Adrin Jalali

Curriculum Vitae

Berlin, Germany
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github/adrinjalali

Experience

2018-present **scikit-learn**, *Core Developer*.

2019-2020 **Open Source Developer**, *Anaconda Inc.*, Berlin, Germany.
- scikit-learn
- fairlearn: a fairness in ML lib by Microsoft

2016-2019 **Machine Learning Consultant**, *Ancud IT*, Berlin, Germany.
- Machine Learning (scikit-learn, tensorflow, GPy, etc.)
- NLU/NLP (intent and entity recognition, conversation context, etc.)
- NoSQL (Cassandra, Elasticsearch, Solr)
- MLOps (PipelineIO: kubernetes, weave-scope, AWS, MS-Azure, docker, etc.)

2016 **Business Intelligence Developer**, *MisterSpex GmbH*, Berlin, Germany.
- TV-ad attribution model using Gaussian Processes
- Dynamic ordering of products on landing pages based on several KPIs
- Improving Google AdWords ad placement and bidding strategies

2012-2016 **PhD Candidate**, *Max Planck Institute for Informatics*, Saarbrücken, Germany.
- Interpretable Sparse methods for cancer associations using an ensemble of sparse support vector machines (SVMs)

2011-2012 **PhD Candidate**, *British Columbia Cancer Research Center*, Vancouver, Canada.
- Automated flow cytometry data analysis and visualization using dynamic programming, clustering, graph algorithms, and SVMs

2009-2011 **Team Lead**, *Tosan Intelligent Data Miners*, Tehran, Iran.
- Offline fraud detection and realtime fraud prevention on debit transactions

2008 **Programmer**, *Orado Group*, Tehran, Iran.

2006-2007 **AI and Statistics Programmer**, *Fidofa Software Group*, Tehran, Iran.
- Automated trading in Future stock market

2006 **Programmer**, *Sourena Software Group*, Tehran, Iran.

2005 **Programmer**, *Tarrah Sarv System*, Tehran, Iran.

Education

2012-Present **PhD (cont.) in Computer Science/Bioinformatics**, *Max Planck Institute for Informatics, Computational Biology and Applied Algorithmics Department*, Saarbrücken,Germany,
Dissertation Topic: Machine Learning in Cancer Diagnosis,
Degree anticipated: 2020.

2011-2012 **PhD in Bioinformatics**, *University of British Columbia, British Columbia Cancer Research Center, Terry Fox Laboratory*, Vancouver, Canada,
Topic: Automated analysis of flow-cytometry data.

2006-2009 **MSc in Computer Science**, *University of Tehran, School of Mathematics, Statistics, and Computer Science*, Tehran, Iran,
Thesis Topic: Finding DNA Motifs Using Bidirectional Recurrent Neural Networks.

2002-2006 **BSc in Computer Science**, *Tehran Polytechnic, Department of Mathematics, and Computer Science*, Tehran, Iran,
Thesis Topic: Design and Implementation of a Genetic Algorithm to Solve Time Table Scheduling of a School.

Service

2017-present **PyData Berlin coorganizer**, NumFocus, Berlin, Germany.

2015 **Chemistry, Physics, and Technology Section Representative**, *PhDnet steering group*, Max Planck Society, Germany.

2012 **Bioinformatics Representative**, *College for Interdisciplinary Studies Graduate Student Society*, University of British Columbia, Vancouver, Canada.

2012 **"Bioinformatics" and "British Columbia Cancer Agency Graduate Student and Post Doctoral Fellow Society" representative**, *Graduate Student Society*, University of British Columbia, Vancouver, Canada.

Languages

Persian **Native**

English **Fluent**

German **Intermediate (∼B2)**

Publications

1. Handl L, Jalali A, Scherer M, Pfeifer N., *Partially blind domain adaptation for age prediction from DNA methylation data*, arXiv preprint arXiv:1612.06650, 2016.
2. Jalali A., and Pfeifer N., *Interpretable per Case Weighted Ensemble Method for Cancer Associations*, BMC Genomics, volume 17, no. 1, 2016.
3. Courtot M., Meskas J., Diehl A. D., Droumeva R., Gottardo R., Jalali A., Taghiyar M.J., *flowCL: ontology-based cell population labelling in flow cytometry*, Bioinformatics 31, no. 8 (2015): 1337-1339.
4. Jalali A., and Pfeifer N., *Interpretable per Case Weighted Ensemble Method for Cancer Associations*, Algorithms in Bioinformatics, pp. 352-353. Springer Berlin Heidelberg, 2014.
5. O'Neill K.*, Jalali A.*, Aghaeepour N.*, Hoos H.H., and Brinkman R.R., *Enhanced flowType/RchyOptimyx: A Bioconductor pipeline for discovery in high-dimensional cytometry data*, Bioinformatics (2014), doi: 10.1093/bioinformatics/btt770.
6. Jalali A.*, Aghaeepour N.*, O'Neill K., Chattopadhyay P.K., Roederer M., Hoos H.H., Brinkman R.R., *RchyOptimyx: cellular hierarchy optimization for flow cytometry*, Cytometry Part A 81, no. 12 (2012): 1022-1030.
7. Aghaeepour N., Chattopadhyay P.K., Ganesan A., O'Neill K., Zare H., Jalali A., Hoos H.H.,

Roederer M., and Brinkman R.R., *Early Immunologic Correlates of HIV Protection can be Identified from Computational Analysis of Complex Multivariate T-cell Flow Cytometry Assays*, Bioinformatics, 2012: 28(7):1009–1016.

8. Rezaei F.*, Jalali A.*, Memarian H., *Estimation of Compressional and Shear Wave Velocities using Adaptive Neuro-Fuzzy Inference System, in some of dam sites in south west of Iran*, Journal of the Earth, Tehran, Iran, 2009.
9. Behsaz B., Jalali A., Janzadeh H., Jouyandeh M.R.., Molazem F., Rahimi A., Salehi A., and Tavakoli Ghinani M., *Team Description of S.O.S. 2005*, Proceedings CD RoboCup 2005, Osaka, Japan, 2005.
10. Tashakori M., Jalali A., Jooyandeh M.R., Gholami A., Behzadian A., Ghasemloo K., Esfahbod B., *Rayan Team Strategy Description*, Proceedings CD RoboCup 2004, Lisboa, Portugal, 2004.
11. Shiri M.E., Jalali A., Jooyandeh M.R., Roshandel Tavana R., Behzadi M., *AUTRescue Team Strategy Description*, Proceedings CD RoboCup 2003, Springer-Verlag, Padova, Italy, 2003.

* co-authors contributed equally