

Leto Peel

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Research Interests

Statistical methodology for network-structured and high-dimensional data: network statistics, graphical models, community detection, statistical inference for complex systems. Development of novel inference techniques balancing theoretical foundations with applications from social networks to biological systems. Research includes Bayesian inference, machine learning, anomaly and change-point detection.

Academic Experience

Maastricht University <i>Assistant Professor</i> Dept. of Data Analytics and Digitalisation, School of Business and Economics	Maastricht, NL <i>2022–Present</i>
Maastricht University <i>Assistant Professor</i> Institute of Data Science, Faculty of Science and Engineering Dept. of Data Analytics and Digitalisation, School of Business and Economics	Maastricht, NL <i>2020–2021</i>
Université catholique de Louvain <i>FNRS Chargé de recherche</i> Project: <i>Methods for detecting changes in the structure of complex networks</i>	Louvain-la- neuve, BE <i>2017–2020</i>
Université catholique de Louvain <i>MOVE IN Louvain Research Fellow</i> Project: <i>Detecting the Large-scale Structures in Collections of Networks</i>	Louvain-la- neuve, BE <i>2016–2017</i>
Université catholique de Louvain <i>Postdoctoral Research Associate</i> Project: <i>Mining and Optimization of Big Data Models</i> Supervisor: Jean-Charles Delvenne	Louvain-la- neuve, BE <i>2015–2016</i>
Université de Namur <i>Visiting Researcher</i> Supervisor: Renaud Lambiotte	Namur, BE <i>2015–2019</i>
University of Colorado at Boulder <i>Postdoctoral Research Associate</i> Project: <i>Statistical Inference for Detecting Structures and Anomalies in Networks</i> Supervisor: Aaron Clauset	Boulder, CO, USA <i>2013–2015</i>
University College London <i>Postdoctoral Research Associate</i> Project: <i>Crime, Policing and Citizenship</i> Supervisor: John Shawe-Taylor	London, UK <i>2012–2013</i>

Research Experience in Industry

BAE Systems Advanced Technology Centre <i>Senior Research Scientist</i>	Bristol, UK <i>2011</i>
BAE Systems Advanced Technology Centre <i>Higher Research Scientist</i>	Bristol, UK <i>2008–2010</i>

Education

University College London London, UK
EngD, Virtual Environments, Imaging and Visualisation 2009–2013
Thesis: *Predicting the Attributes of Nodes in Networks*
Advisers: Simon Julier, John Shawe-Taylor
Examiners: Mark Herbster, Steve Gregory
Award date: 28 November 2013

University of Bristol Bristol, UK
MEng, Knowledge Engineering 2001–2006
Thesis: *Rule Based Uncertainty in the Semantic Web*
Adviser: Trevor Martin

