

CURRENT  
POSITIONS

**Imperial College London**, United Kingdom  
 Lecturer (eq. Assistant Professor), *Department of Computing and Data Science Institute*, 2017-now  
 Head of the Computational Privacy Group

**Massachusetts Institute of Technology**, Cambridge, MA  
 Research Affiliate, *Media Lab*, 2017-Now  
 Research Scientist, *Media Lab*, 2016-2017  
 Post-doctoral researcher, *Media Lab*, 2015-2016  
 Supervision: Iyad Rahwan

**Harvard University**, Cambridge, MA  
 Post-doctoral researcher, *Harvard IQSS and Computer Science*, 2015-2016  
 Supervision: Latanya Sweeney, Gary King

EDUCATION

**Massachusetts Institute of Technology**, Cambridge, MA  
 Ph.D., *Media Lab*, 2010-2015  
 Thesis: “Computational Privacy: Towards Privacy-Conscientious Uses of Metadata”  
 Committee: Alex (Sandy) Pentland (Advisor), Gary King, and Alessandro Acquisti

**Université catholique de Louvain**, Belgium  
 M.Sc. in Applied Mathematics, 2007-2009  
 Major in Discrete mathematics and Computer Science  
 Thesis: “Stability in society: Parameters for the persistence of social network”  
 Advisors: Vincent D. Blondel and Nathan Eagle  
 Visiting researcher at the Santa Fe Institute, NM

**Katholieke Universiteit Leuven**, Belgium  
 M.Sc. Mathematical Engineering, 2007-2009

**École Centrale Paris**, France  
 Centralien (M.Sc.), 2005-2007  
 Double degree exchange program TIME (Top Industrial Managers for Europe)

**Université catholique de Louvain**, Louvain-La-Neuve, Belgium  
 B.Sc. in engineering, 2003-2006

PUBLICATIONS

Total number of citations: 1800+, H-index: 11  
<http://scholar.google.com/citations?user=LVJtdoEAAAAAJhl=en>

BOOK CHAPTERS

Toole J. L., de Montjoye Y. A., González M. C., Pentland A. S., Modeling and Understanding Intrinsic Characteristics of Human Mobility. *Social Phenomena: From Data to Models* Springer (2015)

JOURNALS

- [9] Jahani, E., Sundsøy, P., Bjelland, J., Bengtsson, L. and de Montjoye, Y.A., 2017. Improving official statistics in emerging markets using machine learning and mobile phone data. **EPJ Data Science**, 6(1), p.3.
- [8] Steele, J.E., Sundsøy, P.R., Pezzulo, C., Alegana, V.A., Bird, T.J., Blumenstock, J., Bjelland, J., Engø-Monsen, K., de Montjoye, Y.A., Iqbal, A.M. and Hadiuzzaman, K.N., 2017. Mapping poverty using mobile phone and satellite data. **Journal of The Royal Society Interface**, 14(127), p.20160690.
- [7] de Montjoye Y.-A., Rocher L., Pentland A. bandicoot: an open-source Python toolbox to analyze mobile phone metadata. **Journal of Machine Learning Research**, 17, 1-5 (2016)
- [6] de Montjoye Y. A., Radaelli L., Singh V. K., Pentland A., Unique in the Shopping Mall: On the Re-identifiability of Credit Card Metadata. **Science**. 347 (6221), 536-539  
*Notes: Cover of Science Jan 2015, IF: 31.5*
- [5] de Montjoye Y. A., Stopczynski A., Shmueli E., Pentland A., Lehmann S., The Strength of the Strongest Ties in Collaborative Problem Solving. **Nature SRep.** (2014)
- [4] de Montjoye Y. A., Shmueli E., Wang S., Pentland A., openPDS: Protecting the Privacy of Metadata through SafeAnswers. **PLoS ONE.** (2014)
- [3] Taquet M., Quoidbach J., de Montjoye Y. A., Desseilles M. Mapping Collective Emotions to Make Sense of Collective Behavior. **Behavioral and Brain Sciences**, 37, 1-2. (2014)
- [2] de Montjoye Y.-A., Hidalgo C. A., Verleysen M., Blondel V. D. Unique in the Crowd: The privacy bounds of human mobility. **Nature S.Rep.** 3 (2013)  
*Notes: Downloaded more than 265,000 times, cited 450+ times, Almetric's top 15 research paper that caught the public imagination in 2013.*
- [1] Good B., de Montjoye Y.-A., and Clauset A., The performance of modularity maximization in practical contexts. **Physical Review E** 81, 046106 (2010)

