

Data for Policy 2016 – Programme

Thursday, 15 September 2016

09:30 – 10:00 **Arrivals & Registration**

10:00 – 10:20 **Welcome & Introductions**

Andy **Hopper**, Professor of Computer Technology and Head of Department, Computer Laboratory, University of Cambridge

Zeynep **Engin**, Chief Organiser, Data for Policy 2016; Senior Research Associate, Urban Dynamics Lab, UCL; Policy Fellow, Centre for Science and Policy, University of Cambridge

10:20 – 11:20 **Opening Plenary Session**

“Big Data Analytics and EU Policy-making – huge potential, significant challenges”

Maive **Rute**, Deputy Director-General of Joint Research Centre, European Commission

“Platform Government and a Data Science for Policy-making?”

Helen **Margetts**, Director of the Oxford Internet Institute, University of Oxford

“Algorithmic Regulation: Using Blockchain smart contract technology to revolutionise Financial Regulation”

Philip **Treleaven**, Professor of Computing and Director of the Financial Computing Centre, University College London

Chair: Jon **Crowcroft**, Marconi Professor of Communications Systems, Computer Laboratory, University of Cambridge; The Alan Turing Institute

11:20 – 11:40 **Break**

11:40 – 12:40 **Parallel Session 1**

Session 1a: *Policy Process I*

Chair: Sir David **Wallace**, University of Cambridge

[67] *“Haze Gazer: A Crisis Analysis and Visualization Tool to Better Inform Peatland Fire and Haze Management”* – Derval **Usher**, George **Hodge**, Imaduddin **Amin** and Jong Gun **Lee**; UN Pulse Lab Jakarta, Indonesia

[95] *“Science for policy in the Big Data era”* – Panayotis **Christidis**, European Commission, Joint Research Centre, Spain

[103] *“Policy Compass - Prosperity Indicator-based Accountable Policy Analysis*

and Evaluation via Open Data Exploitation” – Sotirios **Koussouris**, National Technical University of Athens, Greece; Panagiotis **Kokkinakos**, Greece; Ourania **Markaki**, National Technical University of Athens, Greece; Fabian **Kirstein**, Fraunhofer FOKUS, Germany; Yury **Glikman**, Fraunhofer FOKUS, Germany; Habin **Lee**, Brunel University London, UK.

Session 1b: Methods I

Chair: Kenneth **Benoit**, Head of the Department of Methodology, London School of Economics and Political Sciences

[18] *“The model is simple, until proven otherwise – how to cope in an ever changing world”* – Anita **Faul**, University of Cambridge, UK

[34] *“Early detection of properties at risk of blight using spatiotemporal data”* – Eduardo **Blancas Reyes**, Jennifer **Helsby**, Katharina **Rasch**, Talia **Kaufmann**, Paul **van der Boor**, Lauren **Haynes** and **Rayid Ghani**, University of Chicago, USA

[56] *“A systematic approach to Systemic Risk”* – Antoaneta **Sergueiva**, University College London and Bank of England; David **Bholat**, Bank of England, UK

[101] *“The future of human-machine decision-making”* – Claire **Craig**, The Royal Society; Susannah **Odell**, The Royal Society; Richard **Sandford**, GO-Science, UK

12:40 – 13:40 Lunch & Poster Session

Poster Presentations

[8] *“Determinants of e-governance adoption practice in Public Administration of Sub Saharan Africa: Evidence from Cameroon”* – Soazic Elise **Wang Sonne**, United Nations University-MERIT, Netherlands

[10] *“Exact and Approximate Methods for Public Payments: Who gets what anyway?”* – Charles **Rahal**, University of Birmingham, UK

[11] *“Governance, the Commons and IoT: An Agriculture use case of Data for Policy”* – Harris **Moysiadis** and Nikos **Zotos**, Future Intelligence, Greece

[12] *“Resurgence of Marx in Modern Day, Electronic Journalism”* – Aniruddha **Saha**, School of Communication, Manipal University, India

[17] *“Informatics in Out of Hours Secondary Care Service Delivery: Methods and Applications to Inform Health Care Policy and Management”* – Iker **Perez**, Michael **Brown**, James **Pinchin**, Sarah **Martindale**, Sarah **Sharples**, Dominick **Shaw**, University of Nottingham; John **Blakey**, Liverpool School of Tropical Medicine, UK

[19] *“Working hard or hardly working: Evaluating New Labour's active labour market policy, 1997 – 2010”* – Peter **Hill**, University of Warwick, UK

