# Joy Pasquet

## City Planner | Engineer | Geospatial Analyst

Educati	ion		
2017-2019	MASTER OF CITY PLANNING Concentration: Transportation Policy and Planning.	University of California, Berkeley	CA, USA
2013-2017	Scholarship: Fulbright Foreign Student Program, French-Ame M.SC. IN SCIENCE AND EXECUTIVE ENGINEERING	erican Fulbright Commission. MINES ParisTech	France
	Concentration: Public Affairs and Innovation.		
Work ex	xperience		
2019-2020	URBAN PLANNING ANALYST	Uber – JUMP Bikes	CA, USA
	<ul> <li>Leveraged urban planning expertise and geospatial analysis</li> <li>Conducted geospatial analyses combining internal of Collaborated with Market Entry, Launch, Policy of designing new system areas, identifying deployind dockless bike and scooter permits in 8 cities.</li> <li>Developed a methodology to recommend adeque collaborated with Policy teams to share recommend</li> </ul>	tics to support JUMP operations and expansion g and open source data on 20 cities across 11 co and Operations teams on expanding JUMP g nent locations, and producing ad-hoc visual uate locations for micromobility parking invest	globally. untries. globally by izations for
2018	TRANSIT PERFORMANCE ANALYST San Fr	ancisco Municipal Transportation Agency	CA, USA
	<ul> <li>Analyzed transit-related operational metrics.</li> <li>Analysis of automatic passenger count data for the Stata and Excel;</li> <li>Compiling of rail annual ridership figures for light-rail for cable cars for the National Transit Database, usin</li> <li>Analysis of cable car time performance using Stata of the State cars for the National State of State</li></ul>	and streetcar lines and of the decennial ridersh g Tableau, Stata and Excel;	
2017	TRANSPORTATION ENGINEER	Setec international	France
	Conducted the socio-economic evaluation of a new high- - Data research and analysis for the socio-economic of - Drafting of an academic article laying out a retrospe - Preparation of the travel supply and demand comp	speed rail line in France. diagnostic, using Excel and VBA; active analysis of high-speed rail transport supply	
2015-2016	TRANSPORTATION ANALYST       The World Bank – Transport and ICT Global Practice       DC, USA         Managed transport investment projects in Sub-Saharan Africa.       -       Technical support in project management (review of procurement documents, drafting of memoranda of understanding, data research and analysis, financial and economic analysis, reporting) both for projects under preparation and implementation;       -       On-site project supervision (field visits, meetings with local government officials and project stakeholders) in Cameroon and Democratic Republic of Congo.		
Posoarc	ch experience		
		iversity of California Derkelov, SafeTDEC	
2017-present	<ul> <li>GRADUATE STUDENT RESEARCHER</li> <li>Developing a proactive approach to road safety.</li> <li>Cross-sectional analysis of traffic crash data from th of high-risk road facilities in 7 states, using Python, Exc.</li> <li>Analysis of bicycle crash data on the Caltrans ro improvements, using Excel and VBA;</li> <li>Recommendations to the City of San Diego on picture</li> </ul>	cel and ArcGIS; ad network to prioritize high-risk road facilitie	s for safety
	countermeasures to implement.	iony systemic heispels to target and safety c	ngniooning
2014-2015	GRADUATE STUDENT RESEARCHER Developed parking supply and demand predictions by 203 - Diagnostic of the eco-district around the future metric - Sizing of a park-and-ride facility through long-term tra-	o station, using Excel and TransCAD;	France
Skills			
	Native speaker French		
00	Fluent English, German, Spanish		
Software	General Microsoft Office, Tableau		
	Geographic Information System QGIS, ArcGIS, TransC/	AD, CartoDB	
	Programming Python, SQL, Stata, VBA, Java		
	Graphics and design Adobe Suite, Catia, SolidWorks		
Extra-cu	urricular activities		
Student	Diversity campaign co-chair (2018), treasurer & fundraising	manager (2014-2015), resident assistant (2014-20	215)
	<ul> <li>Breaduate delegate (2013-2014), career counseling chair (2</li> </ul>		J1JJ,

Hobbies Violin playing (9 years), music theory (11 years), singing (choir, lead singer).

