

(Alexander) Niema Moshiri

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Bioinformatics and Systems Biology niemamoshiri@gmail.com
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EDUCATION **University of California, San Diego**

Ph.D. Student in Bioinformatics and Systems Biology, 4.000 (expected June 2019)

– Advisors: Siavash Mirarab and Pavel Pevzner

B.S. in Bioengineering: Bioinformatics, 3.624 (June 2015)

– Minor: Economics

Online Courses/Certifications

Bioinformatics Specialization Track (Pavel Pevzner & Phillip Compeau)

Machine Learning (Andrew Ng)

HONORS AND AWARDS 2017 Distinguished Teaching Award, UC San Diego
2017 Registration Award, Society for Molecular Biology and Evolution
2015 Distinguished Leadership/Service Award, UCSD BioEng. Dept.
2011–2015 Thurgood Marshall College Honors Program, UC San Diego
2011–2015 Provost Honors, UC San Diego

PUBLICATIONS N. Moshiri and L. Izhikevich, *Data Structures*, 2016.

TALKS AND CONFERENCES 2017 International Society for Computational Biology (ISMB)
The Era of Online Learning
2017 Society of Molecular Biology and Evolution (SMBE)
A two-state model of tree evolution and its applications to *Alu*
retrotransposition

RESEARCH EXPERIENCE 2016–2017 Phylogenetics and phylogenomics algorithms
Advisors: Dr. Siavash Mirarab and Dr. Pavel Pevzner
University of California, San Diego
2015–2016 Variant analysis in neurological disease
Advisor: Dr. Joe Gleeson
University of California, San Diego School of Medicine
2015–2016 Viral integration and structural variation in cancer
Advisor: Dr. Vineet Bafna
University of California, San Diego
2014–2016 Computational genomics in disease
Advisor: Dr. Terry Gaasterland
Scripps Institute of Oceanography — UC San Diego
2013–2013 Protein structure prediction via Direct Coupling Analysis
Advisors: Dr. Andreas Prlić and Dr. Phil Bourne
Skaggs School of Pharmacy — UC San Diego
2012–2012 Protein structure annotation in PyMOL
Advisor: Dr. Sara Nichols and Dr. Andrew McCammon
University of California, San Diego

TEACHING EXPERIENCE	2016 – 2017	Teaching Assistant, Bioinformatics Algorithms (Coursera)
	Spring 2017	Teaching Assistant, Advanced Bioinformatics Lab (BIMM 185)
	Fall 2016	Lecturer (Creator), Biology Meets Computing (CSE 180)
	Summer 2016	Instructor, Introduction to Bioinformatics (ThoughtSTEM)
	Spring 2016	Teaching Assistant, Current Issues in Bioinformatics (CSE 191)
	Spring 2016	Teaching Assistant, Biological Databases (CSE 182)
	Spring 2016	Teaching Assistant, Advanced Data Structures (CSE 100)
	Winter 2016	Teaching Assistant, Intro. to Bioinformatics Algorithms (CSE 282)
	Winter 2016	Teaching Assistant, Molecular Sequence Analysis (CSE 181)
	Winter 2016	Teaching Assistant, Advanced Data Structures (CSE 100)
	Spring 2015	Teaching Assistant, Genetics (BICD 100)
	Fall 2014	Teaching Assistant, Genetics (BICD 100)
	Fall 2014	Tutor, Design and Analysis of Algorithms (CSE 101)
	Summer 2014	Teaching Assistant, Principles of Microeconomics (ECON 1)
	Spring 2014	Teaching Assistant, International Trade (ECON 101)
	Spring 2014	Tutor, Introduction to Computer Science: Java (II) (CSE 8B)
	Spring 2014	Teaching Assistant, Genetics (BICD 100)
	Winter 2014	Teaching Assistant, Genetics (BICD 100)
	Winter 2014	Tutor, Introduction to Computer Science: Java (I) (CSE 8A)
	Fall 2013	Tutor, Introduction to Computer Science: Java (I) (CSE 8A)
Fall 2013	Tutor, Basic Data Structures and OO Design in C++ (CSE 12)	
Summer 2013	Tutor, Basic Data Structures and OO Design in Java (CSE 12)	
EMPLOYMENT HISTORY	2011–2015	IT Assistant IV University of California, San Diego Extension
RELEVANT SKILLS	Coding: Languages:	Python, Java, C++, Bash, C, R, Matlab, LaTeX English, Farsi, Spanish (Conversational)
ORGANIZATION AFFILIATIONS	2015–2017	Graduate Bioinformatics Council (GBIC) at UCSD 2016–2017 Financial Officer 2015–2016 Vice President Internal
	2012–2015	Undergraduate Bioinformatics Club (UBIC) at UCSD 2014–2015 President 2013–2014 Administrative Officer
	2014–2015	Engineering World Health (EWH) at UCSD
	2013–2015	Society of Women Engineers (SWE) at UCSD
	2013–2015	Women in Computing (WIC) at UCSD