

Leto Peel

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| CONTACT INFORMATION | Department of Data Analytics and Digitalisation School of Business and Economics Tongersestraat 53 6211 LM Maastricht The Netherlands | <i>E-mail:</i> l.peel@maastrichtuniversity.nl <i>WWW:</i> piratepeel.github.io <i>Twitter:</i> @PiratePeel |
| RESEARCH INTERESTS | Machine Learning and Data Mining in Network Data Structures community detection, social network analysis, Bayesian statistics, graphical models, blockmodels, active learning, anomaly and change-point detection. | |
| ACADEMIC EXPERIENCE | Maastricht University , Maastricht, The Netherlands | |
| | <i>Assistant Professor</i> | Jan 2022 to present |
| | <ul style="list-style-type: none">• Dept. of Data Analytics and Digitalisation, School of Business and Economics | |
| | <i>Assistant Professor</i> | Aug 2020 to Dec 2021 |
| | <ul style="list-style-type: none">• Institute of Data Science, Faculty of Science and Engineering• Dept. of Data Analytics and Digitalisation, School of Business and Economics | |
| | Université catholique de Louvain , Louvain-la-neuve, Belgium | |
| | <i>FNRS Chargé de recherche</i> | Oct 2017 to Aug 2020 |
| | <ul style="list-style-type: none">• Project: <i>Methods for detecting changes in the structure of complex networks</i> | |
| | <i>MOVE IN Louvain Research Fellow</i> | Aug 2016 to Sep 2017 |
| | <ul style="list-style-type: none">• Project: <i>Detecting the Large-scale Structures in Collections of Networks</i> | |
| | <i>Postdoctoral Research Associate</i> | Aug 2015 to Aug 2016 |
| | <ul style="list-style-type: none">• Project: <i>Mining and Optimization of Big Data Models</i>• Supervisor: Jean-Charles Delvenne | |
| | Université de Namur , Namur, Belgium | |
| | <i>Visiting Researcher</i> | Aug 2015 to Aug 2019 |
| | <ul style="list-style-type: none">• Supervisor: Renaud Lambiotte | |
| | University of Colorado at Boulder , Boulder CO, USA | |
| | <i>Postdoctoral Research Associate</i> | Aug 2013 to Jul 2015 |
| | <ul style="list-style-type: none">• Project: <i>Statistical Inference for Detecting Structures and Anomalies in Networks</i>• Supervisor: Aaron Clauset | |
| | University College London , London, UK | |
| | <i>Postdoctoral Research Associate</i> | Apr 2012 to Apr 2013 |
| | <ul style="list-style-type: none">• Project: <i>Crime, Policing and Citizenship</i>• Supervisor: John Shawe-Taylor | |
| RESEARCH EXPERIENCE (INDUSTRY) | BAE Systems Advanced Technology Centre , Bristol, UK | |
| | <i>Senior Research Scientist</i> | Jan 2011 to Dec 2011 |
| | <i>Higher Research Scientist</i> | Jun 2008 to Dec 2010 |
| | <i>Research Scientist</i> | Aug 2006 to May 2008 |

EDUCATION

University College London, London, UK

EngD, Virtual Environments, Imaging and Visualisation,

Mar 2009 – Aug 2013

- Thesis Topic: *Predicting the Attributes of Nodes in Networks*
- Advisers: Simon Julier, John Shawe-Taylor
- Examiners: Mark Herbster, Steve Gregory

University of Bristol, Bristol, UK

MEng., Knowledge Engineering,

Sep 2001 – Jul 2006

- Thesis Topic: *Rule Based Uncertainty in the Semantic Web*
- Adviser: Trevor Martin

FUNDING

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| Starter grant | 300,000 EUR |
| Individual grant <i>ministerie van Onderwijs, Cultuur en Wetenschap (OCW), 2023</i> | |
| Creating FUTUre societal RESILIENCE through innovative, science-based co-creation labs (Total: 2,889,408 EUR) | 172,219 EUR |
| Consortium Partner (with: Burak Can, Sanae Okamoto, Serdar Turkeli) <i>Horizon Europe Coordinating and Support Actions, 2022</i> | |
| Reconstructing networks from uncertain time-evolving data | 800,000 EUR |
| Individual grant <i>NWO Talent Scheme: VIDI — Science domain, 2022</i> | |
| Small Scale Research grant | 4,000 EUR |
| Individual grant <i>Graduate School of Business and Economics, Maastricht University, 2022</i> | |
| Workshop support fund (WWCS18), | 7,500 EUR |
| Workshop organiser , (Co-organisers: S. Selakovic, Q. Feng, J. Garcia-Bernardo) <i>multiple sources: (Utrecht Uni. UNamur, Corpnnet, CSS), 2018</i> | |
| Integrated response for infectious disease surveillance: Development and application of AI models for TB control (Total: 1,133,717 EUR) | 312,900 EUR |
| Technical and scientific manager , (PIs: J-C. Delvenne, M. Delmée, X. Morelle) <i>Innoviris Team Up, 2017</i> | |
| Methods for detecting changes in the structure of complex networks | 230,700 EUR |
| Individual fellowship <i>FNRS Chargé de Recherche, 2017-20</i> | |
| DataBeers Brussels | 5,718 EUR |
| Event organiser <i>multiple sources: (VUB, ISACA, Dataminded, UCL, Dataiku, B&D), 2016-20</i> | |
| Detecting large-scale structures in collections of networks | 112,000 EUR |
| Individual fellowship <i>MOVE-IN Louvain (co-funded by Marie-Curie actions), 2016-7</i> | |
| Travel fellowships (total) | 2,155 EUR |
| Individual travel fellowship <i>FNRS, 2015-7</i> | |
| Maritime wide area surveillance using AIS data | 300,000 GBP |
| Project manager and technical lead <i>BAE Systems TTP, 2011</i> | |
| Role detection in networks | 100,000 GBP |
| Project manager and technical lead <i>BAE Systems TTP, 2010</i> | |