### Academic & Professional Project Highlights

#### 2020 Recommending parking investments to cities - JUMP

<u>In short</u>: Developed a standard methodology to recommend locations for micromobility parking investments. <u>Geographical scope</u>: France (Paris), Germany (Berlin), Mexico (Mexico City), Portugal (Lisbon), United Kingdom (London), United States (Denver, Washington D.C.).

<u>Skill sets</u>: Python, SQL, H3 spatial index, QGIS, Adobe Illustrator, Web mapping.

- Created a framework to identify locations in need of micromobility parking investments (capacity increase, new location, bikeshare docks conversion), the type of infrastructure needed (bike racks v. painted drop zones), and target capacity.
- Wrote a Python & SQL script capable of generating recommendations within minutes for any given city, using internal and open source data (city portals, OpenStreetMap).
- Collaborated with Market Entry, Launch, Policy and Operations teams to include recommendations in dockless bike and scooter permits applications.
- Collaborated with Policy teams to share recommendations with policy-makers in 6 cities, which led to the installation of at least 6 recommended locations (as of May 2020).

#### 2019 Standardizing micromobility parking data - JUMP

In short: Piloted a new data architecture for micromobility parking public data.

<u>Geographical scope</u>: France (Paris), Germany (Berlin), Mexico (Mexico City), Portugal (Lisbon), United Kingdom (London), United States (Denver, Washington D.C.).

- Wrote a set of Python scripts to generate a standardized dataset with clean micromobility parking data, based on public data (city portals, OpenStreetMap) for ingestion into Uber's database.
- Piloted the new data architecture for 7 cities by collecting, cleaning and ingesting data into the database, and provided feedback on feasibility.

#### 2019 Designing service areas for dockless bikes & scooters - JUMP

In short: Standardized an international SOP for service area design.

<u>Geographical scope</u>: Australia (Gold Coast), Belgium (Brussels), France (Paris), Germany (Munich), Netherlands (Rotterdam, The Hague, Delft) New Zealand (Auckland), Spain (Madrid, Seville), United Kingdom (London), United States (San Francisco).

Skill sets: Python, SQL, Web mapping, QGIS, Adobe Illustrator, Languages (French, German, Spanish, Dutch).

- Streamlined the existing US-centered methodology for service area design to be compatible with any geography.
- Wrote a set of Python & SQL scripts capable of generating within minutes a prediction of micromobility demand for any given city, using internal and open source data (national census, city portals, OpenStreetMap), which can then be used to select service area boundaries.
- Implemented the methodology for 10+ cities across 3 business regions.
- Collaborated with Market Entry, Launch, Policy and Operations teams to get consensus on the final service area to be used in-app for 4 cities, and include it in permits applications.

#### 2018-2019 Microtransit in a transit-first city: rethinking the future of on-demand transit in San Francisco after Chariot - UC Berkeley

In short: Drew lessons from microtransit company Chariot in San Francisco as part of my master's <u>thesis</u>. <u>Geographical scope</u>: United States (San Francisco).

Skill sets: Python, ArcGIS, Adobe Illustrator, Adobe InDesign.

- Collected data on Chariot service in San Francisco and assessed the risk for competition between Chariot and Muni by analyzing potential ridership impact using Python.
- Generated a mock GTFS feed based on the advertised headways using Python.
- Assessed opportunities for synergies between fixed and on-demand transit by estimating transit accessibility improvements from integrating the Muni, BART, and Chariot networks, using Python.
- Conducted in-depth interviews with San Francisco stakeholders to gain insights on the relationships between transit and microtransit.

#### 2018 Electrification of peseros in Mexico City - UC Berkeley

In short: cost-benefit analysis of a policy aiming to electrify informal microbuses in Mexico City (group project). Geographical scope: Mexico (Mexico City).

<u>Skill sets</u>: Benefit-cost analysis, Python.

- Scoped out the policy and identified impacts to be included in the analysis.
- Modeled the evolution of the city's fleet over the policy's timeframe by using Python.
- Monetized impacts related to the fleet age on bus maintenance costs and road safety.