Funding

2025: NetSci 2025 International Conference	47,900 EUR
Lead organiser , (with: A. Iamnitchi, C. Steghuis, C. Bick, I. Kryven, J. Garcia-Bernardo, A. Bovet)	
<i>Multiple sources: NWO, Maastricht Convention Bureau, APS, NETWORKS, TU AMI, ODISSEI, Applied Network Science, Cambridge University Press</i>	
2024: Reconstructing brain-muscle networks of motor impairments across the lifespan	161,387 EUR
Lead applicant , (with: T. Boonstra, K. Meijer, J. Vermeulen)	
<i>Maastricht University Centre for Integrative Neuroscience</i>	
2023: Starter grant	300,000 EUR
Individual grant	
<i>ministerie van Onderwijs, Cultuur en Wetenschap (OCW)</i>	
2022: Creating FUTURE societal RESILIENCE through innovative, science-based co-creation labs	172,219 EUR
Consortium Partner (with: B. Can, S. Okamoto, S. Turkeli)	
<i>Horizon Europe Coordinating and Support Actions (Total project: 2,889,408 EUR)</i>	
2022: Reconstructing networks from uncertain time-evolving data	800,000 EUR
Individual grant	
<i>NWO Talent Scheme: VIDI — Science domain</i>	
2022: Small Scale Research grant	4,000 EUR
Individual grant	
<i>Graduate School of Business and Economics, Maastricht University</i>	
2018: Workshop support fund (WWCS18)	7,500 EUR
Workshop organiser , (Co-organisers: S. Selakovic, Q. Feng, J. Garcia-Bernardo)	
<i>Multiple sources: Utrecht Uni., UNamur, Corpnet, CSS</i>	
2017: Integrated response for infectious disease surveillance	312,900 EUR
Technical and scientific manager , (PIs: J-C. Delvenne, M. Delmée, X. Morelle)	
<i>Innoviris Team Up (Total project: 1,133,717 EUR)</i>	
2017–20: Methods for detecting changes in the structure of complex networks	230,700 EUR
Individual fellowship	
<i>FNRS Chargé de Recherche</i>	
2016–20: DataBeers Brussels	5,718 EUR
Event organiser	
<i>Multiple sources: VUB, ISACA, Dataminded, UCL, Dataiku, B&D</i>	
2016–17: Detecting large-scale structures in collections of networks	112,000 EUR
Individual fellowship	
<i>MOVE-IN Louvain (co-funded by Marie-Curie actions)</i>	

<i>2015–17:</i> Travel fellowships Individual travel fellowship <i>FNRS</i>	2,155 EUR
<i>2011:</i> Maritime wide area surveillance using AIS data Project manager and technical lead <i>BAE Systems TTP</i>	300,000 GBP
<i>2010:</i> Role detection in networks Project manager and technical lead <i>BAE Systems TTP</i>	100,000 GBP

Research Visits

- 2019:* Umeå University, Umeå, SE (host: Martin Rosvall)
- 2019:* Universidad Rovira i Virgili, Tarragona, ES (host: Alex Arenas)
- 2019:* ISC-Sapienza, Rome, IT (host: Antonio Scala)
- 2018:* MIT, MA, US (host: Michael Schaub)
- 2018:* Tor Vergata, Rome, IT (host: Antonio Iovanella)
- 2016:* CNRS, Paris, FR (host: Claire Lagesse)
- 2014:* Harvard School of Public Health, MA, US (host: Dan Larremore)
- 2014:* Santa Fe Institute, NM, US (host: Cris Moore)

Awards

- Complex Systems Service Award for the *Winter Workshop on Complex Systems*, 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. Gursoy, 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 5th Mediterranean School on Complex Networks, 2018
- 15th recipient of the prestigious Zachary Karate Club Club prize, 2018
- One of the 20 Best Reviewers at the 12th International AAAI Conference on Web and Social Media (ICWSM), 2018
- Best Oral Presentation Award at the 6th International Conference on Complex Networks and Their Applications, 2017
- 3rd in Best Student Paper Award at the 14th International Conference on Information Fusion (Prize USD 1000), 2011
- Received Honourable Mention in the category of Best Student Paper Award at the 13th 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 *Intelligent Fault Diagnosis Technologies*, 2008
- L.N. Fryer Physics Prize, 2001

Google Scholar

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

Publications

Papers under Review

Supervised students indicated with †

“Higher order trade-offs in hypergraph community detection”

J. Li[†], M. Schaub, **L. Peel**

Submission date: January 2026

“Inferring signed social networks from contact patterns”

D. Ferenczi[†], J-G. Young, **L. Peel**

Submission date: January 2026

Refereed Publications

Supervised students indicated with [†]

2025: “Gender differences in collaboration and career progression in physics”

M. She[†], J. Bachmann, F. Karimi, **L. Peel**

Royal Society Open Science, **12**: 241536

arXiv:2408.02482

2024: “Detectability of hierarchical communities in networks”

L. Peel, M. T. Schaub

Physical Review E, **110** (3): 034306

arXiv:2009.07525

2023: “Hierarchical community structure in networks”