- [25] *“Developing a sociotechnical imaginary: The role of publics in the future of new forms of data”* – Emily **Rempel**, Julie **Barnett** and Hannah **Durrant**, University of Bath, UK
- [32] *“Linking foresight with simulation as part of an algorithmic impact assessment toolkit for decision-making, machine learning algorithms in the public sector”* – Michael **Veale**, University College London, UK
- [33] *“You can’t use Data for Policy w/o Analytics Literate Leaders”* – Richard **Lee**, IMECS, LLC, USA
- [36] *“Evaluating the Impact of Arts-led Policy on the Gentrification in London Using Spatio-temporal Big Data”* – Xiao **Zhou**, Desislava **Hristova**, and Cecilia **Mascolo**, University of Cambridge; Anastasios **Noulas**, University of Lancaster, UK
- [58] *“When the chips come out: is our public interest research infrastructure fit for the future?”* – Jen **Persson**, defenddigitalme, UK
- [60] *“Generating Policy Insights from Micro-Narratives”*, Chiara **Amato**, Andreas **Karmhus**, Elena Cora **Magrini**, Charlie **Mealings**, Benjamin **Vigreux**, University College London, UK
- [69] *“Forecasting housing markets with Search keywords: A methodological ‘horse race’ ”* – Donald **Stevens** and Franz **Fuerst**, University of Cambridge, UK
- [72] *“Discovery of complex anomalous patterns of sexual violence in El Salvador”* – Maria **De-Arteaga** and Artur **Dubrawski**, Carnegie Mellon University, USA
- [77] *“Data for Science Policy: A SWOT Analysis”* – Arnaud **Vaganay**, London School of Economics and Political Sciences, UK
- [78] *“The data science “pet” solution: Assessing solution acceptability and changing problem definitions”* – Kimberly **Gardner** and Eric **Lindquist**, Boise State University, USA
- [80] *“Information Diffusion and Economic Development”* – Christopher **Smith-Clarke** and Licia **Capra**, University College London, UK
- [88] *“Research directions for harvesting cross-sectorial correlations towards improved policy making”* – Nikolaos **Dimitriou** and Anastasios **Drosou**, CERTH/ITI, Greece; Nikolaos **Sarris**, ATC, Greece; Athanasios **Konstantinidis**, ICL, United Kingdom; Dimitrios **Tzovaras**, CERTH/ITI, Greece
- [96] *“Data-Driven Discussions: A Social Platform for Open Data to discuss and visualize from heterogeneous data sources”* – Gennaro **Cordasco**, Seconda Università di Napoli; Renato **De Donato**, Delfina **Malandrino**, Pina **Palmieri**, Andrea **Petta**, Donato **Pirozzi**, Vittorio **Scarano**, Luigi **Serra**, Carmine **Spagnuolo** and Luca **Vicidomini**, Dipartimento di Informatica, Università degli Studi di Salerno, Italy
- [104] *“Mass Replication of Policy Evaluation Through Citizen-Led Randomized Trials”* - J. Nathan **Matias**, MIT Media Lab Center for Civic Media, US

13:40 – 14:40 Keynote Lecture 1

“Data for Policy: a Myth or a Must?”

Enrico **Giovannini**, Co-Chair, UN Data Revolution Group, University of Rome ‘Tor Vergata’

Chair: Andrew **Blake**, Executive Director, The Alan Turing Institute

14:45 – 15:45 Parallel Session 2

Session 2a: Official Statistics

Chair: David **Johnson**, Interim Head of the Data Science Campus, Office for National Statistics

[15] *“Data Science and Public Policy: A Changing Landscape for the US Federal Government”* – Dan **Gaylin**, NORC at the University of Chicago, USA

[16] *“On the Evolution of the United Kingdom Price Distributions”* – Kim **Huynh**, Bank of Canada, Canada; Ba **Chu**, Carleton University, Canada; David **Jacho-Chavez**, Emory University, USA; Oleksiy **Kryvtsov**, Bank of Canada, Canada

[51] *“Role of Data science in official statistics (ONS)”* – Iva **Spakulova**, Office for National Statistics, UK

[90] *“Big Data as a Source for Official Statistics: Assessment of Using Mobile Phone Data for Population”* – Fernando **Reis**, Eurostat, Luxembourg; Freddy **de Meersman**, Proximus, Belgium; Marc **Debusschere**, Statistics Belgium, Belgium; Albrecht **Wirthmann**, European Commission – Eurostat, Luxembourg

Session 2b: Health & Wellbeing

Chair: Derek **Wyatt**, Chair, Royal Trinity Hospice; NHS Innovations South East, UK

