PERSONAL INFORMATION Lê Quang Tuệ

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Nationality Vietnamese

BIO

Award-winning Data Journalist for natural disasters, administrative boundary changes, and geospatial storytelling. Digital Humanist bridging the gap between historical archives and geospatial analysis. Founder of the Vietnam Map Archive, an initiative for spatio-temporal knowledge hub and urban reconstruction for Vietnam.

RELEVANT WORK EXPERIENCE

01/2026 - Present

Document, Image & Geospatial Mapping Technician - AI/LLM Specialist

Vietnam Wartime Accounting Initiative, Texas Tech University | Remote

- **HTR Pipeline Architecture:** Deploying an automated pipeline utilizing AI and human verification to process 2.7 million pages of archival documents, integrating automated routing and Handwritten Text Recognition.
- **Geospatial Transformer:** Build pipeline for georeferencing wartime maps; convert Indian 1960 to WGS84 datum and geotagging documents; linking captured documents and archival records.
- **Automated Reporting:** Developing an "Automated Report Builder" that prefills Case Reports with extracted entities and AI-drafted narratives to streamline MIA accounting.

06/2025 - Present

Founder & Lead Developer

Vietnam Map Archive (Independent Project) | Remote

- **Strategic Leadership & Product Management:** Lead the initiative to build an open-source digital heritage platform. Orchestrated cross-functional teams (Research, GIS, Tech) to standardize workflows and secured technical partnerships to enhance project infrastructure.
- **Open-Source Development & GIS Implementation:** Architected and deployed the MVP web platform integrating IIIF standards for high-resolution map rendering. Established a robust georeferencing pipeline to transform analog historical maps into interactive spatial data.
- **Community Operations & Data Governance:** Built and managed a beta community of 50+ contributors. Designed the project's "Playbook" and QA/QC protocols to streamline metadata collection, ensuring data integrity and facilitating a scalable crowdsourced model.

06/2024 - Present

Data Journalist

VnExpress | Ho Chi Minh City, Vietnam

- **Automated Data Gathering:** Engineered ETL pipelines to scrape and clean real-time meteorological data (NOAA, JTWC) for a natural disaster dashboard, enabling live tracking of typhoons, floods, and landslide risks.
- **Geospatial Storytelling:** Spearheaded spatial projects such as "50 Years of HCMC Planning," utilizing GIS to digitize historical maps (1975–present) and simplify complex urban data for general readership.
- **Interactive Visualization:** Developed custom interactive lookup tools and scrollytelling features using HTML/Tailwind/JS to report on healthcare, environment, and administrative reforms.

EDUCATION

2017 - 2021

B.A. in International Relations
University of Social Sciences and Humanities, Vietnam National University - HCMC

PERSONAL SKILLS

Communication skills

- **Cross-disciplinary collaboration:** Excellent ability to bridge the gap between technical data analysis and storytelling, gained through daily collaboration with editors and reporters to produce data-driven articles.
- **Expert interviewing:** Strong interviewing skills acquired during the "50 Years of HCMC Planning" project, where I engaged with urban planning experts to interpret complex spatial data for general readers.
- **Presentation:** Experience in presenting heritage and data preservation topics, demonstrated through my presentation at Engaging With Vietnam in December 2025.

Organisational/managerial skills

- **Project Leadership:** Experience in leading digitization initiatives, currently applied in developing the Vietnam Map Archive (VMA) model to digitize historical documents.
- **Data Management:** Strong organizational skills in structuring and maintaining large-scale datasets, demonstrated by the creation of the internal "Master Data" repository for Vietnam's administrative boundaries and leadership personnel for the newsroom.
- **Workflow Optimization:** Ability to plan and execute long-term projects while managing immediate breaking news deadlines, specifically regarding natural disaster tracking (typhoons/floods).

Job-related skills

- **Data Investigation:** Proficient in "Data-driven investigation," capable of identifying newsworthy stories from raw datasets (census, environment, infrastructure) rather than just visualizing existing content.
- **Automated Data Gathering:** Skilled in building automated pipelines (ETL) to crawl, scrape, and clean data from government portals and international meteorological agencies (NOAA, JTWC) for real-time reporting.
- **Historical Geography Research:** Deep knowledge of Vietnamese administrative history and geography, acquired through the digitizing of historical maps.

Digital competence

- **Geospatial Analysis (GIS):** Proficient in QGIS for processing complex spatial data (vector/raster), satellite imagery analysis, and historical map georeferencing. Acquired through daily work as a Data Journalist and the VMA project.
- **Programming for Data:** Proficient in Python (Pandas, GeoPandas, Requests) for data cleaning, statistical analysis, and automation. Acquired through self-study and practical application at work.
- **Web Development for Interactives:** Skilled in **HTML, CSS (Tailwind), and JavaScript** to build custom interactive dashboards and scrollytelling formats. Acquired during the development of data visualization projects like "Hanoi Air Quality" and "Administrative Boundary Lookup".

Other skills

Heritage Preservation: Knowledge of digital humanities and archival practices, gained through independent research and involvement in the Vietnam Map Archive project.

ADDITIONAL INFORMATION

**Publications
Honours and awards**

- **3rd Prize, National Press Award (2024):** Recognized for excellence in reporting on Typhoon Yagi.
- **2nd Prize, National Press Festival:** Awarded by the Vietnam Journalists Association for the 50th Anniversary of the End of the Vietnam War project.