Wei Cheng Wang

tienjiwang@gmail.com   +32 497 13 94 61   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 internation 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
- *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.*

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

Best & Excellent Master's Thesis Award   2016
- *The Chinese Image Processing and Pattern Society*
- *The Chinese Institute of Electrical Engineering*

Honourary Member   2016
- *The Phi Tau Phi Scholastic Honour Society*

First Place (MOSTGP) & Second Place (IC1)   2015
- *International ICT Innovative Services (InnoServe) Awards*

Merit Award (R&D)   2015
- *Asia Pacific ICT Alliance (APICTA) Awards*

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.