

AMIR BABAEIAN

(858)·228·7952 ◇ ababaeian@ucsd.edu

Water Street

Brooklyn, NY 11201

TECHNICAL STRENGTHS

Background	Machine Learning, NLP, Graph Clustering, Optimization, Algorithm Design
Computer Languages	SCALA, C++, MATLAB, R
Big data frameworks	Spark, Hadoop, AWS
Tools	Vim, Linux, SQL, Git

EDUCATION

University of California, San Diego PhD in Computational Mathematics & Statistics Overall GPA: 3.98	<i>August 2015 Expected</i>
Columbia university, data science institute Researcher	<i>January-March 2015</i>
University of California, San Diego M.Sc. in Statistics Overall GPA: 3.98	<i>August 2013</i>
University College London, London, UK One year program in Machine Learning	<i>September 2010</i>
AmirKabir University of Technology, Tehran, Iran M.Sc. in Electrical Engineering Overall GPA: 16.68/20	<i>February 2009</i>
University of Mazandaran, Babol, Iran B.Sc. in Electrical Engineering Overall GPA: 16.01/20	<i>September 2006</i>

EXPERIENCE

Big Data Company <i>Senior Machine Learning & Big Data Engineer</i>	April 2015 - Present NYC, NY
<ul style="list-style-type: none">· Building a probabilistic natural language processing software in Scala on top of apache spark in Terascale· Designing a self-curing entity resolution & curation engine· Recommender based online shopping system using customers behaviors and transactional data in Terascale	
UC San Diego <i>Machine learning researcher</i>	September 2011 - January 2015 San Diego, CA
<ul style="list-style-type: none">· Designing and implementing Community detection algorithm in large graphs in R· Designing and implementing interactive learning algorithm for online advertising in R· Designing and implementing Clustering algorithm for high dimensional data like video sequences(Manifold Learning)· Designing and implementing statistical language models for entity resolution in Scala	

SELECTED PUBLICATIONS

Mean shift-based object tracking with multiple features, 41st Southeastern Symposium on System Theory, 2009

Angle constrained path for clustering of multiple manifolds, International Conference in Image Processing, ICIP 2015

Nonlinear subspace clustering Using Curvature Constrained Path, Journal of Pattern Recognition

Consistency of Hierarchical Clustering in the Stochastic Block-model, Journal of Pattern Recognition

Multi-Manifold learning and clustering using constrained path, Journal of Machine Learning research

TEACHING EXPERIENCE

Vector Calculus and Geometry, Fall 2013 and Spring 2014 at UC San Diego

Linear Algebra, Spring 2013 and Winter 2014 at UC San Diego

Applied Statistics, Fall 2012 and Winter 2013 at UC San Diego

Signals and Systems, Fall 2005 at University of Mazandaran

AWARDS AND HONORS

Ranked first in statistics qualification exam among all the students in the department of Mathematics at UC San Diego.

Ranked 3rd among other graduating students in the major of electronics at university of Mazandaran by a GPA of 16.01/20 in 2006

One of the top 0.5 percent students among more than 400000 participants in the university entrance exam for B.Sc. degree in Iran.