[4] *“Fragile states and citizen data analytics: gathering voices and mapping beliefs for UNICEF”* – Claudia **Abreu Lopes**, Africa's Voices Foundation; Sharath **Srinivasan**, Centre of Governance and Human Rights, University of Cambridge, UK

[26] *“Measuring Organizational Performance from Customer Reviews: The case of National Health Service in England”* – Radoslaw **Kowalski**, Slava **Mikhaylov** and Marc **Esteve**; University College London, UK

[45] *“Historical Analysis of Policy and Economic Influence on National Subjective Wellbeing Using”* – Thomas **Hills**, Eugenio **Proto** and Daniel **Sgroi**; University of Warwick, UK

Session 2b: Data for Land Governance Policy Making

Chair: TBC

[41a] *“Public Policies for Creation of Land Records Big Data”* – Sachin **Garg**, School of Policy, Government & International Affairs, George Mason University, USA

[41b] *“Monitoring the Land Governance: case of Ukraine”* – Denys **Nizalova**, Kateryna **Ivinskaa**, Klaus **Deiningerb**, Sergiy **Kubakha**, Oleg **Niviyevskiya**; Kyiv School of Economics, Ukraine; World Bank, USA

15:45 – 16:05 **Break**

16:05 – 17:05 **Parallel Session 3**

Session 3a: Open Data

Chair: Peter **Smith**, Professor of Social Statistics, ESRC Administrative Data Research Centre for England and University of Southampton

[24] *“Towards open metadata and governance”* – Mandy **Chessell**, IBM, UK

[31] *“Crowdsourcing the collection and analysis of data on companies’ Environmental, Social and Governance performance – WikiRate.org”* – Richard **Mills**, University of Cambridge, UK

[86] *“A Policy Oriented Methodology for the Publishing and Maintenance of Open Government Data”* – Andrea **Maurino** and Carlo **Batini**, Università degli Studi di Milano, Bicocca, Italy; Gianluigi **Viscusi**, École Polytechnique Fédérale de Lausanne, Switzerland

[106] *“Sharing more widely: data at the heart of evidence, policy and transformation at Defra”* – Vanessa **Pilley**, Stefan **Janusz**, Farhana **Amin**, Francesca **Gauntlett**, Steve **Wilkinson**, Kathleen **Cameron**, Gary **Kass**, Mike **Rose**, Jonathan **Hicks**, Emily **Miles** and Ian **Boyd**; Department for Environment Food & Rural Affairs (Defra), UK

Session 3b: Session organised by the Bank of England

Chair: Gabrielle **Demange**, Directeur d'Etudes at EHESS; Associate Chair, Paris School of Economics, France

[100a] *“Gauging market dynamics using EMIR trade repository data: The case of the Swiss franc de-pegging”* – Olga **Cielinska**, Andreas **Joseph**, Ujwal **Shreyas**, John **Tanner** and Michalis **Vasios**, Bank of England, UK

[100b] *“News and narratives in financial systems: Exploiting big data for systemic risk assessment”* – Rickard **Nyman**, University College London; David **Gregory**, Bank of England; Sujit **Kapadia**, Bank of England; Paul **Ormerod**, University College London; David **Tuckett**, University College London; Robert **Smith**,

University College London, UK

[100c] *"History Dependence in the Housing Market"* – Philippe **Bracke**, Bank of England; Silvana **Tenreiro**, London School of Economics and Political Sciences, UK

Session 3c: Urban Data I

Chair: David **Howarth**, Professor of Law and Public Policy, Department of Politics and International Studies, University of Cambridge

[27] *"Online spaces for urban citizen-sourcing: A comparison of US civic engagement apps"* – Sarah **Giest**, Leiden University, Netherlands; Ansgar **Koene**, Nottingham University, UK; Elvira Perez **Vallejos**, Nottingham University, UK; Olli **Pitkänen**, Helsinki Institute for Information Technology, Finland; and Mattia **Fosci**, Gada, UK

[68] *"Big data visions: towards the development of low-carbon road transport policies"* – Elena **Paffumi**, European Commission JRC Institute for Energy and Transport, Italy; Michele **De Gennaro**, Austrian Institute of Technology G.m.b.H., Austria; **Giorgio Martini**, European Commission JRC Institute for Energy and Transport, Italy

[74] *"Boosting Tech Innovation Ecosystems in Cities, A framework for growth and sustainability of urban tech innovation ecosystems"* – Nga **Nguyen**, World Bank, Netherlands; Victor **Mulas** and Xin **Qian**, World Bank, USA

[105] *"Use of Emerging Data to Improve Passenger Vehicle Safety, Emissions, and Mobility Policy"* – H Scott **Matthews**, Paul **Fischbeck**, and Chris **Hendrickson**, Carnegie Mellon University; Dana **Peck**, US Department of Transportation, USA