CONFERENCES  
AND WORKSHOPS

- [7] Felbo B., Sundsoy P., Pentland A., Lehmann S., de Montjoye Y.-A., Modeling the Temporal Nature of Human Behavior for Demographics Prediction, *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery (ECML-PKDD)* (2017)
- [6] Mulders D., de Bodt C., Bjelland J., Pentland A.S., Verleysen M., de Montjoye Y.-A., Improving Individual Predictions using Social Networks Assortativity, *International Workshop on Self-Organizing Maps and Learning Vector Quantization, Clustering and Data Visualization (WSOM+)* (2017)
- [5] Sundsoy P., Bjelland J., Iqbal A. M., Pentland A., de Montjoye Y.-A., Big Data-Driven Marketing: How Machine Learning Outperforms Marketers' Gut-Feeling. *SBP*, Washington, USA (2014)  
*Note: Published as Springer Lecture Notes in Computer Science*
- [4] de Montjoye Y.-A.\*, Quoidbach J.\*, Robic F.\*, Pentland A., Predicting people personality using novel mobile phone-based metrics. *SBP*, Washington, USA (2013)
- [3] de Montjoye Y.-A., Wang S., Pentland A., On the Trusted Use of Large-Scale Personal Data. *IEEE Data Engineering Bulletin*, 35 4 (2012).
- [2] de Montjoye Y.-A., Haria J., Cebrian M., Pentland A., The Need for Champions for Approximate Social Search. *IEEE SocialCom*, Cambridge, USA (2011).
- [1] Eagle N., de Montjoye Y.-A., and Bettencourt L. M. A., Community Computing: Comparisons between Rural and Urban Societies using Mobile Phone Data. *IEEE SocialCom*, Cambridge, USA (2009).

POLICY & OP-ED

- de Montjoye Y.-A.\*, Dermine T., Y a-t-il une place pour deux universités à Bruxelles?, *L'écho*, August 26, 2017
- de Cordes N\*, de Montjoye Y.-A.\*, Smoreda Z., OPAL: réconcilier innovation ouverte et sécurité de données, *Orange Letters* XX (2017)

Member of the expert committee writing, Privacy by design in big data: An overview of privacy enhancing technologies in the era of big data analytics. European Union Agency for Network and Information Security (ENISA) report, December 2015, ISBN 978-92-9204-160-1

de Montjoye Y.-A., Metadata and privacy: an unsolvable equation?. *Orange Letters* 52 (2015)

de Montjoye Y.-A., Kendall J., Kerry C. F., Enabling Humanitarian Use of Mobile Phone Data. *Issues in Technology Innovation* Brookings Center for Technology Innovation. (2014)

de Montjoye Y.-A., Les métadonnées, “Pour ou Contre?”. *Centralien* 634 (2014)

de Montjoye Y.-A., Hidalgo C. A., Pentland A., Il est temps de parler des métadonnées, *Le Monde*, June 27, 2013

Hidalgo C. A., de Montjoye Y.-A., Pentland A., Solution to NSA overreach - put people in charge of their own data, *The Christian Science Monitor*, June 11, 2013

#### OTHERS

de Montjoye Y. A., Smoreda Z., Trinquart R., Ziemlicki C., Blondel V. D., D4D-Senegal: The Second Mobile Phone Data for Development Challenge. *arXiv:1407.4885*. (2014)

#### AWARDS AND COMMITTEES

Member of the World Economic Forum network on AI, IoT and the Future of Trust, 2016

Member of the jury for the CNIL/INRIA award for research on privacy protection, 2016, 2017

Member of the OECD Advisory Group on Health Data Governance, 2015

Member of the IEEE Global Initiative for Ethical Considerations in Artificial Intelligence and Autonomous Systems, 2015-