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| RESEARCH VISITS | • Umea University, Umea, SE (<i>host: Martin Rosvall</i>) | Oct 2019 |
| | • Universidad Rovira i Virgili, Tarragona, ES (<i>host: Alex Arenas</i>) | Mar 2019 |
| | • ISC-Sapienza, Rome, IT (<i>host: Antonio Scala</i>) | Jan 2019 |
| | • MIT, MA, US (<i>host: Michael Schaub</i>) | Mar 2018 |
| | • Tor Vergata, Rome, IT (<i>host: Antonio Iovanella</i>) | Feb 2018 |
| | • CNRS, Paris, FR (<i>host: Claire Lagesse</i>) | Jul 2016 |
| | • Harvard School of Public Health, MA, US (<i>host: Dan Larremore</i>) | Aug 2014 |
| | • Santa Fe Institute, NM, US (<i>host: Cris Moore</i>) | Jan 2014 |

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| AWARDS | • Complex Systems Service Award for the <i>Winter Workshop on Complex Systems</i> , 2022 (with: J. Grujic, L.A.M. Vaquero, M. Stella, A. Antonioni, A. Aloric, F. Battiston, S. Bartolucci, V. Gligorijevic, Q. Feng, J. Garcia Bernardo, S. Selakovic, G. Siedem, J. Klamut, T. Raducha, M. Willinski, B. Tepekule, M. Cinelli, A. Bovet, S. Rajeh, A. Keuchenius, L. Tupikina, C. Singh, I. Malvestio, F. Gursay, H. El Gouj, C. Lagesse) | |
| | • Graduate School of Business and Economics Fellow, 2021 – 2024 | |
| | • Publons Peer Review Awards Top 1% in Field, 2018 | |
| | • Best speaker award at the 5 th Mediterranean School on Complex Networks, 2018 | |
| | • 15 th recipient of the prestigious Zachary Karate Club Club prize, 2018 | |
| | • One of the 20 Best Reviewers at the 12 th International AAAI Conference on Web and Social Media (ICWSM), 2018 | |
| | • Best Oral Presentation Award at the 6 th International Conference on Complex Networks and Their Applications, 2017 | |
| | • 3 rd in Best Student Paper Award at the 14 th International Conference on Information Fusion (Prize USD 1000), 2011 | |
| | • Received Honourable Mention in the category of Best Student Paper Award at the 13 th International Conference on Information Fusion, 2010 | |
| | • Winner of the IEEE Prognostics and Health Management Data Challenge, 2008 (IEEE GOLD Category) (Prize USD 2500) | |
| | • BAE SYSTEMS Bronze Chairman's Award for Innovation for <i>Intelligent Fault Diagnosis Technologies</i> , 2008 | |
| | • L.N. Fryer Physics Prize, 2001 | |

GOOGLE SCHOLAR <http://scholar.google.com/citations?user=GR-yASwAAAAJ&hl=en>

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| REFEREED PUBLICATIONS | “Hierarchical community structure in networks” M. T. Schaub, J. Li, L. Peel <i>Physical Review E</i> , 2023 107 (5): 054305 | (arXiv:2009.07196) |
| | “Statistical inference links data and theory in network science” L. Peel , T. P. Peixoto, M. De Domenico <i>Nature Communications</i> , 2022 13 (1): 6794 | |
| | “Network constraints on the mixing patterns of binary node metadata” M. Cinelli, L. Peel , A. Iovanella, J-C. Delvenne <i>Physical Review E</i> , 2020 102 (6): 062310 | (arXiv:1908.04588) |
| | “Community detection in networks without observing edges” T. Hoffmann, L. Peel , R. Lambiotte, N. Jones <i>Science Advances</i> , 2020 6 (4): eaav1478 Preprint featured on the PLOS Complexity Channel, Sept. 2018 | (arXiv:1808.06079) |
| | “Individual perception dynamics in drunk games” A. Antonioni, L. A. Martinez-Vaquero, C. Mathis, L. Peel , M. Stella <i>Physical Review E</i> , 2019 99 (5): 052311 Featured on the Physical Review E Kaleidoscope, May 2019 | (arXiv:1807.08635) |
| | “The architecture of an empirical genotype-phenotype map” J. Aguilar-Rodríguez, L. Peel , M. Stella, A. Wagner, J. Payne <i>Evolution</i> , 2018 72 (6): 1242–1260 Top 10% Most Downloaded Paper 2018–2019 | |