17:05 – 19:00

Conference Reception

Friday, 16 September 2016

09:15 – 09:30 **Tea & Coffee**

09:30 – 10:30 **Parallel Session 4**

Session 4a: *Methods II*

Chair: Rayid **Ghani**, Director of the Center for Data Science and Public Policy, University of Chicago

[28] *“Rankings on data: the two-sided setting”* – Gabrielle **Demange**, Paris School of Economics - PSE-EHESS, France

[37] *“The role of mixed methods data in causal inference: Examples from three Australian trials”* – Nicholas **Biddle**, Australian National University, Australia

[54] *“Assessing the Effectiveness of EU Conditionality in Driving Change in Strategy Processes and Strategies: Application of text analytics for policy analysis”* – Rioh **Burke-Derby** and Alfio **Puglisi**, University College London, UK; Alexander **Kleibrink**, European Commission Joint Research Centre, Spain; Slava **Mikhaylov**, University College London, UK

[75] *“Drones and Data: UAVs as instrument of gathering data and its impact on intelligence”* – Clemens **Binder** and Isabella **Rebasso**, Austrian Institute for International Affairs, Austria

Session 4b: *Big data for science and innovation policy* – organised by **Technopolis**

Chair: Cristina **Rosemberg**, Technopolis Group

[42] *“Building an innovation data analytics platform for Welsh Government: Early findings from an ongoing project”* – Juan **Mateos-Garcia**, James **Gardiner** and Jen **Rae**, Nesta, UK

[108] *“The impact of public support for innovation on firm level outcomes: using data linking for policy evaluation”* – Mike **King**, National Physical Laboratory; Dan **Hodges**, Innovate UK

Discussant: Ian **Viney**, UK Medical Research Council

Session 4c: *Workshop – Network of Innovators* – organised by **The GovLab**, New York University

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Beth **Noveck**, The Jerry Hultin Global Network Professor, Tandon School of Engineering; Co-Founder and Director of The GovLab, New York University

Andrew **Young**, Associate Director of Research, The GovLab, New York University

10:30 – 10:50 **Break**

10:50 – 11:50 **Keynote Lecture 2**

“Big Data and the Social Sciences: Can Accuracy and Privacy Co-Exist?”

Jim **Waldo**, Gordon McKay Professor of the Practice of Computer Science and the Chief Technology Officer, School of Engineering and Applied Sciences, Harvard University

Chair: Anthony **Finklestein**, Chief Scientific Adviser for National Security to HM Government; Professor of Software Systems Engineering, The Alan Turing Institute

11:50 – 12:10 **Student Poster Finalists – 3min presentations**

12:10 – 13:10 **Lunch & Poster Session**

13:10 – 14:10 **Parallel Session 5**

Session 5a: *Urban Data II*

Chair: Michail **Skaliotis**, Head of Task Force - Big Data at EUROSTAT, European Commission

[44] *“Policy recommendations to promote the use of digital social innovation and open data for better addressing the mobility requirements of people with disabilities”* – Louise **Francis**, University College London; Mireia **Ferri**, Estrella **Dura**, and Maite **Ferrando** Polibienestar Research Institute, University of Valencia, Spain

[64] *“Urban Planning for Active and Healthy Public Spaces with User-Generated Big Data”* – Loes **van Renswouw**, Fontys University of Applied Sciences, School of Sport Studies; Sander **Bogers**, Eindhoven University of Technology; Steven **Vos**, Fontys University of Applied Sciences, School of Sport Studies, Netherlands

[87] *“Finding optimal sites for free schools using public sector data”* – Dan **Heron**, Cabinet Office, UK

Session 5b: *Politics*

Chair: Slava **Mikhaylov**, Department of Political Science, University College London

[7] *“Reading Between the Lines: Prediction of Political Violence Using Newspaper Text”* – Mueller **Hannes**, IAE (CSIC), Barcelona GSE, Spain; Christopher **Rauh**, University of Cambridge, INET Institute, UK

[40] *“The horizontalization of EU affairs in national parliaments: A dynamic automated content analysis of plenary debates in The Netherlands and the UK”* – Rik **de Ruiter** and Jelmer **Schalk**, Leiden university, Netherlands

[48] *"New and improved indicators for 'fragile states'?"* – Isabel **Rocha de Siqueira**, IRI/PUC-Rio, Brazil

[52] *"Data-Driven Innovation for NGO's: How to define and mobilise the Data Revolution for Sustainable Development?"* – Thomas **Baar**, Aikaterini **Deligianni** and Christoph Johann **Stettina**, Leiden University, Netherlands

