

# Modeling Free-floating Car-sharing use in Switzerland

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## A Spatial Regression and Conditional Logit Approach

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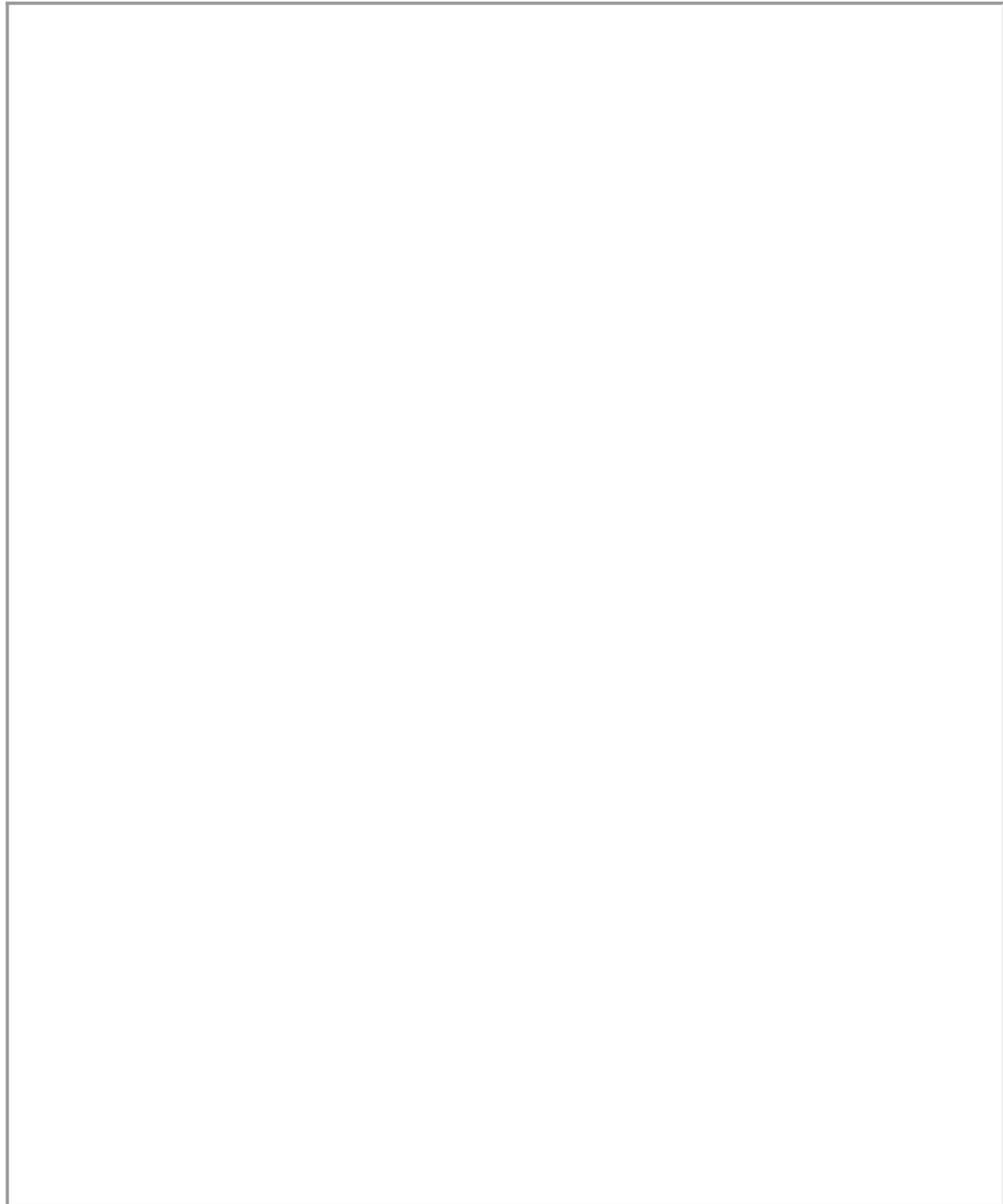
**Research commissioned by:** ETH Zurich Institute for Transport Planning and Systems

### Why did we select this research?

Using spatial regression and conditional logit analysis of original transaction data of a free-floating car-sharing scheme in Switzerland, this research shows that free-floating car-sharing is mainly used for discretionary trips, for which only substantially inferior public transportation alternatives are available. In contrast to station-based car-sharing, it does not rely on high-quality local public transportation access, but bridges gaps in the existing public transportation network.

### Key findings:

- Free-floating car-sharing is mainly used for discretionary trips, for which only substantially inferior public transportation alternatives are available.
- Station-based car-sharing relies on local public transportation access, whereas free-floating car-sharing bridges gaps in the public transportation network.



## Reference:

Becker, H., Ciari, F., & Axhausen, K. W. (2017). Modeling free-floating car-sharing use in Switzerland: A spatial regression and conditional logit approach. *Transportation Research Part C: Emerging Technologies*, *81*, 286-299. Retrieved from:

<https://www.sciencedirect.com/science/article/pii/S0968090X17301614>.

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