- “Multiscale mixing patterns in networks”
L. Peel, J.-C. Delvenne, R. Lambiotte
Proc. Natl. Acad. Sci. USA, 2018 **115** (16): 4057–4062 (arXiv:1708.01236)
- “The ground truth about metadata and community detection in networks”
L. Peel, D. Larremore, A. Clauset
Science Advances, 2017 **3** (5): e1602548 (arXiv:1608.05878)
- “Graph-based semi-supervised learning for relational networks”
L. Peel
SIAM Int. Conf. on Data Mining (SDM), Apr 27–29, 2017 (arXiv:1612.05001)
 Acceptance rate 26%
- “Detectability thresholds and optimal algorithms for community structure in dynamic networks”
 A. Ghasemianlangroodi, P. Zhang, A. Clauset, C. Moore, **L. Peel**
Physical Review X, 2016 **6** (3): 031005 (arXiv:1506.06179)
- “Predicting sports scoring dynamics with restoration and anti-persistence”
L. Peel, A. Clauset
IEEE Int. Conf. on Data Mining (ICDM), Nov 14–17, 2015 (arXiv:1504.05872)
 Acceptance rate 18.2% (regular paper 8.4%)
- “Detecting change points in the large-scale structure of evolving networks”
L. Peel, A. Clauset
AAAI Conf. on Artificial Intelligence (AAAI), Jul 25–30, 2015. (arXiv:1403.0989)
 Acceptance rate 26.7%
- “Active discovery of network roles for predicting the classes of network nodes”
L. Peel
Journal of Complex Networks, 2014 **3** (3): 431-449. (arXiv:1312.7258)
- “Maritime anomaly detection using Gaussian process active learning”
 K. Kowalska, **L. Peel**
Int. Conf. on Information Fusion (FUSION), July 9–12, 2012.
- “Estimating parameters for selecting community detection algorithms”
L. Peel
Journal of Advances in Information Fusion. 6(2):119–130. 2011.
- “Topological feature based classification”
L. Peel
Int. Conf. on Information Fusion (FUSION), Jul 5–8, 2011. (arXiv:1110.4285)
 3rd in Best Student Paper Award
- “Capturing time-of-flight data with confidence”
 M. Reynolds, J. Doboš, **L. Peel**, T. Weyrich, G.J. Brostow
IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), Jun 20–25, 2011.
 Acceptance rate 26.4%
- “Estimating parameters for selecting community detection algorithms”
L. Peel
Int. Conf. on Information Fusion (FUSION), Jul 26–29, 2010. (arXiv:1010.5377)
 Honourable Mention for Best Student Paper Award
- “Data driven prognostics using a Kalman filter ensemble of neural network models”
L. Peel
IEEE Conf. on Prognostics and Health Management (PHM), October 6–9, 2008.
 IEEE GOLD Winner of PHM Challenge 2008
- OTHER PUBLICATIONS “Dynamical Game Theory”
 A. Antonioni, L. A. Martinez-Vaquero, N. Mathis, **L. Peel**, M. Stella
Proc. of the Santa Fe Institute Complex Systems Summer School (CSSS), 2014

“Change-point detection in temporal networks using hierarchical random graphs”

L. Peel, A. Clauset

ACM SIGKDD Works. on Outlier Detection & Description under Data Diversity (ODD² 2014), Aug 24, 2014.

“Supervised blockmodelling”

L. Peel

ECML/PKDD Works. on Collective Learning and Inference in Structured Data(CoLISD), Sep 28, 2012. (arXiv:1209.5561)

“Fast maritime anomaly detection using kd-tree Gaussian processes”

J. Will, **L. Peel**, C. Claxton

IMA Mathematics in Defense Conference, Oct 20, 2011.

PATENTS

L. Peel, Detecting a least one community in a network. *International Application No.: PCT/GB2011/050464*, Publication Date: 22.09.2011 International Filing Date: 09.03.2011

INVITED TALKS

- *Clustering, graphs and hierarchies mini-symposium, Aachen, DE* Aug 11, 2023
- *Statistical Inference for Network Models, NetSci Satellite, Vienna, AT* Jul 11, 2023
- *Complexity Science Hub, Vienna, AT* Jul 7, 2023
- *Dutch Network Science Society Winter Symposium, Twente, NL* Jan 13, 2023
- *Leiden Complex Networks Network (LCN2), Leiden, NL* May 20, 2022
- *Department of Network and Data Science, CEU, Vienna, AT* Jun 10, 2021
- *Networks Seminar, Mathematical Institute, University of Oxford, UK* Oct 20, 2020
- *MIX-NEXT, NetSci Satellite, Rome, IT* Sep 17, 2020
- *DTU Compute, Technical University of Denmark, DK* Mar 9, 2020
- *École Normale Supérieure de Lyon, FR* Feb 26, 2020
- *Dept. of Data Analytics and Digitalisation, Maastricht University, NL* Feb 10, 2020
- *Institute of Interactive Systems and Data Science, TU Graz, AT* Feb 4, 2020
- *Institute of Data Science, Maastricht University, NL* Nov, 29, 2019
- *Integrated Science Lab, Umea University, SE* Oct, 15, 2019
- *Network Architecture and Systems Group, TU Delft, NL* Oct, 4, 2019
- *6th Mediterranean School of Complex Networks, Salina, IT* Sep 6, 2019
- *5th Int. Conf. on Comp. Social Science (IC2S2), Amsterdam, NL* Jul 20, 2019
- *Int. Works. on Comp. Economics and Econometrics, Rome, IT* Jul 3-5, 2019
- *Department of Network and Data Science, CEU, Budapest, HU* Mar 18, 2019
- *Department of Economics, Ghent University, Ghent, BE* Feb 28, 2019
- *Research Group on the Analysis of Economic Policies, Rome, IT* Jan 25, 2019
- *University College London Financial Computing Seminar, UK* Dec 14, 2018
- *Dept. of Mathematical Sciences, Politecnico di Torino, IT* Nov 14, 2018
- *Telecommunications and microwaves seminar, KU Leuven, BE* Oct 5, 2018
- *Dynamics on and of Complex Networks XI, Thessaloniki, GR* Sep 27, 2018
- *5th Mediterranean School of Complex Networks, Salina, IT* Sep 7, 2018
- *Int. Works. on Comp. Economics and Econometrics, Rome, IT* Jun 26, 2018
- *Fondazione Bruno Kessler, Trento, IT* Apr 11, 2018
- *Institute for Data Systems and Society, MIT, Cambridge, MA, US* Mar 12, 2018
- *Center for Data Science, New York Univ., New York, NY, US* Feb 28, 2018
- *Donnelly Centre, Univ. of Toronto, CA* Feb 26, 2018
- *University of Rome Tor Vergata, Rome, IT* Feb 21, 2018
- *Institute of Cognitive Sciences and Technologies, Rome, IT* Feb 20, 2018
- *9th Int. Conf. of the ERCIM WG CMStatistics, Seville, ES* Dec 10, 2016
- *Networks Seminar, Dept. of Bus. Admin., Univ. of Zurich, CH* Oct 25, 2016
- *Dept. of Computer Science, Univ. of Exeter, UK* Jul 26, 2016
- *Complex Systems Inst. of Paris (ISC-PIF), CNRS, FR* Jul 21, 2016
- *Dept. of Computer Science, Lancaster Univ., UK* Feb 1, 2016
- *Inference on Networks workshop, Santa Fe Institute, NM, US* Dec 14, 2015
- *AI Lab, Vrije Universiteit Brussel, BE* Dec 3, 2015
- *Meyers Lab, Dept. of Int Bio, Univ. of Texas, Austin, TX, US* Jan 26, 2015
- *Dynamics Of and On Networks works., Santa Fe Institute, NM, US* Dec 18, 2014
- *Network Science Lab, Harvard School of Public Health, MA, US* Aug 29, 2014
- *Dynamical Systems Seminar, CU Boulder, CO, US* Mar 20, 2014

