Nikolaos Aletras

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Research Interests

Natural language processing • Data Science • Social media analysis • Machine Learning

Professional Experience

2019	Lecturer in Natural Language Processing, Computer Science Department, University of Sheffield, UK
2018-pres	Lecturer in Data Science, Information School, University of Sheffield, UK
2015-2018	Applied Scientist, Amazon Research, UK
	Member of the Core Machine Learning and Alexa teams.
2015	Data Scientist (Consult.), SONR News Limited, UK
2015	Research associate, University College London, UK
2014-2015	Research associate, University of Sheffield, UK
2011-2013	Research assistant, University of Sheffield, UK
2008-2010	Teacher of Informatics, Greece

Education

2011-2014	РнD in Computer Science, University of Sheffield, UK
2010-2011	MSc in Advanced Computer Science, University of Sheffield, UK
2002-2007	BSc in Computer Science, University of Crete, Greece

Key Publications

JOURNAL PAPERS

2017	N. Aletras, T. Baldwin, J. H. Lau and M. Stevenson (2015). Evaluating Topic Representations
	for Exploring Document Collections. Journal of the Association for Information Science and
	Technology (JASIST).

N.Aletras, D. Tsarapatsanis, D. Preoţiuc-Pietro, V. Lampos (2016). Predicting Judicial Decisions of the European Court of Human Rights: A Natural Language Processing Perspective. PeerJ Computer Science.

D. Preoţiuc-Pietro, S. Volkova, V. Lampos, Y. Bachrach, N. Aletras (2015). Studying User Income through Language, Behaviour and Affect in Social Media. PLOS ONE.

A. Gonzalez-Agirre, N. Aletras, G. Rigau, M. Stevenson and E. Agirre (2015). Why are these similar? Investigating item similarity types in a large Digital Library. Journal of the Association for Information Science and Technology (JASIST).

CONFERENCE PAPERS

- A. Tsakalidis, N. Aletras, M. Liakata, A. Cristea (2018). Nowcasting the Stance of Social Media Users in a Sudden Vote: The Case of the Greek Referendum. In CIKM.
- N. Aletras, B. P. Chamberlain (2018). *Predicting Twitter User Socioeconomic Attributes with Network and Language Information*. In ACM HT (short).
- I. Soroduc, J. H. Lau, N. Aletras, T. Baldwin (2017). *Multimodal Topic Labelling*. In EACL (short).
- N. Aletras, A. Mittal (2017). *Labeling Topics with Images using Neural Networks.* In ECIR (short).
- V. Lampos, N. Aletras, J. K. Geyti, B. Zou, I. J. Cox (2016). *Inferring the Socioeconomic Status of Social Media Users based on Behaviour and Language*. In ECIR (short).
- D. Preoţiuc-Pietro, V. Lampos and N. Aletras (2015). An Analysis of the User Occupational Class through Twitter Content. In ACL.
- N. Aletras, T. Baldwin, J. H. Lau and M. Stevenson (2014). Representing Topics Labels for Exploring Digital Libraries. In Digital Libraries 2014 (JCDL).
- N. Aletras and M. Stevenson (2014). *Labelling Topics using Unsupervised Graph-based Methods*. In ACL (short).
- V. Lampos, N. Aletras, D. Preoţiuc-Pietro and T. Cohn (2014). *Predicting and Characterising User Impact on Twitter.* In EACL.
- N. Aletras and M. Stevenson (2014). *Measuring the Similarity between Automatically Generated Topics*. In EACL (short).
- N. Aletras and M. Stevenson (2013). Representing Topics Using Images. In NAACL-HLT.

Full List: http://nikosaletras.com/publications.html

ing them for final exams in coding and maths.

Teaching & Mentoring

2019	Natural Language Processing
2018	Introduction to Data Science
2018	Researching Social Media, Data Mining and Visualisation
2016, 2017	Guest Lectures, University of Warwick, UCL, Kingston Business School
2013, 2014	Lab demonstrator, Automata, Logic and Computation
2012	Lab demostrator, Advanced Java Programming
2008-2010	Teacher of Informatics (Licensed Private Tutor), Teaching high school students and prepar-

Interns at Amazon Research: Nicolas Knudde (University of Ghent, 2017) Other mentoring: Ionut Soroduc (University of Melbourne, 2016)

Grants

Innovating Next Generation Services through Collaborative Design, ESRC (£13,136, Co-I) 2018 Amazon Alexa Fellowship (one full-funded PhD Studentship), Amazon Alexa Fund (\$97,000, 2018 Co-PI) "Journalist-in-the-loop" project, Google DNI Fund (\$50,000, Co-I) 2018 AWS Credits Research Award (\$20,000, PI) 2018 Pump-Priming Vision & Language Research award (V&L Net: The EPSRC Network on 2013 Vision and Language, £2,000)

Honors & Awards

2016	"30 under 30" list of promising Greek Young Professionals, Kathimerini newspaper, Greece
2014	ACL 2014 Travel Award
2012	Google grant covering the registration in the Lisbon Machine Learning School (LxMLS
	2012)
2011-2014	Departmental Research Studentship, University of Sheffield
2011	The Inspec Solutions Ltd. Prize for the "Best Overall Performance" in MSc in Advanced
	Computer Science, University of Sheffield

