

# Marco Del Vecchio

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## EDUCATION

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<b>MPhil Machine Learning, Speech and Language Technology</b> <i>University Of Cambridge, Cambridge, U.K.</i>	2017 - 2018
<b>BSc (Hons) Mathematics, Operational Research, Statistics, Economics</b> <i>University of Warwick, Coventry, U.K.</i> First Class	2014 - 2017
<b>University Foundation Year</b> <i>EF School, Cambridge, U.K.</i> 82% Overall	2013 - 2014
<b>Diploma di Esame di Stato</b> <i>ITS Enrico Fermi, Rome, Italy</i> 100% Overall	2008 - 2013

## EXPERIENCE

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<b>Scala And Spark Developer Intern</b> <i>Quantexa, London U.K.</i> Developed a scoring system for automatic fraud detection in Apache Spark and Scala for London Midland, a Quantexa client. Received training in Quantexa's entity resolution and network building, and analytics and risk assessment technologies.	08/2017 - 09/2017
<b>Research Affiliate</b> <i>University of Warwick, Warwick Manufacturing Group, Coventry, U.K.</i> Research Affiliate in the Service Systems Research Group. Research areas: computational statistics, data management, social media data analytics, machine learning, and system design.	08/2016 - 07/2017
<b>Research Intern</b> <i>University of Warwick, Warwick Manufacturing Group, Coventry, U.K.</i> Completed a research internship in the Behavioural Data Analytic Team and the associated URSS (Undergraduate Research Support Scheme) experience. Co-authored the paper "Using Big Data to Understand Why Cooking Makes Us Healthier" with Prof. Ganna Pogrebna that is currently under review in Management Science. Presented the project at the annual URSS Research Showcase.	06/2016 - 07/2016
<b>Research Intern</b> <i>University of Warwick, Warwick Manufacturing Group, Coventry, U.K.</i> Completed a research internship in the Product Evaluation Technology Team and the associated URSS (Undergraduate Research Support Scheme) experience. — Designed a workflow aimed at the creation of immersive virtual environments from 3D point cloud scan data. — Presented the technology under research to possible clients in the architectural and television industries as well as at the annual URSS Research Showcase.	07/2015 - 08/2015
<b>Intern</b> <i>Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), Rome, Italy</i> Completed an enterprise software insight week in the Italian National Agency for New Technologies, Energy and Sustainable Economic Development. The software was concerned with database, back-ups and cloud processing systems.	05/2013
<b>Associate</b> <i>Advanced Electronic Quality (AEQ), Rome, Italy</i> Charged with forecasting levels of demand for products to meet business needs, managing stock levels, identifying potential suppliers and creating solutions for the company's clients.	09/2012 - 05/2013
<b>Intern</b> <i>Microsoft, Rome, Italy</i> Completed an internship in the team responsible for developing Active Directory for office environments. — Actively took	06/2012

part in the development of a Microsoft Active Directory's architecture for a company client, and simulated the solution in a virtual laboratory. — Received training to work within the Microsoft Solution Framework 4.

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## PUBLICATIONS

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W. Guo, M. Del Vecchio and G. Pogrebna (2017). *Global Network Centrality of University Rankings*, **Royal Society Open Science**, 4: 171172. <http://dx.doi.org/10.1098/rsos.171172> (Cover feature)

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## UNDER REVIEW

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Z. Wood, D. Walker, M. Del Vecchio, and G. Parry (2017). *A Computational Model to Develop a Taxonomy of Businesses*, under review in **ACM Transactions on Intelligent Systems and Technology**

M. Del Vecchio and G. Pogrebna (2017). *The Michelin Curse - Expert Judgment Versus Public Opinion* under review in **Management Science**

M. Del Vecchio and G. Pogrebna (2016). *Using Big Data to Understand Why Cooking Makes Us Healthier*, under review in **Management Science**

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## CONFERENCE PAPERS AND PRESENTATIONS

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M. Del Vecchio (2017). *The Michelin Curse - Expert Judgment Versus Public Opinion*. Presentation at the International Conference Of Undergraduate Research (ICUR)

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## TEACHING EXPERIENCE

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**The R Course** 05/2016 - 04/2017  
*The University of Warwick MORSE Society, Coventry, U.K.*  
Creator, organiser and volunteer teacher of The R Course, a course aimed at providing students with a sound understanding of the R language as well as research-related tools and examples of topics in data science via 19 weeks of lab sessions and seminars.

**Of Neural Networks And Kernel Machines** 19/07/2016 & 26/07/2017  
*Warwick Manufacturing Group, The University of Warwick, Coventry, U.K.*  
Creator, organiser and teacher of a two-day workshop covering the theoretical and practical aspects of Feedforward Neural Networks, Support Vector Machines and Support Vector Regression and their training in Python.

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## ADMINISTRATIVE DUTIES

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**Organiser** 01/2017 - 04/2017  
*Wolfson-HAT Annual Symposium on the Digital Person*

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## WRITING

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**The Warwick Engineer:** *The Clean Energy Paradox — Twitter Data Mining and Computational Social Science — P versus NP — The Grandfather's Paradox — From 3D Point Cloud Scan Data to Immersive Virtual Environments*

**Reinvention, an International Journal of Undergraduate Research:** *Review of Twitter: A Digital Socioscope, Cambridge: Cambridge University Press*

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## TECHNOLOGY SUMMARY

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**Programming Languages:** R, Python, Scala, Spark , C++, SQL

**Software:** Gephi, MATLAB, Simul8, Autodesk 3Ds Max, Unity3D

**DBMSs:** Neo4j, MySQL

**Operating Systems:** Linux, Windows, Mac OSX