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| | <ul style="list-style-type: none"> • <i>Invited Talk, Santa Fe Institute, NM, US,</i> • <i>Euro. Partners Against Corruption 12th Conf., Barcelona, ES,</i> • <i>UCL CPC Project Launch Event, Univ. College London, UK,</i> • <i>IEEE Conf. on Prognostics and Health Mgmt., Denver, CO, US,</i> | <p>Jan 10, 2014</p> <p>Nov 22, 2012</p> <p>May 18, 2012</p> <p>Oct 6–9, 2008</p> |
| CONTRIBUTED TALKS | <ul style="list-style-type: none"> • <i>Networks (Joint Sunbelt and NetSci), Virtual,</i> • <i>Int. Conf. on Network Science (NetSci), Rome, IT,</i> • <i>Complex Networks and their Applications, Lisbon, PT,</i> • <i>Int. Conf. on Network Science (NetSci), Burlington, VT, US,</i> • <i>10th Conf. on Complex Networks (CompleNet), Tarragona, ES,</i> • <i>8th Belgian Network Research Meeting, Hasselt, BE,</i> • <i>Complex Networks and their Applications, Cambridge, UK,</i> • <i>The 2018 Conf. on Complex Systems (CCS), Thessaloniki, GR,</i> • <i>The 2018 Conf. on Complex Systems (CCS), Thessaloniki, GR,</i> • <i>DATAM 2018, CCS Satellite, Thessaloniki, GR,</i> • <i>People, places things, NetSci Satellite, Paris, FR,</i> • <i>Statistical Inference for Network Models, NetSci Satellite, Paris, FR,</i> • <i>7th Belgian Network Research Meeting, Ghent, BE,</i> • <i>Int. Conf. on Complex Networks and their Applications, Lyon, FR,</i> • <i>The 2017 Conf. on Complex Systems (CCS), Cancun, MX,</i> • <i>The 2017 Conf. on Complex Systems (CCS), Cancun, MX,</i> • <i>The 2017 Conf. on Complex Systems (CCS), Cancun, MX,</i> • <i>Int. Conf. on Network Science (NetSci), Indianapolis, IN, US,</i> • <i>Statistical Inference for Network Models works., NetSci2017, IN, US,</i> • <i>Machine Learning in Network Science works., NetSci2017, IN, US,</i> • <i>Machine Learning Conf. of the Benelux (BeneLearn), Eindhoven, NL,</i> • <i>SIAM Int. Conf. on Data Mining (SDM), Houston, TX, US,</i> • <i>8th Workshop on Complex Networks (CompleNet), Dubrovnik, HR,</i> • <i>8th Workshop on Complex Networks (CompleNet), Dubrovnik, HR,</i> • <i>The 2016 Conf. on Complex Systems (CCS), Amsterdam, NL,</i> • <i>The 2016 Conf. on Complex Systems (CCS), Amsterdam, NL,</i> • <i>Int. Conf. on Network Science (NetSci), Seoul, KR,</i> • <i>IEEE Int. Conf. on Data Mining (ICDM), Atlantic City, NJ, US,</i> • <i>5th Belgian Network Research Meeting, Namur, BE,</i> • <i>Outlier Detection & Description under Data Diversity, NY, US,</i> • <i>Complex Systems Summer School, Santa Fe Institute, NM, US,</i> • <i>Int. Conf. on Network Science (NetSci), Berkeley, CA, USA,</i> • <i>Collective Learning and Inference in Structured Data, Bristol, UK,</i> • <i>Int. Conf. on Information Fusion (FUSION), SG,</i> • <i>Int. Conf. on Information Fusion (FUSION), Chicago, IL, US,</i> • <i>Int. Conf. on Information Fusion (FUSION), Edinburgh, UK,</i> | <p>Jul 6, 2021</p> <p>Sep 23, 2020</p> <p>Dec 12, 2019</p> <p>May 29, 2019</p> <p>Mar 19, 2019</p> <p>Feb 22, 2019</p> <p>Dec 12, 2018</p> <p>Sep 25, 2018</p> <p>Sep 24, 2018</p> <p>Sep 26, 2018</p> <p>Jun 12, 2018</p> <p>Jun 11, 2018</p> <p>Dec 6, 2017</p> <p>Dec 1, 2017</p> <p>Sep 19, 2017</p> <p>Sep 19, 2017</p> <p>Sep 18, 2017</p> <p>Jun 21, 2017</p> <p>Jun 20, 2017</p> <p>Jun 19, 2017</p> <p>Jun 9, 2017</p> <p>Apr 28, 2017</p> <p>Mar 23, 2017</p> <p>Mar 21, 2017</p> <p>Sep 22, 2016</p> <p>Sep 22, 2016</p> <p>Jun 1, 2016</p> <p>Nov 17, 2015</p> <p>Sep 30, 2015</p> <p>Aug 24, 2014</p> <p>Jul 3, 2014</p> <p>Jun 5, 2014</p> <p>Sep 28, 2012</p> <p>Jul 9, 2012</p> <p>Jul 6, 2011</p> <p>Jul 26, 2010</p> |
| CONFERENCE POSTERS | <ul style="list-style-type: none"> • M. Faccin, L. Peel, A. Bovet, B. Chiem, L. Gutierrez Gomez, A. Medvedev, M. Seth, J-C. Delvenne, The variability of network structures inferred from time series data. <i>Int. Conf. on Network Science (NetSci)</i>, September 2020 • M. Faccin, L. Peel, A. Bovet, B. Chiem, L. Gutierrez Gomez, A. Medvedev, M. Seth, J-C. Delvenne, The variability of network structures inferred from time series data. <i>Conference on Complex Networks</i>, December 2019 • L. Peel, Graph-based semi-supervised learning for relational networks. <i>SIAM International Conference on Data Mining</i>, April 2017 • L. Peel, D. Larremore, A. Clauset, The ground truth about metadata and community detection in networks. <i>Conference on Complex Networks</i>, December 2016 • L. Peel, D. Larremore, A. Clauset, The ground truth about metadata and community detection in networks. <i>7th Workshop on Complex Networks</i>, March 2016 • L. Peel, A. Clauset, Detecting large-scale changes in the structure of evolving networks. <i>29th AAAI Conference on Artificial Intelligence</i>, January 26, 2015. • T. Cheng, K. Bowers, P. Longley, J. Shawe-Taylor, R. Davenport, S. Moat, L. Peel, Crime, policing and citizenship. <i>RCUK Global Uncertainties Ideas and Beliefs Showcase Event</i>, October 1, 2012. • L. Peel, Inference of abnormal behaviour in shipping vessels. <i>CPC Launch Event</i>, May 18, 2012. • L. Peel, Topological feature based classification. <i>Machine Learning Summer School</i>, September | |

