Ricardo Pio Monti

Contact Information	25 Howland Street London, W1T 4JG	r.monti@ucl.ac.uk Italian, Argentine citizen
Education	Imperial College LondonPh.D., StatisticsAdvisors: Dr. Anagnostopoulos and Prof. Montana	October 2012 — April 2017
	 Thesis Overview: Penalized likelihood methods for covariance stationary data MSci., Mathematics 	e selection in the context of non- October 2008 — June 2012
	 1st Class Honours, Scorex Prize for Academic Excellence Final Year Project: Sequential Monte Carlo methods to predict results in tennis matches 	
Experience	• Postdoctoral training fellow, <i>Gatsby Unit</i> , <i>UCL</i> April 2017 — Present Working under the supervision of Prof. Aapo Hyvärinen. My current research focuses on the estimation of unnormalized statistical models with applications in deep learning and the study of neuroimaging data.	
	• Consultant, Mentat Innovations January 2017 — March 2017 Mentat Innovations is a small consultancy focused on delivering data science driven solutions to challenges in cyber-security. Working with a major financial services provider, my role consisted in implementing and validating anomaly detection models in the context of physical security.	
	• Data Science Intern, <i>Spotify</i> July 2016 — Sept 2016 <i>Spotify</i> is a leading music streaming service with over 100 million users. Working within the Analytics Research team, my role consisted of quantifying the stability and robustness of in- house music recommendation systems; resulting in several suggestions to improve performance and interpretability of recommendations.	
	• Data Scientist, <i>DataKind</i> Sept 2014 — Sept 2015 <i>DataKind</i> is a volunteering organization which allows data scientists to donate their skills to charities. Over the course of one year I was involved with a large UK charity helping quantify the impact of their programs and identifying areas for further investment of resources.	
Selected Publications	 Monti, R. P., et al., "Learning population and subject-specific Mixed Neighborhood Selection", Annals of Applied Statistics, Monti, R. P., et al., "A framework for adaptive penalizati Submitted Monti, R. P., et al., (2014). "Estimating Time-varying Br 	(11):2142-2164 [Code] on in streaming Lasso models", [Code] ain Connectivity Networks from
	 Functional MRI Time Series", NeuroImage (103):427-443 [Code] 4. Lorenz, R., Monti R. P., et al., (2016). "The automatic neuroscientist: A framework for optimizing experimental design with closed-loop real-time fMRI", NeuroImage (129):320-334 	
	 Lorenz, R., Violante, I., Monti R. P., et al., (2018). "Dissociating frontoparietal networks using neuroadaptive Bayesian optimization". Nature Communications, In Press. 	
Honours and Awards	• Faculty of Natural Science Award for Excellence in Teaching Imperial College London	May 2013
	• Student Paper Award International Workshop on Pattern Recognition in Neuroimaging	June 2015 g, Stanford University
Skills	 Programming (proficient) — R, Python Programming (working knowledge) — SQL, Shell scripting, C Languages — Spanish (native), English (native), Italian (Basic) 	
SERVICE	• Reviewing for JMLR, ICML	
References	Available upon request	