

**Diego E. Correa-Barahona.**

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**Phone:** +1-201-341-6295 **Email:** dcorreab@nyu.edu**LinkedIn:** [www.linkedin.com/in/dcorreab](http://www.linkedin.com/in/dcorreab)**website:** <https://dcorreab.wixsite.com/dcorreab-nocoe>**EDUCATION**

- New York University (NYU). Tandon School of Engineering. Doctoral Candidate, Transportation Planning and Engineering. Department of Civil and Urban Engineering. Brooklyn, NY [Expected: 2019]
- Massachusetts Institute of Technology (MIT). Modeling and Simulation of Transportation Networks Course. Cambridge, MA [Summer-2017]
- Rutgers, the State University of New Jersey. MCRS, Master of City and Regional Studies. Edward J. Bloustein School of Planning and Public Policy. GPA: 3.87/4.00. New Brunswick, NJ [2014 – 2016]
- Pontificia Universidad Católica de Chile on Coursera. Análisis de Sistemas de Transporte. Online, Chile [2015]
- Rutgers, the State University of New Jersey. MS, Master of Science. Civil and Environmental Engineering (Transportation). GPA: 3.85/4.00 New Brunswick, NJ [2012 – 2014]
- Rutgers, the State University of New Jersey. Certificate, Transportation Studies. Edward J. Bloustein School of Planning and Public Policy. New Brunswick, NJ [2012 – 2014]
- Pontifical Catholic University of Ecuador (PUCE). MEng, Master of Engineering. Transportation Engineering. GPA: 3.80/4.00. Quito, Ecuador [2009 – 2012]
- Catholic University of Santiago de Guayaquil. Advanced Degree in Highway Conservation and Construction Project. GPA: 4.00/4.00. Guayaquil, Ecuador [2010 – 2012]
- Pontifical Catholic University of Ecuador (PUCE). Advanced Degree in Transportation Engineering. GPA: 3.80/4.00. Quito, Ecuador [2009 – 2010]
- University of Cuenca. Advanced Degree in Water Systems and Environmental Health. GPA: 4.00/4.00. Cuenca, Ecuador [2009 – 2010]
- University of Cuenca. BS, Bachelor of Science in Civil Engineering. GPA: 3.61/4.00 Cuenca, Ecuador [1998 – 2004]
- Polytechnic Institute José Antonio Echeverría. Certificate, Structures and Technology of Construction La Habana, Cuba. [2004]

**HONORS / AWARDS**

- New York University - SOE Scholarship NYC, NY [2017 & 2018]
- The Honorific distinction “Dr. José Peralta”. The maximum distinction awarded by the city of Cañar. Cañar, Ecuador [2018]
- Student Leader Award “Interpersonal Leadership Development of the Year”. NYC, NY [2018]
- Louis J. Pignataro Memorial Transportation Engineering Education, Institute of Transportation Engineers ITE Metropolitan Section NY&NJ. NYC, NY [2018]
- Emerging Leaders in Transportation, Rudin Center for Transportation Policy and Management NYU. NYC, NY [2017]
- Ecuadorian Scholars Found ESF -Fellow Recipient, Organization Juventud Ecuatoriana. NYC, NY [2017]
- Institute of Transportation Engineers NYU student Chapter, President. Brooklyn, NY [2017 - 2018]
- Massachusetts Institute of Technology (MIT) Summer Course Scholarship for Modeling and Simulation of Transportation Networks. Cambridge, MA [Summer-2017]
- The Intelligent Transportation Society of New Jersey (ITS-NJ). Outstanding Graduate Student Award “For academic achievements in support of Intelligent Transportation Systems”. New Brunswick NJ, [2016]
- The National Secretary of Science Technology & Innovation of Ecuador (SENESCYT). Award Scholarship. Program Universities of Excellence 2012 to study Ph.D. Out of Ecuador, amount: \$242,000.00. Quito, Ecuador [2012]
- Catholic University of Santiago de Guayaquil. Valedictorian in the Highway Conservation and Construction Project program. Guayaquil, Ecuador. [2012]
- The National Secretary of Science Technology & Innovation of Ecuador (SENESCYT). Award Scholarship to study MS Out of Ecuador, amount: \$110,000.00. Quito, Ecuador [2011]
- Chamber of Construction of Canar, President. Cañar, Ecuador [2010 – 2012]
- ITS Jose Peralta. Best student and valedictorian. Cañar, Ecuador [1992 – 1998]