4–17, 2011.

PRESS

- Community Detection
phys.org Jenna Marshall, May 4, 2017
(also in [Science Newsline](#) and [Eurekalert](#))
- Sports Scoring
[Clyde Street](#) Keith Lyons, February 21, 2017
[Clyde Street](#) Keith Lyons, August 5, 2017
- Crime, Policing and Citizenship
[The Guardian](#) Ami Sedghi, October 30, 2012

ACADEMIC SERVICE

Editorial

Recommender/Associate Editor, *Peer Community In Network Science* 2020 – present

Academic Editor, *PLOS ONE* 2019 – 2023

Guest Editor, *PLOS ONE Special Issue of the 8th International Conference on Complex Networks and Their Applications* 2019

Guest Editor, *Applied Network Science Special Issue of the 7th International Conference on Complex Networks and Their Applications* 2018

Conference Organisation

International School and Conference on Network Science (NetSci) 2025
Maastricht, The Netherlands

Workshop Organisation

Researching Adult Content Creators on Digital Platforms

Co-organisers: Catalina Goanta

Maastricht, The Netherlands. June 2021

Network Reconstruction Science-athon

Co-organisers: Alexandre Bovet, Benjamin Chiem, Mauro Faccin, Leo Gutierrez, Alexey Medvedev, Mridul Seth

Beaumont, Belgium. August 2019

Winter Workshop on Complex Systems 2018

Co-organisers: Sanja Selakovic, Qingyi Feng, Javier Garcia-Bernardo

Utrecht, The Netherlands. February, 2018

Belgian Network Research Meeting (BeNet) 2016

Co-organisers: Sophie Béreau, Jean-Charles Delvenne, Yerali Gandica, Leo Gutierrez, Mauro Faccin, Michael Schaub

