

CHUAN LI

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Education

Sorbonne University & LIPADE, Université Paris Cité

Ph.D. Candidate in Computer Science; Teaching Associate (C/C++/Java)

Paris, France

Oct. 2022 – Sept. 2025

ANR — Agence Nationale de la Recherche

*Collaborative project with the **World Bank**: Digital Contact Tracing on Empirical Contact Networks*

France

2022–2025

Joint Research with SAMOVAR, Telecom SudParis, Institut Polytechnique de Paris

Thesis: *Proactive Mobility, Naming and Caching in Next-Generation Mobile Services*.

Full doctoral scholarship awarded by Sorbonne University.

Teaching Associate at Polytech Sorbonne (Algo C, Algo Java, Computer Architecture and Embedded Systems, Tools for Computer Science)

Doctorant conseil en innovation (project 4EU+, Renault Group): Strategic Road Noise & Energy Efficiency Challenge (Jan – Jul 2025). Acted as PhD consulting lead in the 4EU+ Strategic Road Noise & Energy Efficiency Challenge, co-developing a scalable, sensor-agnostic Road-Traffic Noise Model (RTNM) for city-scale deployment. Led model refactoring, validation (RMSE = 3.8 dB(A), $\rho = 0.83$), and policy diagnostics, enabling real-time impact evaluation of speed-limit reforms. The results directly supported strategic recommendations adopted by Renault, earning formal recognition from the project committee. Prof. Valérie Patrin-Leclère and Herve Marc commended the methodological innovation and practical relevance of the delivered solution.

INSEAD

Business Foundations Certificate (BFC) — Executive Education

Fontainebleau, France

2025

Heidelberg University

Visiting Scholar, 4EU+

Heidelberg, Germany

Mar – Oct 2025

Joint Research in Spatiotemporal Modelling & Infectious-Disease Prediction.

Predicted viral-transmission risk in real-world social networks using STGNNs combined with Physics-Informed NNs.

Massachusetts Institute of Technology

MicroMaster's Degree in Statistics and Data Science

Cambridge, USA

Sept 2021 – Oct 2022

Sorbonne University – Polytech Sorbonne

M.Eng. in Electrical & Computer Science (GPA 17.83/20, Rank 2/48)

Paris, France

Sept 2018 – Jul 2021

University of Poitiers

B.Sc. (Year 2) in Electrical & Computer Engineering (GPA 13.88/20, Rank 8/120)

Poitiers, France

Sept 2016 – Jul 2018

Research Experience

LIPADE, Université Paris Cité & Institut Polytechnique de Paris

Ph.D. Researcher – Deep Learning (GNN) for Human Mobility & Geospatial Optimisation

Paris/Palaiseau, France

Oct 2022 – Present

Fusion of spatial data, network optimisation and energy-efficient transport planning.

Teaching Associate at ENSTA Paris (Algo C [\[IN101 course link\]](#)) and ESIEE Paris (Deep Reinforcement Learning).

Telecom SudParis, Institut Polytechnique de Paris

Research Engineer – Spatio-Temporal Data Analysis

Palaiseau, France

May – Oct 2022

Designed grid frameworks and applied ML techniques to map mobile-phone data.

Teaching Experience

Polytech Sorbonne, Sorbonne Université

Teaching Associate

Paris, France

2022 – Present

Architecture des ordinateurs (EPU-F5-IAR) – Intervenant	2023/24, 2024/25
Programmation Objet JAVA (EPU-E7-IJV) – Responsable pédagogique	2023/24, 2024/25
Mise à niveau (EPU-F5-DAN) – Intervenant	2023/24
Outils pour l'informatique (EPU-F5-IOP) – Intervenant	2023/24
Algorithmique & Programmation (C) – Intervenant	2022/23

ENSTA Paris

Teaching Associate

Palaiseau, France

2023 – Present

Algorithmique & Programmation (C) [IN101] – Intervenant	2023/24
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ESIEE Paris

Lecturer

Noisy-le-Grand, France

2023 – Present

Deep Reinforcement Learning – Lecturer	2023/24, 2024/25
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Industry Experience

CAMEL-AI.org

Technical Illustrator & Communication Ambassador (Part-time, Remote)

London, England, United Kingdom

Nov 2024 – Present

Designed clear, visually engaging technical illustrations and diagrams to support CAMEL-AI's educational resources, including research papers, blog posts, and social media content.

