

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

Journal Article Preprints

- 2019 Natera, L., Battiston, F., Iñiguez, G., Szell, M. “Data-driven strategies for optimal bicycle network growth” *ArXiv ID: 1907.07080*.

Peer-Reviewed Book Chapters

- 2018 Natera, L., Reguillo, R. "Comunicación y cambio social: participación política e internet en Jalisco" *Enciclopedia Jaliscience de la Comunicación.*, edited by Orozco, G., Reguillo, R. Jalisco, Mexico: Universidad de Guadalajara.
- 2018 Natera, L. "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, L. (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, L. "Comunicación, ciudad e internet: flujos de información urbana en entornos digitales" VI Seminario Internacional de Investigación en Urbanismo. Bogota, Colombia.

INVITED TALKS

- 2019 "Data-driven strategies for optimal bicycle network growth" Mobile and Social Computing Lab, Fondazione Bruno Kessler. Trento, Italy.
- 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 Cycling Research Board Meeting. Delft, Netherlands. October 31-1 November.
- 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, L. Szell, M. "Characterizing cities from their multiplex infrastructure patterns" SICC Workshop ComplexCity@PoliTo. Turin, Italy.

- 2013 Natera, L. “Quiosco Libre, reading network in the public space” Future of Places. Stockholm, Sweden.

Posters

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

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

Journal Peer Review

Scientific Data

Service to Department

Ph.D. program representative, Central European University, DNDS, 2019-20

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: \LaTeX , Adobe CS, CAD

Languages

Spanish Native

English Professional proficiency

Updated October 2019