

# FEDERICO TALLIS, AICP

Washington DC 20008 | Federico.Tallis@gmail.com

---

## WORK EXPERIENCE

**Transportation Planner - VHB. Washington, DC.**

**December 2018 – Current**

- **Mobility Data Analytics** – Serve as the power GIS user and in-office data expert for designing and implementing complex transportation planning analyses to forecast travel demand. Work with datasets including mobile location data, census data, regional travel model forecasts, local zoning data, data on the built environment, GBFS (General Bikeshare Feed Specification) and the Google API.
- **Mobility Tool Development** - Developed a series of visualization tools built on RShiny to translate large APC (Automatic Passenger Count)/ AVL (Automatic Vehicle Location) datasets into meaningful actionable data. Merged aforementioned datasets with GTFS (General Transit Feed Specification Data) and mapped data onto an interactive platform that empowers users to understand transit Boardings, Alightings, Passenger Load, Vehicle Dwell, On-Time-Performance, Speed, Travel Time, and Delay.
- **Transportation Data Migration and Optimization** – Developed a series of scripts to translate GTFS to RTC (Rail Traffic Controller) saving hundreds of hours of model development. Wrote additional scripts to randomize, enhance, and summarize data outputs. Developed visualizations to simulate rail activity.
- **Multimodal Transportation Planning** – Developed strategic plans to improve multimodal transportation access and reduce traffic/parking congestion.
- **Transit Operations and Route Planning** – Reviewed ridership trends and identified systemwide improvements to minimize service overlap and increase transit network efficiency.
- **TDM Policy Development** – Helped structure municipal TDM Policies related to real-estate development projects for communities in New England.

**Senior Associate - Wells + Associates. Silver Spring, MD.**

**April 2013 – December 2018**

- **TDM Planning** – Wrote dozens of Transportation Demand Management (TDM) plans to reduce traffic generation and parking demand.
- **Market Research** – Led dozens of transportation survey efforts to inform multimodal planning.
- **Database Development** – Architect of an individualized marketing tool built upon Salesforce that serves to communicate with commuters and encourages them to rethink their travel behavior.

**Data Scientist - BreakShuttle. Silver Spring, MD.**

**September 2017 – December 2018**

- **Data Analysis** – Developed financial models to optimize revenue for the 2018-2019 operating year. Dissected consumer trends and provided recommendations which led to a 40% increase in revenue. Generated ridership forecast models to determine whether sales targets are on target.

## PUBLISHED BOOK

Building a Multimodal Future: Connecting Real Estate Development and Transportation Demand Management to Ease Gridlock, co-authored with Justin Schor. Washington DC: Urban Land Institute, 2019.

## EDUCATION

**University of Southern California. Los Angeles, CA.**

**June 2012 – May 2014**

Masters of Science: Geographic Information System Technologies (online), Overall GPA: 3.95

Thesis: Evaluating Transit and Driving Disaggregated Commutes through GTFS in ArcGIS.

**California Polytechnic University San Luis Obispo. San Luis Obispo, CA.**

**September 2007 – June 2011**

Bachelor of Science: City and Regional Planning; Focus Transportation Planning, Overall GPA: 3.65

## QUALIFICATIONS

- Advanced coding in R. Proficiency in Python.
- Advanced knowledge of GIS concepts, tools, and developer libraries.
- Strong familiarity with transportation industry data types and standards.
- 2019 Award winner of the Association of Commuter Transportation (ACT) 40 under 40.