## RESEARCH EXPERIENCE

- Research Assistant at New York University, City Safety and Mobility Analytics for Resilient Transportation system (CitySMART) Lab. [2014 – 2017]
- Research Assistant at New York University, Behavioral Urban Informatics, Logistics, & Transport Laboratory (BUILT) Lab. [2016 – 2017]
- Research Assistant at Rutgers University, Rutgers Intelligent Transportation Systems (RITS) Lab. [2012 – 2014]

## TEACHING / MENTORING EXPERIENCE

- Mentor at the NYU's Applied Research Innovations in Science and Engineering (ARISE) program 2017. New York, NY [Summer-2017]
- Aimsun microsimulation demonstration. NYU Tandon School of Engineering. New York, NY [Apr.-2017]
- Mentor. NYU Tandon School of Engineering, 2016 Undergraduate Summer Research Program. New York, NY [Summer-2016]
- Associate Professor. School of Civil Engineering and Construction Management. In charge of class presentations, exercises and exams for the classes. Responsible for grading all the activities and for planning the workshops and field trips of the following courses: ICG:0605 Geometric design of roads, Geographic Information System (GIS), Traffic Engineering, Highway design, Transportation Engineering. Cuenca, Ecuador [2010- 2011]
- Teaching Assistant. University of Cuenca. In charge of class presentations, exercises and for planning the workshops for Statistics for Civil Engineering. Cuenca, Ecuador [2002 – 2003]

## PANELS / CONFERENCES / PRESENTATIONS / WORKSHOPS

- XXV Congress of the College of Civil Engineers of Ecuador CICE, at the Estancia Rosario, Cuenca. Cuenca, Ecuador [Oct. - 2018]
- XX Pan-American Conference on Traffic, Transportation Engineering and Logistics -PANAM 2018, at The Hotel Intercontinental Medellín. Medellín, Colombia [Sep. - 2018]
- The ASCE 2018 International Conference on Transportation & Development., 2018, at The Wyndham Grand Pittsburgh Downtown Hotel. Pittsburg, PA [Jul. - 2018]
- NJ TransAction Conference 2018, at The Tropicana Hotel, Casino & Conference Center. Atlantic City, NJ [Apr. - 2018]
- ITS New Jersey Annual Meeting, 2017, at The Heldrich Hotel & Conference Center. New Brunswick, NJ [Sep. - 2017]
- The 21st Conference of the International Federation of Operational Research Societies IFORS. Quebec City, Canada. [Jul. - 2017]
- Institute of Transportation Engineers, Northeastern District Research Symposium. New York, NY [Mar. - 2017]
- The NYCDOT Smart Traffic Data Analytics Symposium, at NYU Tandon School of Engineering. New York, NY [Jan. - 2017]
- The Transportation Research Board (TRB) 96th Annual Meeting, at the Walter E. Washington Convention Center. Washington, D.C. [Jan. - 2017]
- Annual Transportation Technology Summit: Innovative Mobility Solutions, The University Transportation Research Center (UTRC) at the New York Institute of Technology (NYIT). New York, NY [Nov. - 2016]
- ITS New Jersey Annual Meeting 2016, at The Heldrich Hotel & Conference Center. New Brunswick, NJ [Oct. - 2016]
- Highway Conservation & Construction Project Conference, at the Catholic University of Santiago de Guayaquil. Guayaquil, Ecuador [Aug. - 2012]
- International Seminar on Mobility in the Metropolitan District of Quito and the Chilean experience in mass transit at the Chamber of Construction of Quito. Quito, Ecuador [Oct. - 2010]

## INDUSTRY/PROFESSIONAL EXPERIENCE (Limited Selection)

- Intern at Aimsun Inc. New York City, NY [Aug. 2017 - Present]
- REIVAX Contracting Co.: Collaboration in budgets for project proposals related to civil engineering projects. Newark, NJ [Summer-2013]
- Co-Owner-CEO of Correa & Correa Ingenieros: Consultant Engineer, Project manager. Our main lines of business include: Road construction, heavy & highway, underground utilities, contractors, site development. Cuenca, Ecuador [2004 – 2012]