Session 5c: *Big data in the online economy*

Chair: TBC

[29] *"Taxation on Data and privacy protection"* – Francis **Bloch**, PSE-Paris 1; Gabrielle **Demange**, PSE-EHESS, France

[61] *"Financial data for the Good Society: an innovative data-science approach for Big Data regulatory reporting"* – Harald **Stieber**, European Commission, DG FISMA, Belgium; Prabhat **Agarwal**, European Commission, DG CONNECT, Belgium; Petros **Kavassalis**, University of the Aegean, Greece; Keith **Saxton**, KS Strategic; Francis **Gross**, European Central Bank, DG Statistics, Germany

[102] *"Living Lab Research as Intermediation"* – James **Stewart**, Ewan **Klein** and Catherine **McGill**, University of Edinburgh, UK

14:15 – 15:15 **Parallel Session 6**

Session 6a: *Economy*

Chair: Barbara **Ubaldi**, The Organisation for Economic Co-operation and Development (OECD)

[35] *"Diverse uses of government contracting data to improve spending of public funds"* – Mihály **Fazekas** and Ágnes **Czibik**, University of Cambridge, UK

[49] *"Using new data to answer old questions on the extractive industries"* – David **Mihalyi** and David **Manley**, Natural Resource Governance Institute, UK

[76] *"Competitive Intensity and Corruption Risks in the Hungarian Public Procurement 2009-2015"* – Istvan Janos **Toth** and Miklos **Hajdu**, Corruption Research Center Budapest, Hungary

Session 6b: *Methods III*

Chair: David **Mair**, Head of Unit, Science Advice to Policy, European Commission Joint Research Centre

[22] *"Reviewing the worldwide trends of National Geoportals"* – Joep **Crompvoets**, Bruno **Broucker** and Geert **Bouckaert**, KU Leuven - Public Management Institute, Belgium

[98] *“Proxy Errors with Policy Consequences: Agricultural Productivity”* – Caroline Leigh **Anderson**, University of Washington Evans School; Travis **Reynolds**, Colby College; Pierre **Biscaye**, Evans School of Public Policy & Governance; Joshua **Merfeld**, University of Washington, USA

[107] *“Developing a semantic legal research interface for the OECD Services Trade Restrictiveness Index”* – Frédéric **Gonzales**, Sébastien **Miroudot** and Thierry **Vebr**, Organisation for Economic Cooperation and Development (OECD), France

Session 6c: Policy Process II

Chair: Daniel **Castro**, Director, Centre for Data Innovation, US

[6] *“Privacy - conscientious use of mobile phone data”* – Yves-Alexandre **de Montjoye**, Massachusetts Institute of Technology, USA

[47] *“The Next Step in Data-Driven Policy: Tensions in the Air and Progress on the Ground”* – Ralph **Schroeder**, Oxford Internet Institute, UK; Martijn **Poel**, Technopolis, Netherlands; Diana **Vlad Calcic**, European Commission, Belgium; Jerome **Treperman**, Technopolis, Germany; Arthur Thomas, Oxford Internet Institute, UK; Joost van Barneveld, Technopolis, Netherlands

[81] *“Humanitarian Data Responsibility: Distributed Risk - Holistic Governance”* – Johan Bernard **Berens**, Leiden University, Netherlands; Lucy **Bernholz**, PACS, Stanford University, USA; Nathaniel **Raymond**, Harvard Humanitarian Initiative, USA; Gideon **Shimshon**, Centre for Innovation, Leiden University, Netherlands; Stefaan **Verhulst**, The Governance Laboratory, New York University, USA

[83] *“Development of an engagement framework for data science and its use in policy”* – Michelle **Brook** and Anthony **Zacharzewski**, The Democratic Society, UK

15:15 – 15:35 **Break**

15:35 – 16:35 **Closing Plenary Session**

“Translating Rigorous Evidence into Policies that Benefit the Poor”
Quentin **Palfrey**, Executive Director, J-PAL North America, Massachusetts Institute of Technology (MIT)

“A Data-driven Public Sector for Sustainable and Inclusive Governance”
Barbara **Ubaldi**, The Organisation for Economic Co-operation and Development (OECD)

“Doing practical data science for social good and public policy”
Rayid **Ghani**, Director of the Center for Data Science and Public Policy, University of Chicago

Chair: Jean **Bacon**, Professor Emerita of Distributed Systems, Computer Laboratory, University of Cambridge

16:35 - 16:50

Awards & Final Remarks

16:50

End