

H. Antonio Vazquez Brust

Urban Data Scientist

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EDUCATION

Northeastern University (Boston, USA) — *Master of Science in Urban Informatics*

GRADUATED: MAY 2017

University of Buenos Aires (Argentina) — *Urban and Regional Planning Degree*

GRADUATED: APRIL 2015

Universidad Argentina de la Empresa (Argentina) — *BCs Computer Science*

GRADUATED: DECEMBER 2005

RECENT TEACHING EXPERIENCE

Torcuato Di Tella University - School of Government

Guest Professor

MSc in Urban Economics: Big Data for Cities I, Big Data for Cities II

MSc in Public Policy: Data Science Workshop

Facultad Latinoamericana de Ciencias Sociales

Academic Coordinator

Big Data & Territorial Intelligence Graduate Program

Professor

Big Data & TI Program: Geo Data Science

Universidad de Buenos Aires - Facultad de Arquitectura, Diseño y Urbanismo

Professor

Professional Development Course: Big Data for Urbanism

RECENT PROFESSIONAL EXPERIENCE

Bunge & Born Foundation— *Research Fellow*

APRIL 2018 - PRESENT

Senior researcher studying the spatial diffusion patterns of infectious

SKILLS

Data Science

- Advanced analytical programming
- Big Data processing
- Statistical modeling
- Spatial analysis
- Code-based reproducible research

Urbanism and planning

- Experienced researcher on urban phenomena
- Data driven policy analysis and impact evaluation
- Strategic planning

Communication

- Information visualisation and design
- Advanced presentation: automated reports, interactive visualisations
- Online and concurrent collaboration: managing shared document and code repositories

AWARDS

2017. Barry Bluestone “Think and Do” award, given to the capstone project that embodies Northeastern University School of Public Policy & Urban Affairs’ ideal of timely, evidence-based, policy-focused research. My capstone team received the award for outstanding work with the

diseases in Argentina, analyzing and combining diverse large scale data layers (Census records, cell phone records, human settlement patterns and road network analysis) to identify critical areas and prioritize resource allocation for health campaigns.

Inter-American Development Bank — Consultant

FEBRUARY 2019 - PRESENT

Developing data visualisation, spatial analysis and statistical modeling tools for data driven policy evaluation projects.

Argentina National Government — Consultant

SEPTEMBER 2017 - PRESENT

Advising on the development of a system for the extraction, analysis and visualisation of nation-wide data produced by the nation's Urban Infrastructure Agency; developing techniques to gauge progress and measure the effect of federal urbanization programs.

CIPPEC - Cities Program — Consultant

JULY 2017 - JANUARY 2018

Researching the convergence of Smart City technologies and strategic planning, in the context of Argentine municipalities. Developing data analysis and visualisation of complex issues in the urban agenda, designed for a general audience.

The American City Coalition (Boston, USA) — Data Science Fellow

AUGUST 2016 - MAY 2017

Gathering, analysing and visualising large data repositories to evaluate public policies, and detect opportunities for improvement. Applying spatial analysis to research the effect of public housing and local development programs.

Boston Area Research Initiative (Boston, USA) — Researcher

JANUARY 2016 - MAY 2017

Applying Big Data techniques to identify gentrification indicators, track them across time, and evaluate their implications for socioeconomic displacement in urban environments. Developing new statistical indices, visualisations and online maps designed to inform policymakers.

IBM Argentina — Information Technology Architect

JULY 2004 - AUGUST 2013

Designing and deploying technical solutions for international outsourcing projects involving large scale data processing.

Lincoln Institute of Land Policy.

2016. Boston Area Research Initiative Seed Grant, awarded by Harvard University's Rappaport Institute for my "Tracking gentrification in Boston through administrative data and social media" research project.

2014. Argentine Presidential Fellowship in Science and Technology. Funded by the Argentine President's Cabinet and the U.S. Embassy of Buenos Aires. Administered by the Argentine Fulbright Commission.

LANGUAGES

English: Fluent, written & oral.

Spanish: Native

PUBLICATIONS

Detecting Areas of Potential High Prevalence of Chagas in Argentina

Vazquez Brust, Antonio, et al. Companion Proceedings of The 2019 World Wide Web Conference. ACM, 2019.

Socio-spatial organisation of the Greater Buenos Aires Urban Region

Chapter in "Diffuse Regional Urbanisation Dynamics". L. Ainstein, R. Perez and A. Vazquez Brust. Buenos Aires: EUDEBA, 2017

The physical footprint of the digital economy and its impact on territorial organisation

Peer-reviewed journal paper. AREA – Agenda de Reflexión en Arquitectura, Diseño y Urbanismo, 2015