

# Omar Ali Al-Naimi

**Phone:** 917-684-4888

**E-mail:** oalnaimi@capellauniversity.edu

**LinkedIn:** <https://www.linkedin.com/in/omar-al-naimi-a2121130/>

## SKILLS

---

**Data science specialist:** Subject matter experience in medicine, clinical and lab research, health care management, and epidemiology.

**Data science tools:** Programming languages - Python, R, SQL, and Linux.

**Business Intelligence tools:** Microsoft office, Tableau, and Microsoft BI desktop.

**Soft skills:** Strategic thinking, problem framing, teamwork, stress management, and inter-disciplinary communication.

## EDUCATION

---

### Capella University

Doctoral program in Public Health (Epidemiology), April 2015

### The University of Illinois at Chicago

Biomedical and Health Informatics Master Degree, August 2014 (GPA 3.7)

- The Master of Science in Health Informatics coursework emphasizes the analysis, implementation and ongoing management of the critical factors that impact the successful selection and use of health care information technologies

### The University of Baghdad / Medical College

MD Degree (M.B.CH.B), (GPA 3.05)

### The University of Texas at Austin

Health Informatics and Health Information Technology Certificate, Spring 2015

- Operational Models of Healthcare Practice; Workflow, Process Redesign and Project Management; and Electronic Health Records and Health Information Exchange laboratory
- EHRs, including Allscripts, athenahealth, Cerner, eClinicalWorks, e-MDs, Greenway; HIEs including Orion and ICA; LabCorp orders and results; STC immunization registry; HL7 message creation; data analytics (MS SQL Server and Access); EHR data structure and configuration

## CERTIFICATIONS

---

**Springboard:** Data Science Follow, 2017

**Digital iTechnology:** Server admin (Linux) Follow, 2016

**Hopkins University:** Data scientist's Toolbox, July 2015

**Peking University:** Bioinformatics, December 2014

- The concepts and computational methods of bioinformatics and their applications in biology
- Sequence alignment, Sequence database search, and Markov Model and Hidden Markov Model
- Next generation sequencing(NGS): reads mapping & variants calling, Functional prediction of genetic variants, NGS RNA-Sequences and transcriptome analysis, Prediction and analysis of noncoding RNAs, and Ontology and pathway identification
- Bioinformatics' database and software resources
- Case study I--Origination and evolution of new genes, Case study II--Evolution function analysis of DNA methyltransferase

**Hopkins University:** Case-Based Biostatistics certificate, September 2013

**The City University of New York:** Biostatistics using R programming language and JMP, May 2013

**The Allied Business Schools, Inc.:** Electronic Health Records Certificate (McKesson HER), January 2013

**The Iraqi National Center of High Studies:** Computer and Information Technology Certificate, April 2007

## DATA SCIENCE PROJECTS

---

- 1- Regression and classification model development and maintenance for predicting hospital readmission, medical claim fraud, and people at risk of acquiring chronic diseases (projects on obesity, hypertension, and stress).
- 2- Utilizing Machine Learning algorithms to extract insights from complex (intervened) data of epidemiology, behavior, sociology, and management studies.

## EXPERIENCE

---

### **Analyst Specialist, Accenture**, Austin, TX 09/2017-Present

- Machine Learning project.
- Developing and applying policies.
- Training different machine learning algorithms and testing them on labeled big data objects.
- Evaluating, improving, and maintaining different algorithms for future use.

### **Prior Authorization Specialist, Accenture**, Austin, TX 12/2015-09/2017

- Authorizing medical service using Phoenix program.
- Conducted action research on workflow, discovered hidden problems, reduced required work hours.
- Proposed method for improving letters generation, reduced the required time 75%, and the errors to 0%.
- Experiment design, and action research.
- Analytics and reporting using Microsoft office.

### **Research Assistant, Columbia University**, New York, NY 02/2011- 02/2012

Behavioral and experimental therapeutics experiments, collected, analyzed data, prepared presentations.

### **Research Assistant, CUNY Research Foundation**, New York, NY 10/2008- 06/2012

Created study design, conducted rat surgery, collected, analyzed, and reported arterial and nerve data, taught, trained and supervised the students, prepared of posters and Information for seminar presentation. The achieved goal was publication in medical journal.

### **Research Assistant, Lehman College/CUNY**, New York, NY 01/2008-present

Designed experiments, collect and analyzed data, prepared the articles for Journal Club, taught, trained and supervised the students for Research field. The achieved goals were three publications in scientific journals.

## PUBLICATIONS

---

- Simonelli, L.A., Delevan, C.J., Al-Naimi, O.A., and Bamshad, M. (2010). Female tactile cues maximize paternal behavior in prairie voles. *Behavioral Ecology and Sociobiology*. Behav Ecol Sociobiol (2010) 64:865-873.
- Muntzel, M.S., Al-Naimi, O.A., Barclay, A., and Ajasin, D. (2012). The cafeteria diet increases fat mass and chronically elevates lumbar sympathetic nerve activity in rats. *Hypertension*. doi: 10.1161/HYPERTENSIONAHA.112.194886
- Rodriguez NA, Legzim KM, Aliou F, Al-Naimi OA, and Bamshad M.Does. (2013). mating prevent monogamous males from seeking other females? A study in prairie voles (*Microtus ochrogaster*). *ScienceDirect*. Doi: doi: 10.1016/j.beproc