M. T. Schaub, J. Li[†], **L. Peel**

Physical Review E, **107** (5): 054305

arXiv:2009.07196

2022: “Statistical inference links data and theory in network science”

L. Peel, T. P. Peixoto, M. De Domenico

Nature Communications, **13** (1): 6794

2020: “Network constraints on the mixing patterns of binary node metadata”

M. Cinelli[†], **L. Peel**, A. Iovanella, J-C. Delvenne

Physical Review E, **102** (6): 062310

arXiv:1908.04588

2020: “Community detection in networks without observing edges”

T. Hoffman, **L. Peel**, R. Lambiotte, N. Jones

Science Advances, **6** (4): eaav1478

arXiv:1808.06079

Preprint featured on the PLOS Complexity Channel, Sept. 2018

2019: “Individual perception dynamics in drunk games”

A. Antonioni, L. A. Martinez-Vaquero, C. Mathis, **L. Peel**, M. Stella

Physical Review E, **99** (5): 052311

arXiv:1807.08635

Featured on the Physical Review E Kaleidoscope, May 2019

2018: “The architecture of an empirical genotype-phenotype map”

J. Aguilar-Rodríguez, **L. Peel**, M. Stella, A. Wagner, J. Payne

Evolution, **72** (6): 1242–1260

Top 10% Most Downloaded Paper 2018–2019

2018: “Multiscale mixing patterns in networks”

L. Peel, J-C. Delvenne, R. Lambiotte

Proc. Natl. Acad. Sci. USA, **115** (16): 4057–4062

arXiv:1708.01236

2017: “The ground truth about metadata and community detection in networks”

L. Peel, D. Larremore, A. Clauset

Science Advances, **3** (5): e1602548

arXiv:1608.05878

2017: “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%

2016: “Detectability thresholds and optimal algorithms for community structure in dynamic networks”

A. Ghasemianlangroodi[†], P. Zhang, A. Clauset, C. Moore, **L. Peel**

Physical Review X, **6** (3): 031005

arXiv:1506.06179

2015: “Predicting sports scoring dynamics with restoration and anti-persistence”

L. Peel , A. Clauset		
<i>IEEE Int. Conf. on Data Mining (ICDM)</i> , Nov 14–17, 2015		arXiv:1504.05872
<i>Acceptance rate 18.2% (regular paper 8.4%)</i>		
2015: “Detecting change points in the large-scale structure of evolving networks”		
L. Peel , A. Clauset		
<i>AAAI Conf. on Artificial Intelligence (AAAI)</i> , Jul 25–30, 2015		arXiv:1403.0989
<i>Acceptance rate 26.7%</i>		
2014: “Active discovery of network roles for predicting the classes of network nodes”		
L. Peel		
<i>Journal of Complex Networks</i> , 3(3): 431–449		arXiv:1312.7258
2012: “Maritime anomaly detection using Gaussian process active learning”		
K. Kowalska [†] , L. Peel		
<i>Int. Conf. on Information Fusion (FUSION)</i> , July 9–12, 2012		
2011: “Estimating parameters for selecting community detection algorithms”		
L. Peel		
<i>Journal of Advances in Information Fusion</i> , 6(2): 119–130		
2011: “Topological feature based classification”		
L. Peel		
<i>Int. Conf. on Information Fusion (FUSION)</i> , Jul 5–8, 2011		arXiv:1110.4285
3 rd in Best Student Paper Award		
2011: “Capturing time-of-flight data with confidence”		
M. Reynolds, J. Doboš, L. Peel , T. Weyrich, G.J. Brostow		
<i>IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)</i> , Jun 20–25, 2011		
<i>Acceptance rate 26.4%</i>		
2010: “Estimating parameters for selecting community detection algorithms”		
L. Peel		
<i>Int. Conf. on Information Fusion (FUSION)</i> , Jul 26–29, 2010		arXiv:1010.5377
Honourable Mention for Best Student Paper Award		
2008: “Data driven prognostics using a Kalman filter ensemble of neural network models”		
L. Peel		
<i>IEEE Conf. on Prognostics and Health Management (PHM)</i> , October 6–9, 2008		
IEEE GOLD Winner of PHM Challenge 2008		
Other Publications		
2023: “A model petting zoo for interacting with network structure”		
L. Peel		
<i>Peer Community in Network Science</i>		
2014: “Dynamical Game Theory”		
A. Antonioni, L. A. Martinez-Vaquero, N. Mathis, L. Peel , M. Stella		
<i>Proc. of the Santa Fe Institute Complex Systems Summer School (CSSS)</i>		
2014: “Change-point detection in temporal networks using hierarchical random graphs”		
L. Peel , A. Clauset		
<i>ACM SIGKDD Works. on Outlier Detection & Description under Data Diversity (ODD² 2014)</i> , Aug 24, 2014		
2012: “Supervised blockmodelling”		
L. Peel		
<i>ECML/PKDD Works. on Collective Learning and Inference in Structured Data (CoLISD)</i> , Sep 28, 2012 (arXiv:1209.5561)		
2011: “Fast maritime anomaly detection using kd-tree Gaussian processes”		
J. Will, L. Peel , C. Claxton		
<i>IMA Mathematics in Defense Conference</i> , Oct 20, 2011		