Innovators under 35 for Belgium (TR35), 2015

Fellow of the ID<sup>3</sup> foundation for data-driven design, 2013-Now

Research Associate at Data-Pop Alliance, 2013-Now

MISTI Seed Fund, 2014

SBP13 travel grant (x3), 2014

Amplify Partners Fellowship, 2014

Amazon Graduate Research Symposium (declined), 2014

Geocrowd (EU) Associate partner, 2013

Member of the Altius Society, 2013

MIT-Imperial Global Fellow, 2013

MIT Harold Horowitz Award, 2012

Fellow of the B.A.E.F. foundation (Firmin van Brée Fellow), 2010

#### ORGANIZING COMMITTEE

**OECD** workshop on mobile technology-based services for global health and wellness

**D4D-Senegal:** The Mobile Phone Data for Development Challenge

**NetMob’14:** [Co-Chair] Conference on the Analysis of Mobile Phone Datasets and Networks

**SocialD’13:** [Co-Chair] A conversation on Social Dynamics at NetSci

**NetMob’13:** Conference on the Analysis of Mobile Phone Datasets and Networks

**NetMob’11:** Conference on the Analysis of Mobile Phone Datasets and Networks

#### PROGRAM COMMITTEE

**WWW’16, 18:** World Wide Web Conference

**AAAI’18:** AAAI Conference on Artificial Intelligence

**DTL Award Grants’17:** Data Transparency Lab Award Grants

**IC2S2’17:** International Conference on Computational Social Science

**CSCML'17:** International Symposium on Cyber Security Cryptography and Machine Learning  
**Data for Policy'16, 17:** Frontiers of Data Science for Government  
**Infer'16:** International Workshop on Inference & Privacy in a Hyperconnected World  
**IWPE'16, 17:** Workshop on Privacy Engineering  
**SBP(-BRiMS)'14, 15, 16, 17:** Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction  
**WSDM'15:** Conference on Web Search and Data Mining  
**PrInf'15:** Workshop on Privacy and Inference  
**Wearable-S&P'15:** Workshop on Wearable Security and Privacy  
**SocialCom'12, 13, 14, 15:** IEEE Conference on Social Computing  
**PriSecCSN'12, 13, 14** Symposium on Privacy and Security in Cloud and Social Networks  
**Telco'14:** Workshop for Telco Data-driven Innovations  
**WCPR' 14:** Workshop on Computational Personality Recognition (ACM Multimedia).  
**SocInfo'13:** Conference on Social Informatics  
**SPSN'11, 12:** Workshop on Security and Privacy in Social Networks  
**SocInfo'10, 11, 12:** Conference on Social Informatics  
**ICWSM'11:** Workshop on the Social Mobile Web

JOURNAL **ODBMS.org:** Operational Database Management Systems  
 EDITORIAL BOARD **Frontiers in Public Health and ICT:** Digital Health

SELECTED TALKS 09/2017 WISP at Université Pierre et Marie Curie (Keynote)  
 (ANR with the office of the Prime Minister and Defense Ministry)  
 07/2017 Estonia presidency of the EU, Digital single market conference on the free movement of data (Panel)  
 06/2017 CNRS - Pre-GDR on Security (Keynote)  
 06/2017 Vodafone Innovation Forum (Panel)  
 05/2017 O'Reilly Strata (Speaker)  
 05/2017 Advances in Data Science, Manchester DSI (Invited Speaker)  
 03/2017 Big Data and the Law (Speaker)  
 03/2017 Solvay Business School (Speaker)  
 02/2017 4th Disaster Management Workshop at University of Southampton (Speaker)  
 02/2017 Commission Superieure du numérique et des postes (Panel at the National Assembly)  
 12/2016 Open Government Partnership Conference (Panel)  
 11/2016 Data Transparency for Social Good, DTL (Speaker)  
 10/2016 OECD Expert Consultation (Speaker)  
 10/2016 PAPIs: 3rd International Conference on Predictive Applications and APIs (Keynote)  
 06/2016 Lunchtime seminar, EDPS (Privacy and data anonymization)  
 06/2016 9th Annual Privacy Law Scholars Conference (Participant)  
 05/2016 Discovering and Predicting Consumer Behavior using Metadata, EMA2016 (Plenary Speaker)  
 04/2016 Vos données au coeur de la datascience, CASD (Speaker)  
 04/2016 Data Privacy, Chief Data Officer Alliance (Speaker)  
 03/2016 Disrupting cities through technology, Wilton Park (Participant)  
 03/2016 Latin American Conference, MIT (Privacy, Keynote speaker)  
 02/2016 Action week, TM Forum (OPAL)

