



Jorge A. Barrios

Jorge develops data-driven recommendations for informed decision-making on projects such as regional transportation plans, traffic impact, and safety analyses. Jorge is highly skilled in data analytics and visualization.

PROJECT EXPERIENCE

SS4A School Zone Focus Plan — Broward County, FL — *Subconsultant*

Jorge developed and executed a prioritization methodology that ranked 300 schools using environmental characteristics and crash history. The top schools were advanced to site assessments, which Jorge also supported through the collection and analysis of Google Maps traffic data. Finally, Jorge developed a crash data dashboard for all 300 schools.

Intersection Control Evaluation for Mixed-Use Development — Titusville, FL - *Project Manager*

Jorge assessed the traffic operational and safety performance of different intersection control alternatives for a proposed mixed-use development. Because the project is on a state road, the analysis needed to meet FDOT's new Intersection Control Evaluation (ICE) process. The analysis found that an unsignalized Restricted Crossing U-Turn (RCUT) intersection would provide the best balance of safety and traffic operations while aligning with FDOT spacing standards.

MetroPlan Orlando General Planning Consultant — *Project Manager**

Jorge supported MetroPlan Orlando since 2016 with a wide variety of transportation projects, ranging from neighborhood-level origin-destination analyses to regional freight planning. Other notable projects that Jorge led for MetroPlan Orlando included:

- * **Sidewalk Gap Prioritization:** Jorge led an innovative analysis of thousands of sidewalk gaps in the regional roadway network, using a combination of qualitative and quantitative data points to develop a prioritized list. MetroPlan Orlando is actively filling those gaps through a new \$1M/year fund.
- * **Annual Before/After Signal Retiming:** Jorge led the analyses of connected vehicle data from Wejo to provide a comprehensive picture of the effects of signal retiming on more than 20 corridors in the region.
- * **Equity Audit Support:** Jorge was the project manager for a pioneering effort to identify areas with disadvantaged populations and quantify and compare transportation outcomes in those areas.

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EDUCATION

University of California, Berkeley — *MS Civil-Transportation Engineering (2011)*

University of Florida — *BS Civil Engineering (2009)*

YEARS OF EXPERIENCE

14

AWARDS + RECOGNITIONS

TRB Transit Data Challenge - Finalist (2019)

Institute of Civil Engineers: Young Professional and Student Paper Competition
First Place (2012)

National Science Foundation Grad. Research Fellow (2010)

REGISTRATIONS

Professional Engineer FL (#78827)

Professional Engineer CA (Civil #82329)

LANGUAGES

Fluent in English, Spanish, and Portuguese



* While at another firm