

Research Workshop on
Digital Demography in the Era of Big Data

Organized by the

IUSSP Digital Demography Panel,
LONGPOP H2020 Marie Skłodowska-Curie ITN project,
Max Planck Institute for Demographic Research (MPIDR),
DisCont (ERC Advanced Grant, Bocconi University),
The Institute of Economy, Geography and Demography (Spanish National
Research Council - CSIC)
and the Institute of Statistics and Cartography of Andalusia (IECA)

Scientific Committee: Diego Ramiro (CSIC), Elena Manzanera (IECA), Emilio Zagheni (MPIDR) and Francesco Billari (Bocconi University).

Organizing Committee: Diego Ramiro (CSIC), Elena Manzanera (IECA), Emilio Zagheni (MPIDR), Francesco Billari (Bocconi University), Ángela Martínez-Carrasco (CSIC) and Fernando Martínez Escriche (IECA).

Location: Instituto de Estadística y Cartografía de Andalucía
Pabellón Nueva Zelanda
C/Leonardo Da Vinci, 21
Isla de la Cartuja
41092 Sevilla

Dates: 6-7 June 2019. From 9.00 to 18.00.
Pre-meeting on Wednesday 5th of June. 12.00 to 18.00.

PROGRAMME

Pre-meeting on Wednesday 5th of June:

The workshop will be preceded by a pre-meeting on 5th of June, sponsored by the BBVA Foundation, which will include:

11.30- 18.00. Registration.

12.00- 13.30. Demography Today Lecture by John Palmer

(Pompeu Fabra University, Spain)

Digital Demography, Human-Mosquito Interactions, and the Socio-Ecological Context of Vector-Borne Disease.

15.00-18.00 IUSSP-Demography Today Training Workshop by Emilio Zagheni and Sofía Gil (MPIDR).

Assessing and making sense of digital trace data for demographic research

20.30 Dinner in Restaurante El Cabildo. Plaza del Cabildo, s/n. Sevilla.

Thursday 6th of June 2019

8.45-9.15. Registration.

9.15-9.30. Opening by Manuel Alejandro Hidalgo Pérez, Secretary General of Economy, Government of Andalusia, Giampaolo Lanzieri (Eurostat) and Elena Manzanera, Director of the Institute of Statistics and Cartography of Andalusia (IECA).

9.30- 9.45. Welcome and Introduction by the Scientific Committee.

9.45-11.15. Session 1. Digital Demography

Chair: Juan del Ojo (IECA)

- Samin Aref and Emilio Zagheni (Max Planck Institute for Demographic Research, Germany), and Jevin West (University of Washington)
Analyzing international mobility of researchers through affiliation addresses in Web of Science publications.
- Beatriz Sofia Gil Clavel and Emilio Zagheni (Max Planck Institute for Demographic Research, Germany)
Demographic Differentials in Facebook Usage Around the World.

11.15-11.45. Refreshment break

11.45-13.15. Session 2: Migration and methods

Chair: Emilio Zagheni (MPIDR)

- Dilek Yildiz (Wittgenstein Centre for Demography and Global Human Capital, Austria), Arkadiusz Wisniowski (University of Manchester, UK), Guy Abel (Asian Demographic Research Institute, Shanghai University, China), Cloe Gendronneau (RAND Europe) and Stijn Hoorens (RAND Europe)

Probabilistic methods for combining traditional and social media bilateral migration data.

- Asli Ebru Sanliturk (Bocconi University, Italy)
Search for a New Home: Use of Google Trends Data to Capture Migrant Mobility.

13.15-14.30. Lunch

14.30-16.00. Session 3. Migration: case studies

Chair: Diego Ramiro Fariñas (IEGD-CSIC.)

- Juan Galeano (National Center of Competence in Research, Switzerland) and Andreu Domingo (Centre d'Estudis Demogràfics, Spain)
Can Google help us to predict migratory flows? Latin American emigration to Spain, a prospective exercise for Venezuela, Colombia and Argentina.
- Nachatter Singh (Universitat Autònoma de Barcelona, Spain) and Andreu Domingo (CED, Spain)
The geography of highly qualified migrants through Facebook: A case study of India and Sub-Saharan diaspora.

16.00-16.30. Refreshment break

16.30-18.00. Session 4. Poverty and Energy

Chair: Andreu Domingo (CED)

- Jordi Ripoll and José Cervera (DevStat Servicios de Consultoría Estadística, Spain)
Modelling the relationship between online purchases and poverty lines.
- Vasileios Giagloglou (TELNET)
Analysis through Elastic Search of longitudinal Databases with IDS format and applicability to energy efficiency analysis techniques

18.00. End of the session.

18.00. Bus to city centre, tour and dinner at 20.30.

Friday 7th of June 2019

9.00-10.30. Session 5. Twitter

Chair: Francesco Billari (Bocconi University)

- Dagnon Sourou Bruno Eric Koba (Printemps Université de Versailles-St Quentin, France), Donita Nshani TATA (The University of Yaounde 1, Cameroon) and Marc Gérémie DJOHOSSOU (ENSAE, Paristech, France)
Vaccine controversies on internet and activist networks: interactions between vaccine advocates and detractors on Twitter.
- Guangqing Chi and Junjun Yin (Pennsylvania State University, USA)
An Evaluation of Geo-located Twitter Data for Measuring Migration.

10.30-11.00. Refreshment break

11.00-12.45. Session 6: Mobile phones

Chair: Diego Ramiro Fariñas (CSIC)

- Valentina Rotondi (Bocconi University, Italy), Ridhi Kashyap (University of Oxford, UK), Luca M. Pesando (University of Pennsylvania, USA), Simone Spinelli and Francesco Billari (Bocconi University)
Leveraging Mobile Phones to Attain Sustainable Development.
- Romain Avouac (ENSAE ParisTech, France), Benjamin Sakarovitch and François Sémécurbe (Insee), and Zbigniew Smoreda (Orange Labs, SENSE)
A bayesian approach to improve the estimation of population using mobile phone data.
- Fabio Ricciato and Giampaolo Lanzieri (European Commission – EUROSTAT)
Towards a methodological framework for estimating present population density from mobile network operator data.

12.45-14.00. Invited presentations.

Chair: Diego Ramiro Fariñas (CSIC)

- Antonio Argueso (INE)
The use of Big Data within the 2021 Census of Spain.
- Alvaro Ortiz (Chief Economist Turkey, China and BigData, BBVA Research)
Using BigData at BBVA Research

14.00-15.00. Lunch

15.00-16.30. Session 7. Twitter

Chair: Juan del Ojo (IECA)

- Dariya Ordanovich (ESRI Spain-UCM-CSIC), Diego Ramiro Fariñas (Spanish National Research Council - CSIC, Spain), Francesco C. Billari (Bocconi University, Italy), Antonia Tugores (Instituto de Física Interdisciplinar y Sistemas Complejos (CSIC-UIB), Spain), Francisco Viciano (IECA, Spain) and José J. Ramasco (IFISC (CSIC-UIB), Spain)
What Were You Thinking Nine Months Ago? Using Twitter for Fertility Nowcasting Over Time and Space.
- José J. Ramasco, Antonia Tugores and Mattia Mazzoli (IFISC (CSIC-UIB), Spain), and Boris Diechtiareff (United Nations Children's Fund -UNICEF)
Tracking migration flows with geolocated Twitter data.

16.30-17.00. General discussion and final considerations Coordinated by the Scientific Committee.