01/2016 Big Data: Key to the Future or the End of Privacy?, Vodaphone (Panel)  
 01/2016 Plenary committee meeting, CNIL (Privacy)  
 01/2016 Lunchtime seminar, Eurostat (Privacy)  
 12/2015 Workshop on Location Confidentiality and Official Surveys, US Census (Privacy)  
 12/2015 O'Reilly Strata Singapore (Rated 4.83/5 by participants)  
 11/2015 21st Century Public Interest Data Sharing, OECD (ITF Partnership Board)  
 10/2015 CITP Speaker Series, Princeton (Privacy)  
 10/2015 Atlantic Council (Privacy)  
 09/2015 O.E.C.D. (Privacy of location data)  
 08/2015 Seminar, MIT SENSEable City Lab (Estimating unicity)  
 07/2015 Explore, Thales (Privacy and re-identification)  
 06/2015 Ecole d'été du CERIUM, Université of Montreal (Privacy)  
 06/2015 MIT Club of Belgium (Balancing Privacy and Utility)  
 06/2015 O.C.H.A, United Nations (Humanitarian uses of data)  
 06/2015 8th Annual Privacy Law Scholars Conference (Participant)  
 04/2015 Cartagena Data Festival (Privacy of mobile phone data)  
 02/2015 Big Data Bootcamp, UNFPA (Privacy of mobile phone data)  
 01/2015 Seminar, Cambridge University (The privacy bounds of human mobility)  
 12/2014 Seminar, University of Massachusetts Amherst (Privacy)  
 11/2014 EPFL (The privacy bounds of human mobility)  
 11/2014 S.G. Seminar, ETH (Predictive power and privacy of metadata)  
 11/2014 Ubiquity, Mobility, Globality: Charting Directions in Mobile Phone Studies, University of Pennsylvania (Panel)  
 11/2014 Boston Data Festival (The privacy bounds of human mobility)  
 09/2014 The Boston Consulting Group (Impact of mobile technologies on business)  
 09/2014 Office of the CTO, RSA Labs (Privacy of mobile phone data)  
 09/2014 Radcliffe Institute for Advanced Study, Harvard (Using Cell Phones to Change Society)  
 08/2014 Privacy and Data Security Seminar, TU Dresden  
 07/2014 Bill and Melinda Gates Foundation (Unlocking Mobile Data for Development)  
 03/2014 Harvard Faculty Club (Topics in Privacy seminar)  
 03/2014 ARPA-E (Protecting the privacy of locational data)  
 02/2014 Coeur des Sciences, Université du Québec à Montreal  
 01/2014 American University of Beirut (The privacy bounds of human mobility)  
 11/2013 ENS de Lyon (The privacy bounds of human mobility)  
 10/2013 DataSwap, Northeastern University (Data privacy)  
 09/2013 CEGA, University of California Berkeley (Using Data to Optimize Operations and Marketing)  
 06/2013 International Conference on Network Science, DTU (Unique in the Crowd: The privacy bounds of human mobility)  
 07/2013 NSTIC Plenary meeting (Data privacy)  
 04/2013 Social Computing, Behavioral-Cultural Modeling, & Prediction conference (Predicting people personality using novel mobile phone-based metrics)  
 12/2012 TRIP 2012, EPFL (Protecting the Privacy of Personal Data through Change of Ownership)  
 03/2012 TEDxLouvainLaNeuve (Big but personal data)  
 08/2011 TEDxULg (The mathematics of human sociality)  
 02/2011 IEEE Social Computing (The Need for Champions for Approximate Social Search)  
 02/2011 Workshop on Information in Networks (An Experiment in Approximate Social Search)  
 03/2010 Université catholique de Louvain (Extreme degeneracies characterize the module identification problem for complex networks)

06/2009 The Santa Fe Institute (The Effect of Cities: Selection vs. Adaptation)

ADVISING

Andrea Gadotti, Imperial PhD, Applications of Differential Privacy, 2017-  
Florimond Houssiau, Imperial PhD, Theoretical justifications for noise addition, 2017-  
Artur Donaldson, Imperial, Review of re-identification cases, 2017  
Lisa Zhu, MIT, Review of re-identification cases, 2017  
Arnaud Tournier, Imperial PhD, Biometrics for big data, 2017-  
Ali Farzanehfar, Imperial PhD, Privacy of High-Dimensional data, 2017-  
Dounia Mulders, Louvain, Machine learning techniques for CDR, 2015-2016  
Cyril de Bodt, Louvain, Machine learning techniques for CDR, 2015-2016  
William Navarre, MIT, Bandicoot, 2015-2016  
Keeley Erhardt, MIT, Bandicoot, 2015  
Bjarke Felbo, DTU, Machine learning techniques for CDR, 2014-2015  
Walter Menendez, MIT-EECS, Bandicoot toolbox, 2014  
Kevin Mustelier, MIT-EECS, Bandicoot toolbox, 2014  
Laura Radaelli, Aarhus U, Unicity of User Mobility Data, 2013-2014  
Camelia Simoiu, University of Amsterdam, The determinants of Influence, 2013-2014  
Jonathan Uesato, MIT-Math, EEG data, 2014  
Luc Rocher, ENS de Lyon, International Migrations, 2013-Now  
Florent Robic, ENS de Lyon, The sociality of arrival processes, 2012-2014  
Robin Hu, MIT-EECS, Models of evolving graphs, 2011-2014  
Aurimas Bukauskas, MIT-SAP, Visualizing evolving graphs, 2012-2013  
Marco Salazar, MIT-EECS, Visualizing arrival times, 2012  
Ryan Liu, MIT-EECS, Centrality and Profits in trading networks, 2011-2012  
Nick Pellegrino, MIT-Econ, Social networks in economics, 2011  
Yueyang Liu, MIT-Math, Models of evolving graphs, 2011  
Chelsea Finn, MIT-EECS, Node arrival processes, 2010-2012  
Jesika Haria, MIT-EECS, Low-tech networks, 2010-2011