Patents

2011: Detecting a least one community in a network

L. Peel

International Application No.: PCT/GB2011/050464, Publication Date: 22.09.2011, International Filing Date: 09.03.2011

Talks

Invited Talks

2025: Higher Order Opportunities and Challenges workshop, Aachen, DE (Aug 11)

2025: Winter Workshop on Complex Systems, Lombardy, IT (Jan 28)

2024: Inaugural symposium of the DM3L department, Zurich, CH (Sep 12)

2024: Young Researchers of the Complex Systems Society Warm-Up, London, UK (Aug 30)

2024: Social sciences and humanities seminar, eScience center, Amsterdam, NL (Apr 11)

2023: 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)

2022: Leiden Complex Networks Network (LCN2), Leiden, NL (May 20)

2021: Department of Network and Data Science, CEU, Vienna, AT (Jun 10)

2020: 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)

2019: 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)

2018: 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)
2016: 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)
2015: 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)
2014: 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: Invited Talk, Santa Fe Institute, NM, US (Jan 10)
2012: Euro. Partners Against Corruption 12th Conf., Barcelona, ES (Nov 22)
2012: UCL CPC Project Launch Event, Univ. College London, UK (May 18)
2008: IEEE Conf. on Prognostics and Health Mgmt., Denver, CO, US (Oct 6–9)

Contributed Talks.....

- 2024: Statistical Inference for Network Models, NetSci Satellite, Quebec City, CA (Jun 17)
2022: Complex Networks and their Applications, Palermo, IT (Nov 9)
2021: Networks (Joint Sunbelt and NetSci), Virtual (Jul 6)
2020: Int. Conf. on Network Science (NetSci), Rome, IT (Sep 23)
2019: Complex Networks and their Applications, Lisbon, PT (Dec 12)
2019: Int. Conf. on Network Science (NetSci), Burlington, VT, US (May 29)
2019: 10th Conf. on Complex Networks (Complenet), Tarragona, ES (Mar 19)
2019: 8th Belgian Network Research Meeting, Hasselt, BE (Feb 22)
2018: Complex Networks and their Applications, Cambridge, UK (Dec 12)
2018: The 2018 Conf. on Complex Systems (CCS), Thessaloniki, GR (Sep 24–25)
2018: DATAM 2018, CCS Satellite, Thessaloniki, GR (Sep 26)
2018: People, places things, NetSci Satellite, Paris, FR (Jun 12)
2018: Statistical Inference for Network Models, NetSci Satellite, Paris, FR (Jun 11)
2017: 7th Belgian Network Research Meeting, Ghent, BE (Dec 6)
2017: Int. Conf. on Complex Networks and their Applications, Lyon, FR (Dec 1)
2017: The 2017 Conf. on Complex Systems (CCS), Cancun, MX (Sep 18–19)
2017: Int. Conf. on Network Science (NetSci), Indianapolis, IN, US (Jun 21)
2017: Statistical Inference for Network Models works., NetSci2017, IN, US (Jun 20)
2017: Machine Learning in Network Science works., NetSci2017, IN, US (Jun 19)
2017: Machine Learning Conf. of the Benelux (BeneLearn), Eindhoven, NL (Jun 9)
2017: SIAM Int. Conf. on Data Mining (SDM), Houston, TX, US (Apr 28)
2017: 8th Workshop on Complex Networks (CompleNet), Dubrovnik, HR (Mar 21, 23)
2016: The 2016 Conf. on Complex Systems (CCS), Amsterdam, NL (Sep 22)
2016: Int. Conf. on Network Science (NetSci), Seoul, KR (Jun 1)
2015: IEEE Int. Conf. on Data Mining (ICDM), Atlantic City, NJ, US (Nov 17)
2015: 5th Belgian Network Research Meeting, Namur, BE (Sep 30)
2014: Outlier Detection & Description under Data Diversity, NY, US (Aug 24)