Louvain-la-neuve, Belgium. December, 2016

Conference on Complex Systems 2016 workshop on Coarse-graining Complex Systems

Co-organisers: Mauro Faccin, Renaud Lambiotte, Michael Schaub

Amsterdam, The Netherlands. September 21, 2016

NetSci 2015 2nd workshop on Statistical Inference for Network Models

Co-organisers: Aaron Clauset, Abigail Z. Jacobs and Dan Larremore

Zaragoza, Spain. June, 2015

NIPS 2014 workshop on Networks: From Graphs to Rich Data

Co-organisers: Edo Airoldi, David Choi, Aaron Clauset and Johan Ugander

Montreal, Quebec, Canada. December 13, 2014

NetSci 2014 workshop on Statistical Inference for Network Models

Co-organisers: Aaron Clauset, Abigail Z. Jacobs and Dan Larremore

Berkeley, California, USA. June 2, 2014

Technical Program Committee Member

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| (Senior PC) AAAI Conference on Web and Social Media (ICWSM) | 2022 – 2023 |
| ACM/IEEE Advances in Social Network Analysis and Mining (ASONAM) | 2022 |
| International School and Conference on Network Science (NetSci-X) | 2020, 2022 – 2024 |
| AAAI Conference on Artificial Intelligence (AAAI) | 2016 – 2022 |
| ACM SIGKDD Conference on Knowledge Discovery and Data Mining | 2021 |
| International Workshop on Social Sensing (SocialSens) | 2021 |
| The Web Conference (<i>formerly</i> : WWW) | 2017 – 2021 |
| ACM International Conference on Web Search and Data Mining (WSDM) | 2016, 2020 – 2021 |
| AAAI Conference on Web and Social Media (ICWSM) | 2016 – 2020 |
| International Conference on Complex Networks and their Applications | 2017 – 2022 |
| International School and Conference on Network Science (NetSci) | 2017, 2019 – 2020, 2023 |
| International Conference on Complex Networks (CompleNet) | 2018, 2020 – 2021 |
| ACM Web Science Conference (WebSci) | 2014, 2020 |
| International Workshop on Machine Learning with Graphs (MLG) | 2019 |
| International Conference on Social Informatics (SocInfo) | 2017 – 2018 |
| International Workshop on Dynamics on and of Networks (DYNO) | 2018 |
| SIAM Workshop on Network Science (NS) | 2018 |
| Workshop on Data Science for Human Performance in Social Networks | 2017 |
| SDM Workshop on Mining Networks and Graphs | 2015 |
| International Conference on Information Fusion (FUSION) | 2010 – 2012 |

Reviewer

Journals

Algorithms, Applied Network Science, BMC Bioinformatics, Chaos, Communications Physics, Data Mining and Knowledge Discovery, Entropy, Europhysics Letters, IEEE Communications Magazine, IEEE Intelligent Systems, Journal of Machine Learning Research, Journal of Psychopathology and Clinical Science, Journal of Statistical Mechanics, Nature Communications, Neural Computing and Applications, New Journal of Physics, PeerJ Computer Science, Physical Review E, Physical Review Letters, Physical Review Research, Physical Review X, PLOS One, PNAS, Proceedings of the IEEE, Proceedings of the Royal Society A, Science Advances, Scientific Reports, SIAM Journal on Applied Mathematics, SIAM Journal on Mathematics of Data Science, Social Network Analysis and Mining, Soft Computing, Sustainability, Transactions on Knowledge Discovery from Data, Transactions on Network Science and Engineering, Transactions on Pattern Analysis and Machine Intelligence, Transactions on Signal and Information Processing over Networks, Transactions on Signal Processing

PhD Thesis Committees

| | |
|---|------|
| S. Morel-Balbi (Adv: Tiago Peixoto), Mathematical Sciences, University of Bath | 2022 |
| R. Runghen (Adv: Daniel B. Stouffer), Biological Sciences, University of Canterbury | 2021 |

Master Thesis Committees

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| G. Peper (Adv: Roberto Cerina), International Business, UM | 2023 |
| M. Mandilaras (Adv: Roberto Cerina), International Business, UM | 2023 |
| H. Molinghen (Adv: Robert Suurmond), International Business, Maastricht University, UM | 2023 |
| M. Vahedimoghaddam (Adv: Roberto Cerina), International Business, UM | 2023 |
| M. Sears Gil (Adv: Roberto Cerina), International Business, UM | 2022 |
| T. Gadet (Adv: Roberto Cerina), Business Intelligence and Smart Services, UM | 2022 |
| N. Windmüller (Adv: Ron Triepels), International Business, UM | 2022 |
| C. Leutbecher (Adv: Burak Can), International Business, UM | 2022 |
| A. Schmeitz (Adv: Rudolf Muller), Business Intelligence and Smart Services, UM | 2022 |
| L. Xuereb (Adv: Rudolf Muller), Business Intelligence and Smart Services, UM | 2022 |
| H. Li (Adv: Roberto Cerina), International Business, UM | 2022 |
| A. Mazzoni (Adv: Rudolf Muller), Business Intelligence and Smart Services, UM | 2021 |
| Z. McGovern (Adv: Pomme Theunissen), Business Intelligence and Smart Services, UM | 2021 |
| R. Notarangelo (Adv: Hannah Schmitt), Business Intelligence and Smart Services, UM | 2021 |
| C. Kang (Adv: Roselinde Kessels), Business Intelligence and Smart Services, UM | 2020 |
| A. Przybylski (Adv: Visara Urovi), Business Intelligence and Smart Services, UM | 2020 |

Other Service Roles

| | |
|---|-------------|
| Assessment committee member Amrapali Zaveri Awards for Data Science | 2023 |
| NWO Jury Open Technology Programme, Applied and Engineering Sciences | 2021 |
| Tutorial Chair International Conference on Complex Networks and Their Applications | 2020 – 2022 |
| Mentor Society of Young Network Scientists Workshop | 2020 |
| Steering committee member Winter Workshop on Complex Systems | 2018 – 2022 |
| Publicity Chair International Conference on Complex Networks and Their Applications | 2018 – 2019 |
| Advisory panel member W. England Academic Health Science Network Digital Engagement Platform | 2017 – 2018 |
| Elected council member Complex Systems Society | 2016 – 2019 |

