AMIN SHIRAZI

Ames, Iowa

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PROFESSIONAL SUMMARY

- 4+ years industry experience in data analysis in research and development department of 3 companies, 1+ years consultant experience in industry and academia
- Successfully collaborated with sales, marketing, customer service and logistic departments
- Advanced computer skills to write objective-oriented codes with R and SAS
- Successfully developed an R package (PetFindr) in collaboration with 4 graduate students
- PhD student with bachelor and master background in statistics
- Executive committee of STATCOM, currently working with Ames Public Library

TECHNICAL AND ADVANCED COMPUTER SKILLS

- Numerical and Data Analysis: R, SAS, JMP, currently learning SQL, Spark and Scala
- Reporting: LaTeX, Markdown, Sweave (integration of R codes into LATEX), HTML, Shiny
- Content Management: Git

EDUCATION

Doctor of Philosophy (PhD), Statistics   **Aug. 2017 – anticipated 2022**
Department of Statistics,
Iowa State University (ISU), Ames, IA

Master of Science (MSc), Mathematical Statistics   **Sep. 2011 – Feb. 2014**
Department of Statistics, Faculty of Mathematical Science,
Shahid Beheshti University, Tehran, Iran

Bachelor of Science (BSc), Statistics   **Sep. 2006 – Sep. 2010**
Department of Statistics,
Faculty of Science, IKIU, Qazvin, Iran

EXPERIENCE

Big Data Research Assistant   **Aug. 2017 - present**
Department of Statistics, Iowa State University, Ames, Iowa

- Statistical Data Analysis of big data: Applying integrated data analysis on -Omics data using a range of network based and Bayesian based methods
- High dimensional data sets cleaning utilizing SQL and R
- Associated with aerospace department for statistical data analysis in two industrial projects
- Course instructor of record for Engineering Statistics https://ashirazist.github.io/stat305.github.io/index.html with approximately 70 undergraduate students (Fall 2019)
- Course co-instructor for Statistical Theory for Research with 30 graduate students (Spring 2019)
- Teaching assistant for Probability and Statistics for Computer Science, Introduction to Business Statistics and Engineering Statistics with 75 undergraduate students in average (Fall 2017 – Fall 2018)

Stock Market Research Assistant   **Mar. 2014 – Jan. 2017**
Shahid Beheshti University, Tehran, Iran

- Leader of a research group of 6 graduate and undergraduate students to gather, clean and analyze stock market data
- Model selection for stock market data using statistical hypothesis testing
- Utilized statistical methods to 100+ stock market data sets using R to evaluate model robustness
- Diagnosed model insufficiency

PACKAGE DEVELOPMENT

PetFindr provides an R interface for the Petfinder.com API (V2). Once a user obtains an API key and secret from Petfinder, this package allows the user to retrieve information about animals by type, breed, location, and other useful characteristics. This package was developed in a team of the five of us at Iowa State University as a part course project.(https://earl88.github.io/PetFindr/index.html)

JOB EXPERIENCE

Data Analyst, R&D department   **July 2015 – July 2017**
Koosha Setareh Iranian International Co, Tehran, Iran
- Benefited statistical skills to interpret market data in corporation with sales and marketing department
- Fitted generalized linear model to data from market research
- Supervised and accurately predicted demands for products and services
- Sales analysis and predicting future trends using data analytical methods
- Generated creative business reports, tables, charts, and graphs for the logistic department and management board

Data Analyst, R&D department   **Sep. 2014 – June 2015**
Iranian Shaygan Pars, Tehran, Iran
- Interpreted sales data applying statistical models as a teamwork with sales department
- Presented results to senior managers and regulatory authorities
- Forecasted demands for products and services
- Collected data to monitor levels of progress in sales and customer satisfaction

Statistical Consultant and Data Analyst   **May 2014 – Sep. 2014**
Info Tech International Company, Tehran, Iran
- Designed opinion polls to collect and analyze data using SAS
- Programmed software codes to identify trends and relationships within the data utilizing R
- Conduct tests for big data validation using statistical knowledge and analytical methods and
- Design of experiment methods in optimization
- Call center consultant for designing, collecting and analysis of customer satisfaction survey

Director Consultant and Technical Instructor   **Sep. 2011 – Apr. 2012**
Mahestan Educational Institute, Tehran, Iran
- Instructor of statistical core courses, approximately 100 undergraduate students
- Student consultant

SERVICE AND LEADERSHIP SKILLS

Statistics in the Community (StatCom) Executive Committee   **Aug. 2019 – present**
Department of Statistics, Iowa State University, Ames, Iowa
STATCOM at Iowa State offers statistical advice and expertise free of charge to governmental and nonprofit groups in the local community
- Currently working on a project with Ames Public Library to conduct and analyze a survey on their services to library members

Statistics faculty committee - student representative   **Aug. 2019 – present**
Department of Statistics, Iowa State University, Ames, Iowa
- Communicate relevant information from the student association to the faculty members
- Provide students' feedback of the departmental decisions

Iranian Students and Scholars' Association, Treasurer, ISU   **Aug. 2018 – Aug. 2019**
- Event planner for 5 big events for the members of the association and non-Iranian people
- Organized the new year celebration event and hosted approximately 300 people
- Communicated with finance committee and senate of Iowa State University for funds to hold events

PROFESSIONAL AFFILIATIONS
- American Statistical Association (ASA), Institute of Mathematical Statistics (IMS)
- Iranian Statistical Society (ISS)