Contact Information	Milan, Italy (willing to relocate)	Mobile: +39.3397888114 E-mail: may.zurb@gmail.com WWW: LinkedIn D.O.B. 23/06/1990
Languages & Citizenship	Spanish (Native), English (Fluent), Italian (Advanced)	Colombian and Italian Pass- ports
Computational Skills	Languages: Python, Django, SQL, Java, JavaScript, HTML, PHP, UML, IAT _E X, R Databases: Postgres (+PostGIS extension), MySQL, Oracle Tools: QGIS, ArcGIS, OpenLayers, GeoServer	
INTRODUCTION	Accomplished researcher that managed to build bridges between industry and academia and made valuable contributions to both. Strong cooperation and self-management capabilities were built as a member of an interdisci- plinary GIS research group, as well as assertive verbal and written commu- nication skills. Obtained a PhD with an emphasis on geoprivacy and citizen science; modelling social media geo-referenced data to produce geospatial inferences and communicating the research outcomes in journals and inter- national conferences. As a developer, made key contributions to free and open source projects, including authoring the second edition of the PostGIS Cookbook and enabling hotspot analysis functionalities to the QGIS project.	
Professional Experience	Politecnico di Milano Research Fellow at the GEOlab (Geomatics an tory)	Nov 2018 to present nd Earth Observation labora-
	Manipulated spatial big data for pre-processing, modelling, and tuning ma- chine learning classification algorithms for land use mapping.	
	Universidad del Norte Adjunct Professor & Researcher	Jul 2013 to Nov 2018
	Participated in research projects that contributed to the doctoral thesis and taught the courses of Algorithmic Programming I, Algorithmic Programming II, and Data Structures.	
	• Developed replicable scenarios to gather, analyze, and identify trends with geo-referenced social media data.	
	• Developed algorithms that enable releasing open data with privacy re- quirements.	
	Politecnico di Milano Visiting PhD Student at the GEOlab (Geomatic oratory)	Nov 2015 to Nov 2016 cs and Earth Observation lab-

Visiting member of the GEOlab sponsored by the awarded Sustain-T grant by Erasmus Mundus.

- Assisted in teaching the course of Geographic Information Systems, and directed a master's project to develop the Hotspot Analysis plugin for QGIS.
- Managed and developed the MIGRATE game application for migration awareness, the game was funded by the awarded MYGEOSS challenge in 2016 by the European Commission.
- Collected and analyzed georeferenced social media data to conduct spatial autocorrelation studies in Italian regions.

IT Research & Consulting

Sep 2011 to Aug 2012

Junior Developer

Developed the eFranco platform using the django framework. eFranco is the main software used by the free trade zone company 'Zona Franca de Barranquilla', in which foreign business can operate with no tax obligation.

Carbones del Cerrejon Intern at Materials & Services Department Jan 2010 to Jul 2010

Assisted in the design and management of the balanced scorecard for the department, quantifying business goals through data analysis.

Selected Zurbarán, M., Wightman, P., Oxoli, D., Brovelli, M., Iliffe, M., Jimeno, PUBLICATIONS M., & Salazar, A. NRand-K: Minimizing the Impact of Location Obfuscation in Spatial Analysis. Transactions in GIS (accepted for publication) Zurbarán, M., Wightman, P., Paolo, C., Mather, S. V., Kraft, T. J., & Park, B. (2018). PostGIS Cookbook (Second Edition). Packt Publishing Limited. Wightman, P., & Zurbarán, M. (2018). An Initial Evaluation of the Impact of Location Obfuscation Mechanisms on Geospatial Analysis. In S. V Ukkusuri & C. Yang (Eds.), Transportation Analytics in the Era of Big Data (p. 28). Springer International Publishing. Cervantes-Henrquez, M. L., Acosta-Lpez, J. E., Martnez-Banfi, M. L., Vélez, J. I., Mejía-Segura, E., Lozano-Gutiérrez, S. G., Sánchez-Rojas, M. Zurbarán, M. A., Zurek, E. E., Arcos-Burgos, M., Pineda, D. A., & Puentes-Rozo, P. J. (2018). ADHD Endophenotypes in Caribbean Families. Journal of Attention Disorders. Brovelli, M. A., Minghini, M., Kilsedar, C. E., Zurbarán, M., Aiello, M., & Gianinetto, M. (2017). Migrate: A FOSS web mapping application for educating and raising awareness about migration flows in Europe. In International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives (Vol. 42, pp. 51-55). Oxoli, D., Prestifilippo, G., Bertocchi, D., & Zurbarán, M. (2017). Enabling Spatial Autocorrelation Mapping in QGIS: The Hotspot Analysis Plugin. Geoingegneria Ambientale E Mineraria, 151(2), 45-50.

Brovelli, M. A., Oxoli, D., & Zurbarán, M. A. (2016). Sensing Slow Mobility and Interesting Locations for Lombardy Region (Italy): A Case Study Using Pointwise Geolocated Open Data. In International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - IS-*PRS Archives* (Vol. 41, pp. 603-607). Zurbarán, M., Avila, K., Wightman, P., & Fernandez, M. (2015). Near-Rand: Noise-based Location Obfuscation Based on Random Neighboring Points. In IEEE Latin America Transactions (Vol. 13, pp. 3661-3667). Wightman, P. M., Zurbarán, M., Rodríguez, M., & Labrador, M. A. (2013). MaPIR: Mapping-Based Private Information Retrieval for Location Privacy in LBISs. In Proceedings - Conference on Local Computer Networks, LCN (pp. 964-971). 2016 MYGEOSS Challenge by the European Commission 2015 Sustain-T project - Technologies for Sustainable Develop-GRANTS & ment by Erasmus Mundus AWARDS 2013 PhD Scholarship by Universidad del Norte 2012 Young Researcher by Colciencias Universidad del Norte, Barranquilla, Colombia 2013 to 2018 EDUCATION Ph.D. in Systems Engineering & Computer Science, cum laude Thesis Topic: Privacy Protection in Location Based Services. Examined emergent location based services to provide privacy alternatives for geodata management. Surveyed and developed privacy techniques while focusing on ensuring data usability for geospatial analysis.

2005 to 2010

BS.c. Systems Engineering & Computer Science Graduated as Distinguished Student