- 2014: Complex Systems Summer School, Santa Fe Institute, NM, US (Jul 3)
2014: Int. Conf. on Network Science (NetSci), Berkeley, CA, USA (Jun 5)
2012: Collective Learning and Inference in Structured Data, Bristol, UK (Sep 28)
2012: Int. Conf. on Information Fusion (FUSION), SG (Jul 9)
2011: Int. Conf. on Information Fusion (FUSION), Chicago, IL, US (Jul 6)
2010: Int. Conf. on Information Fusion (FUSION), Edinburgh, UK (Jul 26)

Conference Posters

- 2020: M. Faccin, **L. Peel**, et al., The variability of network structures inferred from time series data. *Int. Conf. on Network Science (NetSci)*, September 2020
2019: M. Faccin, **L. Peel**, et al., The variability of network structures inferred from time series data. *Conference on Complex Networks*, December 2019
2017: **L. Peel**, Graph-based semi-supervised learning for relational networks. *SIAM International Conference on Data Mining*, April 2017
2016: **L. Peel**, D. Larremore, A. Clauset, The ground truth about metadata and community detection in networks. *Conference on Complex Networks*, December 2016; *7th Workshop on Complex Networks*, March 2016
2015: **L. Peel**, A. Clauset, Detecting large-scale changes in the structure of evolving networks. *29th AAAI Conference on Artificial Intelligence*, January 2015
2012: T. Cheng et al., Crime, policing and citizenship. *RCUK Global Uncertainties Ideas and Beliefs Showcase Event*, October 2012
2012: **L. Peel**, Inference of abnormal behaviour in shipping vessels. *CPC Launch Event*, May 2012
2011: **L. Peel**, Topological feature based classification. *Machine Learning Summer School*, September 2011

Press

- 2024: NetSci 2025 – *Congres Wereld, Publique, De Nieuwe Star, Boardroom* (October 2024)
2024: Science of science – *physicsworld* (Michael Allen, September 5, 2024)
2017: Community Detection – *phys.org* (Jenna Marshall, May 4, 2017); also in *Science Newsline* and *Eurekalert*
2017: Sports Scoring – *Clyde Street* (Keith Lyons, February/August 2017)
2012: Crime, Policing and Citizenship – *The Guardian* (Ami Sedghi, October 30, 2012)

Academic Service

Editorial

- 2020–Present: Recommender/Associate Editor, *Peer Community In Network Science*
2019–2023: Academic Editor, *PLOS ONE*
2019: Guest Editor, *PLOS ONE Special Issue of the 8th Intl. Conf. on Complex Networks*
2018: Guest Editor, *Applied Network Science Special Issue of the 7th Intl. Conf. on Complex Networks*

