Adham Beykikhoshk

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Education	**2013 – present PhD** in Computer Science, Deakin University, Australia Thesis: Knowledge Discovery and Probabilistic modelling of Onlnie Autism Spectrum Disorder Data Supervisors: Dr Dinh Phung, Dr Svetha Venkatesh, and Dr Ognjen Arandelović **2011 – 2012 MSc** with distinction in Artificial Intelligence, University of Southampton, United Kingdom Thesis: Viewpoint Invariant Gait Energy Detection Image using Microsoft Kinect Supervisors: Dr. Mahesan Niranjan, Dr. Mark S. Nixon, and Dr John N. Carter **2002 – 2007 BSc** in Electrical Engineering, KNToosi University of Technology, Iran Thesis: THESIS Supervisors: Dr. Ali Khaki Sedigh, Dr Houman Sadjadian
Research Interests	Statistical Machine Learning, Bayesian Statistics, Data Mining

Publications

1. Beykikhoshk, A., Phung, D., Arandelović, O., and Venkatesh, S. (2016). Analysing the History of Autism Spectrum Disorder using Topic Models. To appear in the proceedings of *IEEE International Conference on Data Science and Advanced Analytics (DSAA)*. IEEE.

2. Beykikhoshk, A., Phung, D., Arandelović, O., and Venkatesh, S. (2016). Discovering Topic Structure of a Temporally Evolving Document Corpus. To appear in Knowledge and Information Systems Journal. December 2015, *arXiv preprint arXiv:1512.08008*

3. Beykikhoshk, A., Arandelović, O., Phung, D., and Venkatesh, S. (2015). Overcoming Data Scarcity of Twitter: Using Tweets as Bootstrap with Application to Autism-Related Topic Content Analysis. In the proceedings of *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)*, pp. 1354-1361, IEEE. doi:10.1145/2808797.2808908.

4. Beykikhoshk, A., Arandelović, O., Phung, D., Venkatesh, S., and Caelli, T. (2015). Using Twitter to Learn About the Autism Community. In *Social Network Analysis and Mining*, 5(1), pp. 5-22. doi:10.1145/2808797.2808908

5. Beykikhoshk, A., Arandelović, O., Phung, D., and Venkatesh, S. (2015). Hierarchical Dirichlet Process for Tracking Complex Topical Structure Evolution and its Application to Autism Research Literature In the proceedings of *Pacific Asia Conference on Knowledge Discovery and Data Mining (PAKDD)*, pp. 550-562. Springer International Publishing. doi:10.1007/978-3-319-18038-0_43

6. Beykikhoshk, A., Arandelović, O., Phung, D., Venkatesh, S., and Caelli, T. (2014). Data-mining Twitter and the Autism Spectrum Disorder: A Pilot Study In the proceedings of *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)*, pp. 349-356. IEEE. doi:10.1109/ASONAM.2014.6921609

Publications

7. Ghofrani, Z., Mokhtarzade, M., Sahebi M.R., and Beykikhoshk, A. (2014) Evaluating Coverage Changes in National Parks using a Hybrid Change Detection Algorithm and Remote Sensing. In *Journal of Applied Remote Sensing*, 8(1), pp. 083646-083646. doi:10.1117/1.JRS.8.083646.

Teaching

An Introduction to Data Science, SIT112, Winter 2015, Deakin University
(It was the first time the course was being offered in Deakin University. The material I prepared, is still being used.)

An Introduction to Git, Winter 2016, Deakin Universoty, PRaDA

Employment

Mar 2009 - Sep 2011, Fakoor Meghnatis Spadana, IT Manager
No. 14, 20th Street, Qaem Maqam Street, Tehran, Iran

Feb 2010 - Sep 2011, Parsa International, IT Consultant
No. 5, Shabtab Street, North Qeytariyeh, Tehran, Iran

Sep 2010 - Sep 2011, Sadad Machine, IT Consultant
No. 12, North Razan Street, Mirdamad 13 Boulevard, Tehran, Iran

Jan 2007 - Nov 2008, Karino, IT Manager
No. 1488, Madani Street, Resalat Square, Tehran, Iran

Computer
Skills

Programming: C, C++, Python, Julia, Matlab, R

Visualization: D3.js, JavaScript

Distributed computing: Apache Spark, Hadoop

Document preparation: LaTeX, LyX

Software
Packages

BIAS.jl, https://github.com/adham/BIAS.jl
Bayesian Inference At Scale. It is a package written in Julia for Bayesian inference and modelling with large scale data.

BNP.jl, https://github.com/adham/BNP.jl
Bayesian Non-Parametrics. It is a package written in Julia for non-parametric Bayesian modelling.

Awards and
Scholarships

Full scholarship for PhD at Deakin University (Tuition fees + stippend)
NICTA

Tuition fees scholarship for MSc at University of Southampton
Aga Khan Foundation

References

Upon request