Collaborated with AI researchers and developers to translate complex concepts into accessible visual narratives for a broad audience, enhancing public understanding of cutting-edge AI.

Led outreach initiatives to promote responsible and inclusive AI development through CAMEL-AI's communication channels, increasing engagement across academic and general audiences.

Supported branding and content strategy by aligning visual identity with CAMEL-AI's mission to democratize access to AI research and ethics.

Group Renault, Alliance Engineering Dept. (DEA-TDV)

Research Engineer

Guyancourt, France

Sept 2018 – Aug 2021

Optimised ADAS reliability using Python and ML-driven data analysis, reducing testing time via scenario prioritisation.

Built VBA/Python dashboards to monitor real-time vehicle performance (e.g., sensor accuracy).

TASFAIM (start-up)

Co-Founder & CTO (Part-time, Remote)

Cergy, France

Oct 2021 – May 2022

Applied geospatial analytics to identify high-demand areas and guide scalable infrastructure deployment.

Schneider Electric

Engineering Intern

L'Isle-d'Espagnac, France

Apr – Jul 2018

Designed fingerprint-authentication module for industrial control terminals.

Leadership & Awards

NETMOB 2025 – Top-3 Best Paper

Paris, France

On the Utility of Digital Contact Tracing on Empirical Contact Networks (Project of ANR and The World Bank)

ACM SIGSPATIAL GIS Cup 2024 – 1st Place

Atlanta, USA

EV charging-station placement optimisation balancing accessibility, efficiency and sustainability.

China Fujian Global Innovation and Entrepreneurship Competition 2025

Xiamen, China

DOVA-PATBM: An Intelligent Optimisation Framework for Large-Scale EV Charging Infrastructure.(Excellence Award, World's Top 10, Advanced Manufacturing Track)

Datathon Sécurité Ferroviaire 2025 – 3rd Place

Paris, France

Predictive risk-assessment model to identify high-risk rail segments and prioritise maintenance.

MIT HackMed GrandHack 2025 – Assistive Tech Track

Cambridge, USA

Co-developed *GLOOP*, an AI-powered diabetes-management system integrating CV and RAG.

Mistral AI Hackathon (-Gaming Edition) 2025

Paris, France

Built *Sarah's Chronicles*, an AI-generated interactive storytelling platform.

Hi! Paris Hackathon 2024 – Technical Excellence (4th)

Paris, France

Predicted groundwater levels during summer using multimodal data.

Mistral AI × Alan Hackathon 2024 – 4th Place (Accuracy)

Paris, France

Developed *Milan*, a multimodal AI healthcare assistant with personalised guidance.

Key Consulting & Research Projects

Hybrid AI-driven modelling: road-interaction GNNs & physics-informed PINNs.

Geospatial data analysis and modeling or transportation science

Geospatial data structuring: QGIS road characteristics, traffic, 3D infrastructure for noise & aerodynamics.

Integrated Navier–Stokes and acoustic-wave equations into PINN models to optimise vehicle–road interactions.

Provided policy recommendations on road-surface materials, speed regulations & infrastructure upgrades.

Outlined large-scale deployment strategy for Renault patented noise-assessment solutions.

Selected Publications

Accepted

Li, C., Zhao, S., Gauthier, V., & Moun gla, H. “Large-Scale Optimisation of Electric-Vehicle Charging Infrastructure.” *Proc. ACM SIGSPATIAL 2024*. (Oral Presentation & Best Paper Award).

