

# Luis Guillermo Natera Orozco

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## EDUCATION

- Ph.D. Network Science, Central European University, Budapest, 2020 (expected)  
Dissertation: *Multilayer Urban Networks*  
Advisor: Gerardo Iñiguez  
Co-Advisor: Michael Szell
- M.S. Communication of Science and Culture, ITESO, Tlaquepaque. Mexico, 2015  
Dissertation: *La construcción de comunidades en red sobre conocimiento urbano en el marco del crecimiento urbano: Los blogs de espacio público*  
Advisor: Eduardo Quijano  
Committee: Rossana Reguillo, Francisco Morfín
- B.Arch. Architecture, ITESO, Tlaquepaque. Mexico, 2010

## ACADEMIC AFFILIATIONS

- 2016–17 Executive Coordinator Signa\_Lab, Department of Sociocultural Studies, ITESO, Tlaquepaque. Mexico
- 2015 Visiting Student, Center for Civic Media, Media Lab, Massachusetts Institute of Technology, Cambridge, MA. USA

## RESEARCH AND TEACHING INTERESTS

Network science  
Urban planning and mobility  
Big data for social good  
Data science and data visualization

## PUBLICATIONS

### Peer-Reviewed Book Chapters

- 2018 Natera Orozco, L G., Reguillo, R. “Comunicación y cambio social: participación política e internet en Jalisco” *Enciclopedia Jalisciense de la Comunicación.*, edited by Orozco, G., Reguillo, R. Jalisco, Mexico: Universidad de Guadalajara.

- 2018 Natera Orozco, L G. "Un cambio de la comunicación gubernamental y política. De los medios de comunicación a las redes sociales." *Informe Anual Q Medios 2018*, edited by Bernal, G. Jalisco, Mexico: ITESO.

## Reviews and Other Articles

- 2016 Natera Orozco, L G. (as Signa\_Lab) "Battle of the hashtags: Mapping the online conversation surrounding Mexico's gas price" *Global Voices*.

## Proceedings, Reports, and Working Papers

- 2014 Natera Orozco, L G. "Comunicación, ciudad e internet: flujos de información urbana en entornos digitales" VI Seminario Internacional de Investigación en Urbanismo. Bogota, Colombia.

## Posters

- 2018 Natera Orozco, L G. "Budapest. Multilayer urban network" State of the Map. Milan, Italy.  
2017 Natera Orozco, L G., Ábrego, V. "The evolution of twitter during the US elections" Data Stories. Budapest, Hungary.

## INVITED TALKS

- 2019 "Multiplex urban fingerprints for bicycle network planning" ANET-Talks, ANET Lab, Hungarian Academy of Science. Budapest, Hungary.  
2018 "Ciencia de redes para la ciudad" Signa\_Lab, ITESO. Tlaquepaque, Mexico.  
2015 "Código, Datos Abiertos y Ciudad" Encuentro de Urbanismo Alternativo, Centro Cultural de España en México. Mexico City, Mexico.  
2015 "Participación ciudadana, calle y nuevas tecnologías" II Simposio de ciudades y territorios incluyentes "Derecho a la Ciudad", Universidad Autónoma de Yucatán. Merida, Mexico.

## CONFERENCE ACTIVITY

### Conference Presentations

Presenting author *italicized*, if other.

- 2019 Natera Orozco, L. G., Battiston, F., Iñiguez González, G., and Szell, M. "Multiplex urban fingerprints for bicycle infrastructure planning" 2019 NetSci. Burlington, Vermont. May 27-31.  
2018 Natera Orozco, L G. Szell, M. "Characterizing cities from their multiplex infrastructure patterns" SICC Workshop ComplexCity@PoliTo. Turin, Italy.  
2013 Natera Orozco, L G. "Quiosco Libre, reading network in the public space" Future of Places. Stockholm, Sweden.

## **FELLOWSHIPS, GRANTS, AND AWARDS**

- 2019 Ph.D. conference travel grant. CEU Budapest Foundation
- 2018, 19 Travel grant. Department of Network and Data Science, Central European University
- 2015 Academic Stay at MIT. Mexican National Council of Science and Technology
- 2013 Master Studies Grant. Mexican National Council of Science and Technology

## **TEACHING EXPERIENCE**

### **ITESO**

- 2019 Network Science (Summer 2019) Invited lecturer, co-taught with Diego Arredondo (ITESO)
- 2017 Network Science (Summer 2017) Co-taught with Emma Towlson (Northeastern University), Sean P. Cornelius (Northeastern University), and Ricardo Zavala (ITESO).
- 2015–17 Communication, Culture and Society (Spring 2016, 2017)
- 2015–16 Social Systems Theory (Fall 2015, 2016)

## **RESEARCH EXPERIENCE**

- 2015–17 Researcher, Anillo Primavera.  
Principal Investigator: Sandra Valdes.
- 2016 Researcher, Online harassment of journalists and activists in Mexico, Jigsaw (formerly Google Ideas) and Global Voices.  
Principal Investigator: Ellery Biddle.
- 2012 Researcher, Public Transportation in Guadalajara.  
Principal Investigator: Mario Silva.

## **ACADEMIC VISITS**

- 2015 Center for Civic Media, MIT Media Lab, Boston, USA, Jan - Jun

## **SERVICE**

### **Service to Department**

Co-organizer Data Stories visualization exhibition, Central European University, DNDS, 2018-19

## **PROFESSIONAL AFFILIATIONS**

Network Science Society  
Python Software Foundation  
SICC Italian Society for Chaos and Complexity

## PROFESSIONAL EXPERIENCE

- 2019      Maven7US Urban Data Scientist. Budapest, Hungary.
- 2015–17   Mesura, Networks and Data Specialist. Guadalajara, Mexico.
- 2014      Socialinks, Networks Consultant. Guadalajara, Mexico.
- 2014      Institute for Mobility and Transportation of the State of Jalisco, Mobility Analyst. Zapopan, Mexico.

## SKILLS AND METHODS

### Statistical and Computational Methods

Network science methods

Programming, data wrangling and visualization: Python

Web: basic HTML/Javascript

Network visualization: Gephi, Cytoscape

Version control: Git

Other:  $\text{\LaTeX}$ , Adobe CS, CAD

### Languages

Spanish    Native

English    Professional proficiency

Updated July 2019