STUDENT ADVISING

Doctoral Students

| | |
|--|----------------|
| D. Ferenczi, School of Business and Economics, Maastricht University | 2023 – present |
| M. She, School of Business and Economics, Maastricht University | 2021 – present |
| J. Li, School of Business and Economics, Maastricht University | 2021 – present |
| S. Adekunle, Institute of Data Science, Maastricht University | 2021 – present |
| M. Cinelli (with A. Iovanella), Uni. of Rome Tor Vergata | 2017 – 2019 |
| L. Gutierrez Gomez (with J-C. Delvenne), ICTEAM, UCLouvain | 2016 – 2019 |
| A. Ghasemian (with A. Clauset), Comp. Sci., CU Boulder | 2015 – 2016 |

Master Students

| | |
|---|------|
| S. de Cuba, Information Management and Business Intelligence, Maastricht University | 2023 |
| T. Luo, Information Management and Business Intelligence, Maastricht University | 2022 |
| I. Aydeniz, Digital Business and Economy, Maastricht University | 2022 |
| N. Andrade, Business Intelligence for Smart Services, Maastricht University | 2022 |
| V. Chinna Reddy, Business Intelligence for Smart Services, Maastricht University | 2022 |
| T. Abo Saleh, Business Intelligence for Smart Services, Maastricht University | 2022 |
| J. Reichel, Business Intelligence for Smart Services, Maastricht University | 2022 |
| N. Lardenoije, Business Intelligence for Smart Services, Maastricht University | 2022 |
| G. Feijoo Bleda, Business Intelligence for Smart Services, Maastricht University | 2022 |
| S. Tapia Stocker, Business Intelligence for Smart Services, Maastricht University | 2022 |
| L. Capitani, Business Intelligence for Smart Services, Maastricht University | 2022 |
| P. Gitu, Business Intelligence for Smart Services, Maastricht University | 2022 |
| H. Othman, Business Intelligence for Smart Services, Maastricht University | 2021 |
| A. Corral, Business Intelligence for Smart Services, Maastricht University | 2021 |
| S. Yacoubi, Business Intelligence for Smart Services, Maastricht University | 2021 |
| J. Hu, Business Intelligence for Smart Services, Maastricht University | 2021 |
| L. Hartleb, Business Intelligence for Smart Services, Maastricht University | 2021 |
| D. Bernhardt, Business Intelligence for Smart Services, Maastricht University | 2021 |
| D. Cowen, Business Intelligence for Smart Services, Maastricht University | 2021 |
| G. Hoefstede, Business Intelligence for Smart Services, Maastricht University | 2021 |
| K. Kowalska, BAE Systems ATC (intern) / Eng. Maths, U. of Bristol | 2011 |

Undergraduate Students

| | |
|--|-------------|
| F. Hobbelhagen, Business Analytics, Maastricht University | 2023 |
| H. Devillez (with M. Faccin), Applied Maths, UCLouvain | 2016 |
| M. Huet (with M. Faccin), Elec. Eng., UCLouvain | 2016 |
| R. Cazaciuc, BAE Systems ATC (intern) / Comp. Sci., U. of York | 2011 |
| C. Howarth, BAE Systems ATC (intern) / Maths, U. of Bath | 2009 – 2010 |
| R. Presley, BAE Systems ATC (intern) / Maths, U. of Bath | 2008 |

University Courses

| | |
|---|-------------|
| • Networks and Simulation EBC2184 (Undergraduate) Lecturer/Coordinator – Maastricht University | Spring 2024 |
| • Introduction to Global Studies (Quantitative Methods) GLO1221 (Undergraduate) Lecturer/Coordinator – Maastricht University | Autumn 2023 |
| • Research Methods for Economy & Environment II GLO1521 (Undergraduate) Lecturer/Coordinator – Maastricht University | Spring 2023 |
| • Networks and Simulation EBC2184 (Undergraduate) Lecturer/Coordinator – Maastricht University | Spring 2023 |
| • Introduction to Global Studies (Quantitative Methods) GLO1221 (Undergraduate) Lecturer/Coordinator – Maastricht University | Autumn 2022 |
| • Research Methods for Economy & Environment II GLO1521 (Undergraduate) Lecturer/Coordinator – Maastricht University | Spring 2022 |
| • Introduction to Global Studies (Quantitative Methods) GLO1221 (Undergraduate) Lecturer/Coordinator – Maastricht University | Autumn 2021 |
| • Machine learning for smart services EBC4255 (Graduate) Lecturer/Coordinator – Maastricht University | Autumn 2021 |
| • Research Methods for Economy & Environment II GLO1521 (Undergraduate) Lecturer/Coordinator – Maastricht University | Spring 2021 |
| • Research Methods for Economy & Environment I GLO1421 (Undergraduate) Lecturer/Coordinator – Maastricht University | Spring 2021 |
| • Building and Mining Knowledge Graphs KEN4256 (Graduate) Guest Lecturer – Maastricht University | Spring 2021 |
| • Machine learning for smart services EBC4255 (Graduate) Lecturer/Coordinator – Maastricht University | Autumn 2020 |
| • Introduction to Global Studies (Methods track) GLO1101 (Undergraduate) Lecturer – Maastricht University | Autumn 2020 |
| • Algorithms in data science LINMA 2472 (Graduate) Lecturer – UCLouvain | Autumn 2019 |
| • Algorithms in data science LINMA 2472 (Graduate) Lecturer/Coordinator – UCLouvain | Autumn 2018 |
| • Algorithms in data science LINMA 2472 (Graduate) Lecturer – UCLouvain | Autumn 2017 |
| • Integer Programming LINMA 2450 (Graduate) Teaching Assistant – UCLouvain | Autumn 2015 |
| • Algorithms CSCI 3014 (Undergraduate) Guest Lecturer – University of Colorado | Spring 2014 |
| • Networks CSCI 5352 (Graduate) Guest Lecturer – University of Colorado | Autumn 2014 |
| • Networks CSCI 5352 (Graduate) Guest Lecturer – University of Colorado | Autumn 2013 |

