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 Seminatio Internacional de Investigación en Urbanismo. Bogota, Colombia.

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.

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 infraestructure 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.

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: LaTeX, Adobe CS, CAD

Languages

Spanish   Native

English   Professional proficiency