Conference Organisation

- 2025: General Chair, *International School and Conference on Network Science (NetSci)*, Maastricht, The Netherlands

Workshop Organisation

- 2021: Researching Adult Content Creators on Digital Platforms (with C. Goanta), Maastricht
2019: Network Reconstruction Science-athon (with A. Bovet et al.), Beaumont, Belgium
2018: Winter Workshop on Complex Systems 2018 (with S. Selakovic, Q. Feng, J. Garcia-Bernardo), Utrecht
2016: Belgian Network Research Meeting (BeNet) 2016 (with S. Béreau, J-C. Delvenne et al.), Louvain-la-Neuve
2016: CCS workshop on Coarse-graining Complex Systems (with M. Faccin, R. Lambiotte, M. Schaub), Amsterdam
2015: NetSci workshop on Statistical Inference for Network Models (with A. Clauset, A. Z. Jacobs, D. Larremore), Zaragoza

2014: NIPS workshop on Networks: From Graphs to Rich Data (with E. Airoldi, D. Choi, A. Clauset, J. Ugander), Montreal
2014: NetSci workshop on Statistical Inference for Network Models (with A. Clauset, A. Z. Jacobs, D. Larremore), Berkeley

Technical Program Committee Member.....

2022–2025: (Senior PC) AAAI Conference on Web and Social Media (ICWSM)
2024: Conference on Complex Systems (CCS), IC₂S₂
2022: ACM/IEEE Advances in Social Network Analysis and Mining (ASONAM)
2020–2024: International School and Conference on Network Science (NetSci-X)
2017–2026: International School and Conference on Network Science (NetSci)
2016–2022: AAAI Conference on Artificial Intelligence (AAAI)
2021: ACM SIGKDD Conference on Knowledge Discovery and Data Mining
2021: International Workshop on Social Sensing (SocialSens)
2017–2021: The Web Conference (formerly WWW)
2016–2021: ACM International Conference on Web Search and Data Mining (WSDM)
2016–2020: AAAI Conference on Web and Social Media (ICWSM)
2017–2024: International Conference on Complex Networks and their Applications
2018–2021: International Conference on Complex Networks (CompleNet)
2014, 2020: ACM Web Science Conference (WebSci)
2019: International Workshop on Machine Learning with Graphs (MLG)
2017–2018: International Conference on Social Informatics (SocInfo)
2018: International Workshop on Dynamics on and of Networks (DYNO), SIAM Workshop on Network Science (NS)
2017: Workshop on Data Science for Human Performance in Social Networks
2015: SDM Workshop on Mining Networks and Graphs
2010–2012: International Conference on Information Fusion (FUSION)

Journal Reviewer.....

Algorithms, Applied Network Science, BMC Bioinformatics, Canadian Journal of Experimental Psychology, 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 Computational Biology, PLOS One, PNAS, Proceedings of the IEEE, Proceedings of the Royal Society A, Proceedings of the Royal Society B, 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 Assessment.....

2024: X. Liu (Adv: Eduardo Altmann), Mathematics and Statistics, University of Sydney
2023: M. Contisciani (Adv: Caterina De Bacco), Mathematics and Natural Sciences, U. of Tübingen
2022: S. Morel-Balbi (Adv: Tiago Peixoto), Mathematical Sciences, University of Bath
2021: R. Runghen (Adv: Daniel B. Stouffer), Biological Sciences, University of Canterbury

Master Thesis Assessment.....

