

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 (DoC)
Director of the Algorithmic Society Lab (DSI)

European Commission, Brussels, Belgium
Special Adviser to Commissioner Vestager (Competition), 2018-2019

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

PREVIOUS
ACADEMIC
POSITIONS

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: 2250+, H-index: 13
<http://scholar.google.com/citations?user=LVJtdoEAAAAJhl=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
 [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)
 [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)
 [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., Farzanehfar A., Hendrickx J. and Rocher L., Solving Artificial Intelligence's Privacy Problem. *Facts Reports (Special Issue 17 pp.80-83) and Data Science Institute White Paper*, February 2018

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 AND
UNDER SUBMISSION

Radaelli, L., Sapiezynski, P., Houssiau, F., Shmueli, E. and de Montjoye, Y.A.. Quantifying Surveillance in the Networked Age: Node-based Intrusions and Group Privacy. arXiv preprint arXiv:1803.09007. (2018)

Gadotti, A., Houssiau, F., Rocher, L. and de Montjoye, Y.A.. When the signal is in the noise: The limits of Diffix's sticky noise. arXiv preprint arXiv:1804.06752. (2018)

de Montjoye Y.-A., Blondel Y., Canright G., de Cordes N., Deletaille S., Engø-Monsen K., Gams S., Garcia-Herranz M., Kendall J., Kerry C., Krings G., Luengo-Oroz M., Oliver N., Rutherford A., Smoreda Z., Wetter E., Pentland A., Bengtsson L. Models for the privacy-conscientious use of mobile phone data (2017)

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 jury for the CNIL/INRIA award for research on privacy protection, 2016, 2017, 2018

Honorable Mention in the UN Global Pulse's Data For Climate Challenge, 2017

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

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

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

Innovators under 35 for Belgium (TR35), 2015

Fellow of the ID³ foundation for data-driven design, 2013-Now

Senior 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	<p>D4R-Turkey'18: The Data for refugees challenge</p> <p>OECD'17 workshop on mobile technology-based services for global health and wellness</p> <p>D4D-Senegal'14: The Mobile Phone Data for Development Challenge</p> <p>NetMob'14: [Co-Chair] Conference on the Analysis of Mobile Phone Datasets and Networks</p> <p>SocialD'13: [Co-Chair] A conversation on Social Dynamics at NetSci</p> <p>NetMob'13: Conference on the Analysis of Mobile Phone Datasets and Networks</p> <p>NetMob'11: Conference on the Analysis of Mobile Phone Datasets and Networks</p>
PROGRAM COMMITTEE	<p>Complex Networks'18: International Conference on Complex Networks and Their Applications</p> <p>Data Natives'18: Data Natives UK Conference</p> <p>WWW'16, 18: World Wide Web Conference</p> <p>AAAI'18: AAAI Conference on Artificial Intelligence</p> <p>DTL Award Grants'17: Data Transparency Lab Award Grants</p> <p>IC2S2'17: International Conference on Computational Social Science</p> <p>CSCML'17: International Symposium on Cyber Security Cryptography and Machine Learning</p> <p>Data for Policy'16, 17: Frontiers of Data Science for Government</p> <p>Infer'16: International Workshop on Inference & Privacy in a Hyperconnected World</p> <p>IWPE'16, 17: Workshop on Privacy Engineering</p> <p>SBP(-BRiMS)'14, 15, 16, 17: Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction</p> <p>WSDM'15: Conference on Web Search and Data Mining</p> <p>PrInf'15: Workshop on Privacy and Inference</p> <p>Wearable-S&P'15: Workshop on Wearable Security and Privacy</p> <p>SocialCom'12, 13, 14, 15: IEEE Conference on Social Computing</p> <p>PriSecCSN'12, 13, 14 Symposium on Privacy and Security in Cloud and Social Networks</p> <p>Telco'14: Workshop for Telco Data-driven Innovations</p> <p>WCPR' 14: Workshop on Computational Personality Recognition (ACM Multimedia).</p> <p>SocInfo'13: Conference on Social Informatics</p> <p>SPSN'11, 12: Workshop on Security and Privacy in Social Networks</p> <p>SocInfo'10, 11, 12: Conference on Social Informatics</p> <p>ICWSM'11: Workshop on the Social Mobile Web</p>
PROFESSIONAL EXPERIENCE	<p>The Boston Consulting Group, Boston, MA 05/2014-07/2014</p> <p style="padding-left: 40px;"><i>Intern in the Strategic Analytics team.</i></p> <p style="padding-left: 40px;"><i>Helped analyze the couponing strategy of a large retail client</i></p> <p>X-Pack, Verviers, Belgium 07/2006-08/2006</p> <p style="padding-left: 40px;"><i>Blue collar internship</i></p> <p>Darco Network, Liège, Belgium 07/2001</p> <p style="padding-left: 40px;"><i>Development of a database web-interface</i></p>
SELECTED TALKS	<p>05/2018 InfoSecurity conference DK (Keynote)</p> <p>01/2018 Royal Academies for Science and the Arts of Belgium (Invited Speaker)</p> <p>11/2017 OECD Workshop on new technologies in transportation (Chair)</p>

10/2017 Imperial Global Science Policy Forum (Speaker)
 10/2017 Belnet Conference 2017 (Keynote)
 10/2017 UK Behavioural Insights Team (Lunch speaker)
 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 Pint of Science (Speaker)
 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?, Vodafone (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 (Pri-
 vacy)
 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

Axel Oehmichen, Imperial RA, Privacy-preserving data processing platforms, 2017-

Andrea Gadotti, Imperial PhD, Applications of Differential Privacy, 2017-

Florimond Houssiau, Imperial PhD, Theoretical justifications for noise addition, 2017-

Arnaud Tournier, Imperial PhD, Biometrics for big data, 2017-

Ali Farzanehfar, Imperial PhD, Privacy of High-Dimensional data, 2017-

Artur Donaldson, Imperial UROP, Review of re-identification cases, 2017

Lisa Zhu, MIT UROP, Review of re-identification cases, 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