## PUBLICATIONS

### Papers:

- An Spatio-Temporal Analysis of UBER Growth vs Green Cabs in Outer Boroughs in New York City. [2017]
- Parameter-Grafted Spatial Dynamic Matching Equilibrium Model of New York City Uber Market. [2017]

- Exploring the Taxi and Uber Demands in New York City: An Empirical Analysis and Spatial Modeling. [2016]

#### Articles:

- Análisis de Sistemas de Transporte. Official Magazine of the CICA- Ecuador. [2017]
- Ingeniería Ciudad y Transporte. Official Magazine of the CICA- Ecuador. [2014]
- Engineering, City and Transportation. Official Magazine of the Society of Architects and Civil Engineers of Canar. [2012]
- Technical communication for better professional performance. Official Magazine of the Camara Construcción de Canar. [2012]

#### Monographs:

- *Traffic Study & Modeling Using Sidra Intersection Software*. Rutgers University. New Brunswick, New Jersey. [2014]
- *Proposed Methodology to Evaluate Signalized Intersections*. The Pontifical Catholic University of Ecuador. Quito, Ecuador. [2012]
- *Environmental Assessment and Closing of Garbage Dump of Canar City*. University of Cuenca. Cuenca, Ecuador. [2009]
- *Cross Distribution in Boards of Concrete Bridges Using the Guyon Massonnet Bares and the AASHTO*. Polytechnic Institute José Antonio Echeverría, La Habana, Cuba, and The University of Cuenca. Cuenca, Ecuador. [2004]

### VOLUNTEER & COMMUNITY ENGAGEMENT

- Institute of Transportation Engineers, Northeastern District Traffic Bowl and Symposium. Conference Chair. Brooklyn, NY [Mar. - 2017]
- The National Shared Mobility Summit 2016 Volunteer. Chicago, IL, [Oct.- 2016]
- The American Planning Association APA-NJ New Jersey Planning Conference, New Brunswick, NJ [2015 & 2016]
- The New Brunswick Ciclovía, Volunteer. New Brunswick, NJ [Oct. - 2014]
- Society of Architects and Civil Engineers. Conferences Coordinator Cañar, Ecuador, [2010 – 2012]
- International Red Cross Volunteer. Cañar, Ecuador [1996 – 1999]
- International Red Cross. Member of the Board of Directors, and Human Relations Associate Cañar, Ecuador [1999 – 2000]

### ORGANIZATIONS

#### U.S.A:

- American Society of Civil Engineers (ASCE).
- Institute of Transportation Engineers (ITE).
- American Planning Association (APA).
- Intelligent Transportation Society of New Jersey (ITSNJ).
- The Society of Hispanic Professional Engineers (SHPE).

#### ECUADOR:

- Society of Civil Engineers of Ecuador. Professional License: N°.01-1347.
- Chamber of Construction of Canar, N°. CCC 03-018.

### SOFTWARE EXPERIENCE

- Traffic Analysis:
- Programming languages/statistics packages:
- Other Tools:

Aimsun, HCS+, Sydra Intersection.  
R/R Studio, SPSS, MATLAB, Python  
ArcGIS, AutoCAD, Microsoft Office Suite

### KEY COURSES

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|---|---|---|
| - Systems of Transportation Planning.   | - Transportation Planning.                  | - Traffic Operations and Control.         |
| - Public Transportation.                | - Freight Transportation Systems.           | - Management of urban Traffic Congestion. |
| - Application of Transportation Models. | - Public Transportation Planning.           | - Transit Maintenance and Operations.     |
| - Advanced Traffic Models.              | - Financial Assessment of Transp. Projects. | - Methods of Planning Analysis.           |
| - Traffic Engineering.                  | - Regulation & Risk Transp. Projects.       | - Urban Public Transport.                 |
| - Ports & Airports Management.          | - Walking & Cycling for Sustainable Cities. | - Urban Spatial Analytics                 |
| - Statistic & Operational Research.     | - Traffic Operations.                       | - Urban Logistics I                       |
| - Adv. Const. Eng. Mgmt. I.             | - International Transport Polices.          |   |
| - Geographic Information Systems        | - Urban Decision Models.                    |   |
| - Public Transit Systems.               |   |   |
| - Applied Data Science.                 |   |   |

### LANGUAGES

- Spanish: Native
- English: Proficient in writing, reading and speaking