2024: 2 students, Business Intelligence and Smart Services, UM:
I. Hernandez Mariscal (Adv: D. Ferenczi), M. Pham (Adv: D. Ferenczi)
2023: 4 students, International Business, UM:
G. Peper (Adv: R. Cerina), M. Mandilaras (Adv: R. Cerina), H. Molingen (Adv: R. Suurmond), M. Vahedimoghaddam (Adv: R. Cerina)
2022: 4 students, International Business, UM:

M. Sears Gil (Adv: R. Cerina), N. Windmüller (Adv: R. Triepels), C. Leutbecher (Adv: B. Can), H. Li (Adv: R. Cerina)
2022: 3 students, Business Intelligence and Smart Services, UM:
T. Gadet (Adv: R. Cerina), A. Schmeitz (Adv: R. Muller), L. Xuereb (Adv: R. Muller)
2021: 3 students, Business Intelligence and Smart Services, UM:
A. Mazzoni (Adv: R. Muller), Z. McGovern (Adv: P. Theunissen), R. Notarangelo (Adv: H. Schmitt)
2020: 2 students, Business Intelligence and Smart Services, UM:
C. Kang (Adv: R. Kessels), A. Przybylski (Adv: V. Urovi)

Internal Committees

2025: Master Thesis Assurance of Learning panel, MSc in Econometrics and Operations Research
2024: Assurance of Learning internal audit, BSc in Business Analytics

Other Service Roles

2023, 2025: NWO committee member, VIDI Science domain
2023: Assessment committee member, Amrapali Zaveri Awards for Data Science
2021: NWO Jury, Open Technology Programme, Applied and Engineering Sciences
2020–2025: Tutorial Chair, International Conference on Complex Networks and Their Applications
2020: Mentor, Society of Young Network Scientists Workshop
2018–2022: Steering committee member, Winter Workshop on Complex Systems
2018–2019: Publicity Chair, International Conference on Complex Networks and Their Applications
2017–2018: Advisory panel member, W. England Academic Health Science Network Digital Engagement Platform
2016–2019: Elected council member, Complex Systems Society

Student Advising

Doctoral Students

2025–Present: J. Bittar, School of Business and Economics, Maastricht University
2025–Present: R. Ottow (with J. Palmer), Pompeu Fabra University
2024–Present: Y. Asgari (with A. Bovet), University of Zurich
2024–Present: C. Tamang, School of Business and Economics, Maastricht University
2024–Present: Y. Zhou, School of Business and Economics, Maastricht University
2024–Present: D. Ferenczi, School of Business and Economics, Maastricht University
2021–Present: M. She, School of Business and Economics, Maastricht University
2021–Present: J. Li, School of Business and Economics, Maastricht University
2017–2019: M. Cinelli (with A. Iovanella), University of Rome Tor Vergata
2016–2019: L. Gutierrez Gomez (with J-C. Delvenne), ICT EAM, UCLouvain
2015–2016: A. Ghasemian (with A. Clauset), Computer Science, CU Boulder

Master Students

2026: 1 student, Information Management and Business Intelligence, Maastricht University
D. Henze
2023: 1 student, Information Management and Business Intelligence, Maastricht University
S. de Cuba
2022: 1 student, Information Management and Business Intelligence, Maastricht University
T. Luo
2022: 1 student, Digital Business and Economy, Maastricht University
I. Aydeniz
2022: 9 students, Business Intelligence for Smart Services, Maastricht University
N. Andrade, V. Chinna Reddy, T. Abo Saleh, J. Reichel, N. Lardenoije, G. Feijoo Bleda, S. Tapia Stocker, L. Capitani, P. Gitu

2021: 8 students, Business Intelligence for Smart Services, Maastricht University
H. Othman, A. Corral, S. Yacoubi, J. Hu, L. Hartleb, D. Bernhardt, D. Cowen, G. Hoefstaders
2011: 1 student, BAE Systems ATC (intern) / Engineering Mathematics, University of Bristol
K. Kowalska

Undergraduate Students.....

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

Teaching

University Courses at Maastricht University.....

