Nelson Johansen

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EDUCATION	**University of California, Davis** *Ph.D.* in Computer Science Advisor: Gerald Quon	*2020*
	Research Focus Leverage big-data genomic studies through absorbing Markov chains to simultaneously group compounds de novo and learn novel drug-gene targets reinforced by drug-drug community structure. Utilizing these learned targets and previous annotations to identify potentially synthetic lethal genes which are frequently visited on random walks between synergistic drug combinations.	
	University of California, Davis *B.Sc.* in Computer Science	2015
INVITED TALKS	Leveraging big data genomics for the inference of drug targets. **11th Annual Spotlight on Junior Investigators Cancer Research Symposium**, UC Davis Comprehensive Cancer Center.	2017
	The role of big data in genomics and medicine: predicting combination therapies to target genetic vulnerabilities in cancer. **38th Annual Institute on Research and Statistics**, CSU Sacramento.	2017
POSTER PRESENTATIONS	Predicting combination therapies to target genetic vulnerabilities in cancer. **Nelson Johansen**, Gerald Quon UC Davis DEB Retreat, Napa.	2017
	Network based strategy for predicting combinations of compounds. **Nelson Johansen**, Gerald Quon 22nd Annual Cancer Research Symposium, UC Davis Cancer Center & 3rd UC Davis Human Genomics Symposium	2017

COURSE WORK		
	Graph Theory	2017
	Machine Learning	2017
	Computational Methods in Systems and Synthetic Biology	2016
	Artificial Intelligence	2015

HONORS AND ACTIVITIES	
	UC Davis Dean's Honor List
	UC Davis Computer Science Tutor