

Aviv Bachan

CONTACT INFORMATION	800 Clark Way Palo Alto, CA 617-838-1791	avivbachan.weebly.com mountainbreez@gmail.com https://www.linkedin.com/in/aviv-bachan-45271924
SUMMARY	I am a broadly trained Earth scientist combining 8+ years of experience in geological research with strong data science skills.	
SKILLS	<ul style="list-style-type: none">• 1 yr programming experience with R (ggplot, lm, shiny, magrittr, tidyr, dplyr) and Python (pandas, scikit-learn, bokeh, mrjob).• 6 years programming experience with MATLAB (simulink, ode suite, curve fitting, optimization, system identification, signal analysis, statistics, parallel computing, and symbolic toolboxes).• Data Science skills: k-means clustering, decision trees, cross validation, Bayesian parameter estimation, MapReduce, Hadoop, Spark.• Spatial statistics: visualization (leaflet), spatial data operations (sp, rgdal), krigging, kernel density estimation.• Mathematical skills: spectral analysis, dynamical systems, linear algebra, Kalman filter, MCMC. Computer skills: git, github, SQL, XML, UNIX, L^AT_EX.	
PROFESSIONAL EXPERIENCE	Fellow at The Data Incubator, SF Sep 2016 - Nov 2016 <ul style="list-style-type: none">• TDI is a highly selective (4% admissions rate) data science bootcamp for PhDs looking to enter industry. Carried out multiple data science projects on topics such as social network analysis, time series modeling, distributed computing with Hadoop MapReduce & Spark.	
	Research Scientist & Instructor, Stanford University March 2015 - Present <ul style="list-style-type: none">• Taught a graduate-level course on mathematical and computational methods. Wrote accompanying textbook – see personal website.	
	Postdoctoral Scholar, Penn State University Feb 2013 - Feb 2015 <ul style="list-style-type: none">• Developed a geochemical model for estimating the impacts changing oxygen levels in the atmosphere. Results published in PNAS.	
EDUCATION	Ph.D., Geological Sciences, Stanford University Sep 2007 – April 2013	
	Dual B.Sc. in Geological Sciences and Life Sciences, Ben Gurion University, Be'er Sheva, Israel Sep 2004 – July 2007	
OTHER	Fluent English, Hebrew. American-Israeli dual citizenship. Served 3 years in the Israeli Defense Forces. Interests: endurance running, long distance hiking, aikido.	