Tutorials and Short Courses

- Graph models and hypothesis testing, Community detection, Link prediction
Summer School Utrecht on Network Science, Utrecht University, Netherlands, July, 2023
- Graph models and hypothesis testing, Community detection, Link prediction
Summer School Utrecht on Network Science, Utrecht University, Netherlands, July, 2022
- Introduction to Network Science
IDS Training Day, Maastricht University, Netherlands. November, 2020
- Network inference in practice.
Mediterranean School of Complex Networks, Salina, Italy. September, 2019
- Network inference in practice.
Mediterranean School of Complex Networks, Salina, Italy. September, 2018
- Philosophy and practice of community detection
Winter Workshop on Complex Systems, Petnica Science Centre, Serbia. February 2017
- Philosophy and practice of community detection
AsCII Tutorial Seminar, UCLouvain, Belgium. March 2017

OUTREACH

DataBeers Brussels *Founder and Organiser*

2016 – 2020

with Jelena Grujic, Johan Loeckx, Eline Vanwalleghem, Marie Hargitt and Ramanuja Rao Kotaprolu

Recurring public outreach and networking event (<http://databeers.brussels/>)

- July 2020
Speakers: José A. Cuesta, Ruben Cuevas, Pieter Libin, Neema Mduma
- February 2020
Speakers: Segolene Martin, Megi Hoxha, Supinya Piampongsant, Valentin Calomme
- November 2019
Speakers: Radovan Parrak, Kris Vanherle, Sofia Papadimitriou
- September 2019
Speakers: Thomas Carette, Thomas Van Vaerenbergh, Thomas De Moor, Thomas Dalberto
- May 2019
Speakers: Geraint Wiggins, Aleksandra Vercauteren, Fariba Karimi, David Bol
- March 2019
Speakers: Kevin Françoisse, Marina Radulaški, Bart Smeets, Ann Dooms
- January 2019
Speakers: Piia Karjalainen, Jelle Grammens, Danielle Marinazzo, Sarah Baatout
- October 2018
Speakers: Hannelore Aerts, Alexandre Bovet, Wouter Denayer, Arne Coutteau
- May 2018
Speakers: Robert Calderbank, Ingrid Daubechies, Pierre-Henri Golard, Katrien Beuls, Gert de Geyter
- March 2018
Speakers: Luc Steels, Aimee Coelho, Julien Hendrickx, Maarten Lambrechts
- January 2018
Speakers: Gautier Krings, Ellie D'Hondt, Michael Gillon, Genevieve Quek
- November 2017
Speakers: Lisa Truyers, Leen Dieltjens, Karim Douieb, Baldwin Berges, Vsevolod Salnikov, Tias Guns
- September 2017
Speakers: Jerome Kunegis, Kris Peeters, Vassilis Syropoulos, Rosanna Kurrer
- May 2017
Speakers: Winnie Poncelet, Shamma Raghib, Daniel Perez, Bavo Van den Heuvel
- November 2016
Speakers: Christina Makarona, Pierre Deville, Marc Vael, Pieter Colpaert

SCHOOLS AND COURSES ATTENDED

- Effective Supervision of PhD Students, ElroyCOM Training, *Maastricht, NL*, 2022
- Mediterranean School of Complex Networks, *Sicily, IT*, 2015
- Summer Teaching as Research Institute for Post-docs in Engineering (STRIPE), University of Colorado, *Boulder, Colorado, USA*, 2014
- Complex Systems Summer School, Santa Fe Institute, *Santa Fe, New Mexico, USA*, 2014
- Machine Learning Summer School, MLSS Series, *Bordeaux, France*, 2011
- Pattern Analysis and Time Series Modelling, Aston University, *Aston, UK*, 2008
- Simultaneous Localisation And Mapping Summer School, SLAM Summer School Series, *Oxford, UK*, 2006
- PRINCE 2 Foundation and Practitioner Project Management, OCG, *UK*, 2006

OTHER EMPLOYMENT

Orange, Bristol, UK

Database Developer

Jun 2006 to Aug 2006

HBOS Financial Services, Bristol, UK

Process Analyst / Database Developer

Sep 2005 to Oct 2005

Ultimate Finance, Bristol, UK

Credit Control Assistant

Jul 2005

Royal Bank of Scotland, Bristol, UK

Finance Assistant

Jun 2005

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|---|----------------------|
| Clerical Medical , Bristol, UK <i>Payments Administrator</i> | Aug 2004 to Mar 2005 |
| Clyde Arms , Bristol, UK <i>Bar Tender and Relief Manager</i> | Sep 2002 to Sep 2004 |
| Barclaycard , Bristol, UK <i>Sales and Marketing Representative</i> | Sep 2002 to Dec 2002 |
| Nemesis Modelling Agency , Birmingham, UK <i>Model</i> | Sep 2001 to Sep 2002 |
| Subway Sandwiches , Bristol, UK <i>Sandwich Artist</i> | Sep 2001 to Jun 2002 |
| Homebase Ltd , Birmingham, UK <i>Customer Services General Assistant</i> | Aug 1999 to Aug 2001 |
| GKN Plc Group Headquarters , Redditch, UK <i>Administrative Assistant</i> | Jul 1999 to Feb 2000 |
| Anne McCarthy , Birmingham, UK <i>Word Processor and IT Support</i> | Jun 1995 to Jan 1997 |