Adrin Jalali

Curriculum Vitae

Berlin, Germany
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Experience

2018-present **scikit-learn**, *Core Developer / Technical Committee*.

2020-present **fairlearn**, *Core Developer / Steering Committee*.

2022-present **skops**, *Core Developer / Creator*.

2022-2023 **PyData Integration Lead**, *HuggingFace*, Remote.
- Create and maintain skops: Deployment related tools when it comes to scikit-learn models.
- Maintain scikit-learn and fairlearn

2020-2021 **Senior Applied Scientist**, *Zalando SE*, Berlin, Germany.
- Center of Excellence for Algorithmic Privacy and Fairness
  - Assess and deploy model cards across the organization
  - Consult teams understand and mitigate ethical related risks
  - Lead an internal audit to assess potential risks and harms in certain models and processes

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

2016-2019 **Senior Machine Learning Consultant**, *Ancud IT*, Berlin, Germany.
- **Tech Lead** - A large energy company
  - Home appliance disaggregation from main meter readings
- **Team Lead** - A large telecommunication company
  - ML team for a smart speaker project

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 **VP Fraud Detection Product**, *Tosan Intelligent Data Miners*, Tehran, Iran.
- Offline fraud detection and real-time fraud prevention on debit transactions

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

Education

2012-2021 **PhD (cont.) in Computer Science/Bioinformatics**, *Max Planck Institute for Informatics, Computational Biology and Applied Algorithmics Department*, Saarbrücken,Germany,
Dissertation Topic: Interpretable Methods in Cancer Diagnosis .

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.

Publications

1. Weerts H, Dudík M, Edgar R, Jalali A, Lutz R, Madaio M. *Fairlearn: Assessing and Improving Fairness of AI Systems*, arXiv preprint arXiv:2303.16626. 2023.
2. Handl L, Jalali A, Scherer M, Eggeling R, Pfeifer N. *Weighted elastic net for unsupervised domain adaptation with application to age prediction from DNA methylation data*. Bioinformatics. 2019 Jul 15;35(14):i154-63.
3. Jalali A., and Pfeifer N., *Interpretable per Case Weighted Ensemble Method for Cancer Associations*, BMC Genomics, volume 17, no. 1, 2016.
4. 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.
5. Jalali A., and Pfeifer N., *Interpretable per Case Weighted Ensemble Method for Cancer Associations*, Algorithms in Bioinformatics, pp. 352-353. Springer Berlin Heidelberg, 2014.
6. 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.
7. 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.
8. 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.

* co-authors contributed equally