

YU WANG

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SUMMARY

AI and data analytics professional with over eight years of industry experience spanning telecommunications, enterprise digital transformation, and AI-powered workflow automation across China, France, and the UK. Passionate about applying AI and data-driven technologies to solve complex operational and infrastructure challenges at scale. Experienced in delivering scalable solutions across large-scale analytics, responsible AI, and digital infrastructure within international and cross-functional environments. During PhD research, published 3 journal papers and 6 conference papers on responsible AI, geospatial analytics, and digital infrastructure research.

EXPERIENCE

University of Glasgow Feb. 2025 – Present
Geospatial AI Research Scientist United Kingdom

- Led the development of LLM/RAG-powered legal document review workflows, reducing manual effort in initial contract assessment by approximately 80% and improving workflow consistency across consultancy services.
- Translated operational requirements into deployable AI-enabled workflow solutions in collaboration with legal, IT, and research stakeholders, supporting the digitalisation of consultancy services.
- Advanced responsible AI research initiatives by investigating AI bias, data quality challenges, and the environmental implications of digital infrastructure expansion.

University of Glasgow Jan. 2022 – Feb. 2026
PhD Researcher, Geospatial Data Science United Kingdom

- Developed a novel framework for 3D urban modelling using cellular mobile signals, demonstrating the potential of existing digital infrastructure and reducing reliance on costly traditional mapping approaches.
- Designed and deployed a mobile sensing app enabling real-world sensing experiments and large-scale geospatial analysis across Greater London.
- Identified data quality and coverage issues affecting AI system reliability through collected large-scale analysis of historical street-view imagery datasets containing over 34k images and 1M+ metadata records.
- Proposed a benchmarking framework for human activity recognition using ultra-wideband sensing data, enabling systematic evaluation across 11 AI models for fine-grained behavioural analysis.

DSO–Alan Turing Institute Apr. 2024 – Oct. 2024
Research Assistant United Kingdom

- Supported large-scale geospatial analysis applications by developing AI and computer vision workflows capable of extracting geographic information from street-level imagery.
- Improved dataset quality and geographic coverage for AI model evaluation by curating and validating a global dataset of over 10k street-view images.

Bouygues Telecom Aug. 2017 – Jan. 2021
IP Network Performance Engineer France

- Led nationwide network capacity planning initiatives in France by developing traffic forecasting models to support long-term infrastructure expansion and optimisation decisions.
- Identified network optimisation opportunities through large-scale performance analysis, improving service stability and operational efficiency across national infrastructure projects.
- Reduced manual reporting effort and accelerated operational decision-making by leading the implementation of automated KPI analytics and reporting workflows across technical teams.

- Delivered actionable operational insights for management and engineering stakeholders through QoE/QoS performance analysis and visualisation across mobile, FTTH, and ADSL infrastructure.

Davidson Consulting
Research Engineer

Nov. 2014 – Aug. 2017
France

- Improved operational decision-making and service quality by developing network performance monitoring and usage analytics frameworks for infrastructure optimisation.
- Coordinated end-to-end network upgrade projects across multiple stakeholders, including requirement analysis, deployment planning, performance validation, and post-implementation reporting.

Bouygues Telecom
Optical & Microwave Engineer Intern

Apr. 2014 – Oct. 2014
France

- Built a simulation-based decision tool for evaluating network upgrade strategies, supporting capacity optimisation and digital infrastructure modernisation in large-scale transmission systems.

EDUCATION

University of Glasgow

Glasgow, United Kingdom

PhD in Geospatial Data Science

2022 – 2026

ESIEE-Paris

Paris, France

Diplôme d'Ingénieur, equivalent to MSc in Telecommunications Engineering

2012 – 2014

Harbin Institute of Technology

Harbin, China

BEng in Telecommunications Engineering

2007 – 2011

SKILLS

- **AI & Data Intelligence:** Enterprise AI, LLM, RAG, generative AI, GeoAI, business intelligence, data visualisation
- **Engineering & Technology Stack:** Python, MATLAB, Kotlin, VBA, TensorFlow, PyTorch, Tableau, SAP Business Intelligence, network capacity planning
- **Digital Transformation & Strategy:** Digital transformation advisory, applied research translation, AI strategy & implementation, telecom and digital infrastructure
- **Professional Skills:** Cross-functional collaboration, stakeholder communication, technical problem solving

JOURNAL AND CONFERENCE PUBLICATIONS

- Wang, Y., & Basiri, A. (2026). How Environmentally Sustainable Are Data Centres? A Spatial Assessment Framework. (preprint)
- Wang, Y., & Basiri, A. (2026). From Static to Dynamic: Evaluating the Impact of Temporal Bias in Historical Street View Images for Cross-View Geolocalization. *Transactions in GIS*, no. 5: e70354.
- Wang, Y., & Basiri, A. (2026). Uneven representation in street view imagery and its implications for GeoAI. In *AGILE 2026 Workshop on Uncertain Geodata: Bias, Missingness & GeoAI*, Tartu, Estonia. (Oral Presentation)
- Wang, Y., Shingleton, J., Bıçakçı, Y. S., Basiri, A., & Ackland, J. (2026). The Invisible City: Not All Streets Are Seen Equally. In *Proceedings of the 1st International Conference on Geospatial Artificial Intelligence (GeoAI 2026)*, Ghent, Belgium. (Oral Presentation)

- Wang, Y., Basiri, A., Gerrits, P., Solomon, G., Woelk, S., & Fidel Pereira, M. (2026). Why do pedestrians get lost? A case study of personal, situational, and environmental factors in Greater London. *Journal of Location Based Services*, 1–26.
- Wang, Y., & Basiri, A. (2025). Bit to brick: from cellular mobile signals to 3D city map creation. *Big Earth Data*, 1–25.
- Wang, Y., & Basiri, A. (2024). Advancing human activity recognition using ultra-wideband channel impulse response snapshots. In *Proceedings of the 2024 International Conference on Activity and Behavior Computing (ABC)* (pp. 1–10). IEEE.
- Shingleton, J., Bıçakçı, Y. S., Wang, Y., & Basiri, A. (2026). Emergent spatio-semantic structure in large language model embedding spaces. In *Proceedings of the 1st International Conference on Geospatial Artificial Intelligence (GeoAI 2026)*, Ghent, Belgium. (Oral Presentation)
- Bıçakçı, Y. S., Shingleton, J., Wang, Y., & Basiri, A. (2026). Mapping the semantics of the street: A VLM-driven geospatial analysis in Fatih, Istanbul. In *Proceedings of the 1st International Conference on Geospatial Artificial Intelligence (GeoAI 2026)*, Ghent, Belgium. (Oral Presentation)
- Shingleton, J., Bıçakçı, Y. S., Wu, M., Wang, Y., & Basiri, A. (under review). Evaluating explanation integrity in a vision language model for urban perception. *Transactions in GIS*.

AWARDS

- Excellent Paper Award (Top 2), International Conference on Activity and Behavior Computing Japan, 2024
- Conference Support Funding United Kingdom, 2024
- Outstanding International Graduate Award, sole recipient, ESIEE-Paris France, 2014

LANGUAGES

Mandarin Chinese: Native

English: Fluent

French: Fluent