Li, C., Gauthier, V., Nunez del Prado Cortez, M., Alatr ista-Salas, H., & Moun gla, H. “On the utility of Digital Contact Tracing on empirical contact network.” *Netmob 2025* (Oral Presentation).

Li, C., Gauthier, V., H., Moun gla, H. & Hu, Z. "Discovering Functional Urban Zones via Heterogeneous Graph Convolution on High-Resolution Mobility Data." *NetMob 2025*.

Li, C., Yang, R. “An Applied ML Pipeline for Geospatial Groundwater-Level Classification Supporting Early Warning & Resource Planning.” *ICML 2025 NewInML*.

Li, C., Yang, R., Gauthier, V., & Moun gla, H. "Automated Ensemble Learning for Proactive Groundwater Management: Early Warning and Allocation." *ACM SIGSPATIAL 2025 GeoAI* (Full Research Paper & Oral Presentation).

Hu, Z., Li, C., Gauthier, V., & Moun gla, H. "Fine-Grained Urban-Grid Clustering of Mobile-Phone Metadata with Deep Spatio-Temporal Clustering." *IEEE IJCNN 2025* (Oral Presentation).

Hu, Z., Li, C., Gauthier, V., Nunez del Prado Cortez, M., & Moun gla, H. "Spatio-Temporal Analysis of Mobile Service Consumption for Social-Signature Clustering." *NetMob 2023*.

Under Review

Li, C., Gauthier, V., Nunez del Prado Cortez, M., Alatr ista-Salas, H., & Moun gla, H. "Assessing the Usefulness of Digital Contact Tracing Using Real-World Contact Data." *Nature Scientific Reports*.

Li, C., Zhao, S., Gauthier, V., & Moun gla, H. "DOVA-PATBM: An Intelligent, Adaptive, & Scalable Framework for Optimising Large-Scale EV-Charging Infrastructure." *ACM WWW 2026*.

Li, C., You, J., Gauthier, V., Nunez del Prado Cortez, M., Alatr ista-Salas, H., & Moun gla, H. "Enhancing Spatio-Temporal Forecasting with Spatial Neighbourhood Fusion: A Case Study on COVID-19 Mobility in Peru." *IEEE ICASSP 2026*.

Yang, R., Li, C. "Semi-Automatic Connection Recovery of 3D Tubular Structure Skeletons via Component-Wise MST and Filtered Delaunay Triangulation." *Eurographics 2026* (under review).

Ongoing

Li, C., Gauthier, V., Nunez del Prado Cortez, M., Alatr ista-Salas, H., & Moun gla, H. "Belief Propagation for Digital Contact Tracing: Infection-Time Inference and Risk Forecasting A Case Study on Real-World Data from Peru." *ACM WWW 2026*.

Li, C., Gauthier, V., Nunez del Prado Cortez, M., Alatr ista-Salas, H., & Moun gla, H. "Nation-Scale Risk Mapping from Human Mobility Data Using Time-Decayed Line Graphs." *ACM KDD 2026*.

Hu, Z., Li, C., Naima, M., & Gauthier, V. "Distribution Shift for Spatio-Temporal Networks." *ACM KDD 2026*.

Li, C., Zhao, S., Li, X., Geng, W., Li, M., Gauthier, V., & Moun gla, H. "Realistic Road-Network Accessibility of Electric Vehicle Charging Infrastructure in the United States." *Nature Cities 2026*.

Technical Skills & Interests

Programming: Python, C/C++, Java, R, Scala, SQL, MATLAB, JavaScript, PHP, VHDL, VBA.

ML & Data: PyTorch, TensorFlow, Spark, Hadoop, GNNs, RL, Geospatial Science, Data Fusion.

Tools: QGIS, CARLA, SCANeR, VISIM, LaTeX, Git, Office; Cloud (IoT), MQTT, RTOS.

Languages: Chinese (native), French (fluent), English (TOEIC 855), Japanese (basic).

Interests: Ultra-trail running, marathon, swimming, cycling, photography.