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Matar Haller

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Education		Skills
2010 - 2016	Ph.D., Neuroscience, UC Berkeley	Computer languages Python (scikits-learn,
2003 - 2007	National Science Foundation Graduate Research Fellow B.A. , Cognitive Science; Psychology, UC Berkeley Highest Distinction in General Scholarship Departmental Citation for Cognitive Science	pandas, scipy, numpy, nltk), MATLAB, R, Lisp, git,
Work Experience 2016 Fellow, Insight Data Science, Palo Alto, CA		ECoG/EEG Eprime, Presentation, BioSemi, pygame,
2010	Engineered an algorithm to identify onset and offset times of	VisionAnalyzer
2010 - 2016	unidentified speakers in audio streams by combining dimensionality reduction and unsupervised clustering. Explored neural networks for latent space clustering. Graduate Student Researcher, UC Berkeley [1] Recorded activity from surgically implanted electrodes on	Languages Hebrew (native) English (native) Spanish (intermediate)
	human brains. Implemented filtering, PCA, clustering, regressions and permutation tests to link neuronal activity with behavior. [2] Developed novel method for extracting oscillatory	Relevant Courses Applied Natural Language Processing
	components from power spectra using robust linear regression and Gaussian mixture models.	Applied Statistics and Machine Learning
2005-2007	Research Assistant , UC Berkeley Trained and supervised a team of research assistants in conducting and analyzing EEG experiments.	Mining and Modeling of Neuroscience Data
2005 - 2013	Graduate Student Instructor, UC Berkeley Neuropsychology, Drugs & the Brain, Cognitive Science [1] Constructed lesson plans, graded exams and assignments,	Python Computing for Data Science
	assigned readings, mentored, guest lectured. [2] Awarded Outstanding Graduate Student Instructor. Average student evaluation: 6.7/7	Neural Computation
Projects		
2016	OkNLP , School of Information, UC Berkeley	and attacking (NTME

[1] Combined NLP (tf/idf, tokenization) with machine learning and statistics (NMF, ensemble methods, log-odds ratio, cross validation, grid search) to analyze free text

writing in data profiles across demographic groups.

[2] Accepted and presented as a talk at Scipy 2016 in Austin, TX

2014 **Software Carpentry**, Stanford University, CA

Assisted in teaching graduate students Python, shell, and version control.

Women in Tech, PyData Silicon Valley

Taught programming to high school girls at PyData Women in Tech workshop.

Military Service

2007- 2009 **Tank Instructor**, Armored Corps, Israel Defense Forces

Expert on the weapons control system of the Merkava Mark II tank. Trained new

recruits, commanders and officers.