2023–2026: Networks and Simulation EBC2184 (Undergraduate) – Lecturer/Coordinator
2025: Network Science KEN4275 (Graduate) – Guest Lecturer
2021–2024: Introduction to Global Studies (Quantitative Methods) GLO1221 (Undergraduate) – Lecturer/Coordinator
2021–2023: Research Methods for Economy & Environment II GLO1521 (Undergraduate) – Lecturer/Coordinator
2020–2021: Machine learning for smart services EBC4255 (Graduate) – Lecturer/Coordinator
2021: Research Methods for Economy & Environment I GLO1421 (Undergraduate) – Lecturer/Coordinator
2021: Building and Mining Knowledge Graphs KEN4256 (Graduate) – Guest Lecturer
2020: Introduction to Global Studies (Methods track) GLO1101 (Undergraduate) – Lecturer

University Courses at Other Institutions.....

2017–2019: Algorithms in data science LINMA 2472 (Graduate) – Lecturer/Coordinator, UCLouvain
2015: Integer Programming LINMA 2450 (Graduate) – Teaching Assistant, UCLouvain
2014: Algorithms CSCI 3014 (Undergraduate) – Guest Lecturer, University of Colorado
2013–2014: Networks CSCI 5352 (Graduate) – Guest Lecturer, University of Colorado

Tutorials and Short Courses.....

2022–2025: Graph models and hypothesis testing, Community detection, Link prediction – Summer School Utrecht on Network Science, Utrecht University, Netherlands
2020: Introduction to Network Science – IDS Training Day, Maastricht University, Netherlands
2018–2019: Network inference in practice – Mediterranean School of Complex Networks, Salina, Italy
2017: Philosophy and practice of community detection – Winter Workshop on Complex Systems, Petnica Science Centre, Serbia; AsCII Tutorial Seminar, UCLouvain, Belgium

Outreach

2016–2020: **DataBeers Brussels** – Founder and Organiser
with J. Grujic, J. Loeckx, E. Vanwalleghem, M. Hargitt and R. R. 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:* Piaa 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 Quæk
- 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 Kurzer
- May 2017 – *Speakers:* Winnie Poncelet, Shamma Raghib, Daniel Perez, Bavo Van den Heuvel
- November 2016 – *Speakers:* Christina Makarona, Pierre Deville, Marc Vael, Pieter Colpaert

Professional Development

Schools and Courses Attended

- 2024: Leadership and undesirable behaviour, Leadership academy, Maastricht, NL
- 2022: Effective Supervision of PhD Students, ElroyCOM Training, Maastricht, NL
- 2015: Mediterranean School of Complex Networks, Sicily, IT
- 2014: Summer Teaching as Research Institute for Post-docs in Engineering (STRIPE), University of Colorado, Boulder, CO, USA
- 2014: Complex Systems Summer School, Santa Fe Institute, Santa Fe, NM, USA
- 2011: Machine Learning Summer School, MLSS Series, Bordeaux, France
- 2008: Pattern Analysis and Time Series Modelling, Aston University, Aston, UK
- 2006: Simultaneous Localisation And Mapping Summer School, SLAM Summer School Series, Oxford, UK
- 2006: PRINCE 2 Foundation and Practitioner Project Management, OCG, UK

Other Employment

- 2006: Database Developer, **Orange**, Bristol, UK
- 2005: Process Analyst / Database Developer, **HBOS Financial Services**, Bristol, UK
- 2005: Credit Control Assistant, **Ultimate Finance**, Bristol, UK
- 2005: Finance Assistant, **Royal Bank of Scotland**, Bristol, UK
- 2004–2005: Payments Administrator, **Clerical Medical**, Bristol, UK
- 2002–2004: Bar Tender and Relief Manager, **Clyde Arms**, Bristol, UK
- 2002: Sales and Marketing Representative, **Barclaycard**, Bristol, UK
- 2001–2002: Model, **Nemesis Modelling Agency**, Birmingham, UK
- 2001–2002: Sandwich Artist, **Subway Sandwiches**, Bristol, UK
- 1999–2001: Customer Services General Assistant, **Homebase Ltd**, Birmingham, UK
- 1999–2000: Administrative Assistant, **GKN Plc Group Headquarters**, Redditch, UK
- 1995–1997: Word Processor and IT Support, **Anne McCarthy**, Birmingham, UK