheduled for Nov. 14, 2025. | 2019-pres. |
| Master of Science | <i>National Cheng Kung University (NCKU), Taiwan</i> |
| <ul style="list-style-type: none">Computer and Communication Engineering.Published in international conferences and journals. | 2014-2016 |
| Bachelor of Science | <i>National Cheng Kung University (NCKU), Taiwan</i> |
| <ul style="list-style-type: none">Electrical Engineering. | 2010-2014 |

EXPERIENCE

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| Doctoral Researcher | <i>Ghent University, Belgium</i> |
| <ul style="list-style-type: none">Funded by Flanders AI; conducted research on real-world smart surveillance deployment and privacy-preserving learning.Deployed contemporary deep learning models (e.g., generative-based) on real-world data collected by industry partner Asasense.Developed opt-in privacy protection schemes for acoustic surveillance to fulfill GDPR while remaining compatible with off-the-shelf models.Designed self-supervised learning framework for general-purpose representations; leveraged the recurrent nature of surveillance data to address false negatives and information bottleneck.Developed transfer learning model assessment protocols under real-world constraints: lack of labels and source data.Co-advised master's thesis on visual surveillance data anonymization, providing guidance on problem formulation, experimental design, and model implementation. | 2019-2025 |
| Teaching Assistant | <i>Ghent University, Belgium</i> |
| <ul style="list-style-type: none">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 | <i>Academia Sinica, Taiwan</i> |
| <ul style="list-style-type: none">Delivered an oral presentation as a first-author at ICIP'18. | 2018-2019 |
| Research Assistant | <i>NCKU, Taiwan</i> |
| <ul style="list-style-type: none">Contributed to multiple research projects, resulting in publications in top-tier venues like IEEE Transactions on Image Processing. | 2017-2018 |

SKILLS

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|---|-------------|
| 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

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

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.