Selected Press Coverage

- Twitter is "threatening" the pollsters, Kostas Zafeiropoulos, Efimerida ton Syntakton (+printed) 2018 (GR) Why a computer could help you get a fair trail, John Naughton, The Guardian (UK) 2017 AI predicts outcome of human rights cases, Jake Wakefield, BBC (UK) 2016 Artificial intelligence 'judge' developed by UCL computer scientists, Chris Johnston, The 2016 Guardian (+printed) (UK) Robot Justice: AI Predicts Outcomes of Human Rights Trials, Jacob Gershman, The Wall 2016 Street Journal (US) How Economists View the Rise of Artificial Intelligence, Jonathan Vanian, Fortune (US) 2016 Tweets Reveal a Twitter User's Income Bracket, Rachel Nuwer, Scientific American (+printed) 2015 (US)
- What you do on Twitter reveals how much money you make, Cristina Rivero, The Washing-2015 ton Post (US)
- How you talk on Twitter can tell the world how much money you make, Derrick Harris, For-2015 tune (US)

Invited Talks

Predicting Judicial Decisions with Natural Language Processing 2018 Invited talk at the symposium on "Justice System and Healthcare in the age of AI", Insti-

	tute of Philosophy, Seoul National University, Seoul
2018	Predicting Judicial Decisions with Natural Language Processing
	Invited talk at the "Legal Tech Congress" organised by the Flemish Bar Association, Brus-
	sels
2018	Predicting Judicial Decisions with Natural Language Processing
	Invited talk at the "Artificial Intelligence at the service of the Judiciary" organised by the
	European Commission for the Efficiency of Justice (CEPEJ), the Council of Europe and the
	Latvian Court Administration, Riga
2018	Oral evidence to the Technology and the Law Policy Commission
	The Law Society of England and Wales, London
2018	Labelling Topics Using Neural Networks
	Invited talk at Bloomberg, New York
2018	Learning Latent Vector Spaces of Text
	Invited talk at Toshiba Research Europe, Cambridge
2018	Predicting and Analysing Online User Behavior with Data Science
	Invited talk at the Research Seminar Series, Amazon Research, Cambridge
2018	Predicting Judicial Decisions with AI
	Invited talk at the "Future of the e-Justice in the EU and the new technologies in service
	of the judiciary" conference organised by the Bulgarian Presidency of the EU Council and
	the European Commission, Sofia, Bulgaria
2018	Learning Latent Vector Spaces of Text
	Invited talk at the Machine Learning Seminar Series, Mind Foundry, Oxford
2018	Predicting Judicial Decisions with AI
	Invited talk at the "Encoding Cultures Encoding Cultures: Living Amongst Intelligent Ma-
	chines" event, ZKM Karlsruhe, Germany
2018	Data mining for the Law
	Guest lecture, Computer Science Department, University of Warwick
2018	Predicting Judicial Decisions of the European Court of Human Rights
	Invited talk at the Department of Theoretical and Applied Linguistics, University of Cam-
	bridge
2017	Evaluating Machine Learning Algorithms
	Invited talk at Roundtable on Uses of Artificial Intelligence in the Criminal Justice System,
	University of Otago and UEHIRO Centre for Practical Ethics, University of Oxford
2017	Labelling Topics with Neural Networks
	Invited talk at the University of Cambridge
2017	Predicting Judicial Decisions of the European Court of Human Rights
	Invited talk at University College London
2017	Labelling Topics with Neural Networks
	Invited talk at the ReWork Deep Learning Summit, London
2017	An Introduction to Topic Models Cuest lecture at the University of Warryick
	Guest lecture at the University of Warwick
2017	Predicting User Demographics in Social Networks
	Guest lecture at University College London Predicting Judicial Decisions of the European Court of Human Pights
2017	Predicting Judicial Decisions of the European Court of Human Rights Invited talk at University of Leuven
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2017	Predicting User Demographics in Social Networks
	Invited talk at Imperial College London
2016	Predicting Judicial Decisions of the European Court of Human Rights
	Invited talk at King's College London
2016	Predicting User Demographics in Social Networks: Applications in Marketing
	Guest lecture at Kingston Business School
2016	An Introduction to Topic Models
	Guest lecture at the University of Warwick
2016	Predicting User Demographics in Social Networks
	Invited talk at the University of Warwick
2015	Interpreting Document Collections with Topic Models
	Invited talk at the University of Melbourne
2015	Interpreting Document Collections with Topic Models
	Invited talk at Amazon.com, Inc., Cambridge, UK
2015	Interpreting Document Collections with Topic Models
	Invited talk at the NLIP Seminar Series, Computer Laboratory, University of Cambridge

Professional Services

2018	Reviewer, NAACL, ICML, EMNLP, NIPS
2017	Reviewer, EACL, ACL
2016	Reviewer, EMNLP, NAACL, ACL
2015	Organiser, CIKM 2015 Workshop on "Topic Models: Post-processing and Applications"
2014	Student Volunteer, ACL 2014
2014	Reviewer, EMNLP
2013	Reviewer, EMNLP

Volunteering Services

2016-2017 Career Ready programme, Mentoring college students in Cambridge, UK.

References

Available upon request.

Last updated: December 12, 2018