

# Liqun LIU

PhD Student in Computer Science

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## Education

- 2018 –present **PhD, Computer Science**, *Ecole Centrale de Lyon (LIRIS), Université de Lyon, Lyon, France.*
- 2014–2017 : **Master of Engineering, Intelligent Transportation Systems**, *Wuhan University of Technology (WUT), Wuhan, China.*
- 2010–2014 : **Bachelor of Engineering, Marine Engineering**, *Wuhan University of Technology (WUT), Wuhan, China.*

## Publications

### Journal Articles

- 2022 **Liqun Liu** and Romain Vuillemot. GRIDIFY: A Tool to Explore Implicit Relationships of Geo-Connecte Entities using Grid Patterns. *The Cartigraphic Journal*, 2022. (Under review)

### Conference Articles

- 2022 **Liqun Liu** and Romain Vuillemot. GroupSet: A Set-Based Technique to Explore Time-Varying Data. *EuroVis 2022 - Short Papers*, the Eurographics Association, June 2022. (Download)
- 2021 **Liqun Liu** and Romain Vuillemot. Categorizing quantities using an interactive fuzzy membership function. In *The 12th International Conference on Information Visualisation Theory and Applications*, 2021. (Download)
- 2021 **Liu, Liqun** and Romain Vuillemot. Categorizing quantities using an interactive fuzzy membership function. In *The 12th International Conference on Information Visualisation Theory and Applications*, 2021.
- 2017 Hui Zhang, Chaozhong Wu, Wenhui Chu, and **Liu, Liqun**. Analysis of fatigued driving lateral performance considering highway horizontal alignment design: A field study in china. Technical report, 2017.
- 2017 **Liqun, Liu**, Wu Chaozhong, Zhang Hui, AH Naji Hasan, Chu Wenhui, and Atombo Charles. Research on taxi drivers' passenger hotspot selecting patterns based on gps data: A case study in wuhan. In *2017 4th International Conference on Transportation Information and Safety (ICTIS)*, pages 432–441. IEEE, 2017.
- 2017 Hasan AH Naji, Chaozhong Wu, Hui Zhang, and **Li, Liqun**. Towards understanding the impact of human mobility patterns on taxi drivers' income based on gps data: A case study in wuhan—china. In *2017 4th International Conference on Transportation Information and Safety (ICTIS)*, pages 1152–1160. IEEE, 2017.
- 2015 **Liqun, Liu**, Wan Ping, Wu Chaozhong, and Zhou Tuqiang. Research on yangtze river waterway transportation safety evaluation model based on fuzzy logic theory. In *2015 International Conference on Transportation Information and Safety (ICTIS)*, pages 732–738. IEEE, 2015.

## Workshop Articles

- 2021 **Liqun Liu** and Romain Vuillemot. MULTISET: An Interactive Visual Analysis Tool for Multi-dimensional Quantitative Data. *Journée Visu*, 2021.(Download)
- 2019 Romain Vuillemot, **Liqun Liu** and Theo Jaunet. Towards Geo-Fuzzy Sets Analysis. *SetVa Workshop at IEEE Vis*, 2019.(Download)

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## Research Experience

### Wuhan University of Technology

- April, 2016 – **Research on Idling Taxi Route Optimization and Real-time Inducing Method Based on Big Data**, *Project leader*.  
Mar, 2017 Develop a model for repositing
- May, 2015 – **Sharing Platform Construction of Road Traffic Safety Research Results**.  
Sep, 2015 Manage the website and organize the data.
- June, 2014 – **Key Technology and Application Research of Big Data Platform about Yangtze River Navigation**.  
Aug, 2015 Develop a safety model for evaluating the safety index of Yangtze River Navigation.

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## Computer skills

Programming Languages	Python, Javascript, Node.js, HTML, CSS, MATLAB
Framework	D3, PyTorch, TensorFlow
Tools	Git, Heroku
Software	ArcGIS, SPSS
Database	PostgreSQL

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## Honors & Awards

- Dec, 2017 Excellent Graduate of WUT
- Oct, 2016 China Classification Society Scholarship
- Sep, 2016 The First Prize Scholarship of WUT
- Sep, 2016 Merit Student of WUT
- Sep, 2015 The First Prize Scholarship of WUT
- Sep, 2015 Innovation Scholarship of WUT
- Sep, 2015 National Scholarship

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## Academic Achievements & Recognition

- 2018 **Session Chair of the session "Text and Document Visualization"** in 12<sup>th</sup> **International Conference on Information Visualisation Theory and Applications**, online.

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## Soft skills

- Languages Mandarin, English, French (Beginner)