

Kang Liang

Chinese nationality, born in 02/1997 Jiangxi

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I obtained my PhD at CIRED laboratory, Ecole des Ponts ParisTech (ENPC, now a member of IP Paris, QS ranking 46), on the 21st November

JOB MARKET CANDIDATE

Field: Transport and urban planning

Themes: Geography, Transport and Mobility, Statistics, Carbon Mitigation

Methods: spatial analysis, probabilistic models, econometric analysis, 4-step transport models, agent-based models.

Education

11/2021-11/2025 **Ecole des Ponts ParisTech, France**

PhD, Transport and urban planning Supervisor: Fabien Leurent

09/2018-08/2020 **Ecole des Ponts ParisTech, France**

Master, Urban planning. Course in French.

09/2014-06/ 2018 **Wuhan University, China**

Bachelor of Science, Geographical science

Scientific publications

- Liang, K., & Leurent, F. (2025). Commuting Patterns and Emissions in Paris-Île-de-France: A Comparative Study of Interregional and Intraregional Travel. *Transportation Research Record*, 03611981251352507. (**JCR Q2**)
- Liang, K., & Leurent, F. (2025). From where I live, where are the jobs? Home-to-work relations, job basins and the related “opportunity spectra” in France as of 2019. Submission by Dec 2025.
- Liang, K., Leurent, F., & Le Boennec, R. (2024). Is commuting a daily behaviour? Rhythmic evidence in France, as of 2019. *Transportation*, 1-43. (**JCR Q1**)
- Leurent, F., & Liang, K. (2022). How Do Individual Walk Lengths and Speeds, Together with Alighting Flow, Determine the Platform Egress Times of Train Users?. *Journal of Advanced Transportation*, 2022. (**JCR Q2**)
- Liang, K., Deep Learning-Based Identification of Urban Villages in Optical Remote Sensing Images[C]. //Proceedings of the 2018 Academic Annual Conference of the Chinese Society for Geodesy, Photogrammetry, and Cartography. 2018:83-89.

Other scientific Projects

- **Review on Passenger Flow Modeling at Railway Platforms:** Covered major transport modeling tools used in Europe and the United States, ranging from macro to micro scales. *Oct. 2020 – Feb. 2021, IDFM-ENPC joint project, presented at THNS 2020 and the 3rd Francophone Meetings Transport Mobility*
- **VINCI Project on Rapid Transit Development in France:** Analyzing and producing travel flow data across French regions using 2018 census data. The project is led by André Broto, Director of Strategy and Foresight, VINCI Autoroutes. *Dec. 2022 – Present*
- **Travel Modeling Data Analysis Based on the French Household Budget Survey (BDF):** Conducted at CIRED as part of a research project within the IMACLIM modeling framework. *Oct. 2023 – Mar. 2024*

Professional experience

Research assistant:

- 10/2020-02/2021 GRETTIA laboratory, Université Gustave Eiffel
- 03/2021-10/2021 CIRED laboratory, Ecole des Ponts ParisTech

Teaching in French:

- 09/2020- 02/2021 “TransitLab” student group project at ENPC, France
- 10/2023-12/2024 "Case Study of Mobility Modelling" module at CentraleSupélec, France

Internship:

- 06/2019- 08/2019, LVMT laboratory, Ecole des Ponts ParisTech. Internship report on “C++ programming of a route choice model on a dynamic network”
- 02/2020 – 07/2020, SNCF Transilien. Internship report on “Improvement of SNCF's ARES model: a calibration of the model on the distribution of passengers between origins-destinations where several links are available.”

Main Communications in English and French

- **June 2021, 3rd Francophone Meetings Transport Mobility**, Marne-la-Vallée, France
- **Octobre 2023**, Annual seminar of «**La Chaire Mobilité territoriale**» : “Mobility behaviors: between permanence and renewal”, Nogent sur Marne, France
- **November 2023, THNS2023 forum** (The 16th International Symposium on Sustainable Development of Urban Transport Systems) co-organized by Tongji and ENPC, Online
- **January 2025, TRB annual meeting**, presentation entitled “Commuting Patterns and Emissions in Paris-Île-de-France: A Comparative Study of Interregional and Intraregional Travel”, Washington D.C., USA
- **January 2025, Diversity of territories and flows-ATEC ITS Congress**, Paris,

France

- **November 2025, THNS2025 forum** (The 18th International Symposium on Sustainable Development of Urban Transport Systems) co-organized by Tongji and ENPC, Shanghai, China

Skills

Software: QGIS, VISUM, TransCAD, Office, Stata etc.

Programming: Python, C++

Language: English (IELTS 7, GRE 320+3.5), French (TEF B2), Spanish (B1)

Key Awards

- Third Prize, Chinese National Physics Olympiad, 2013
- First Prize, National English-Chinese Interpretation Contest, 2015
- Second Prize, National English-Chinese Translation Contest, 2016
- Second Prize (Hubei Province), 2nd National University Geography Science Presentation Competition, 2016
- Undergraduate Scholarship, Wuhan University, 2017
- “Most Popular Team” Award, Guangzhou CVTE Campus Marketing Elite Challenge, 2017
- Second Prize for Outstanding Youth Paper, Annual Academic Conference of the Chinese Society for Geodesy, Photogrammetry and Cartography, 2018
- Gold Award for Best Research, THNS Forum “Resilient Transport and Livable Cities”, 2023

Hobbies

- **Sports:** Basketball (since 2006), Kizomba dance, hiking, skiing, mountain biking
- **Travel:** Visited over 30 countries
- **Reading:** Interests include history, folklore, classical Chinese literature, and biographies of influential figures
- **Volunteering Experience:**

1. **International Summer Camp Organizer**, Wuhan University (2016). Supported students from the UK, France, and Singapore in adapting to life in China. Roles included Chinese language class assistant, tour guide, and activity coordinator.
2. **Cultural Documentary Project in Ecuador** (2023). Served as Chinese-Spanish interpreter for a joint China-Ecuador filming team. Assisted with filming, interviews, and preparations for the local Inti Raymi (“Festival of the Sun”).
3. **THNS Forum Organizer**, Paris (2024). Coordinated between Tongji University and ParisTech teams in organizing an academic forum on transport and urban resilience. Served as liaison for Chinese-French collaboration.