Javier Zapata

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OBJECTIVE: Summer Internship with a focus on implementing data science and machine learning solutions. Available between June and September of 2019.

Education

University of California, Santa Barbara	**Santa Barbara, CA**
PhD(c) in Statistics and Applied Probability (GPA: 3.95)	*2015-Current*
M.A. in Statistics - Mathematical Statistics Specialization	*2015-2017*

Doctoral Research: High-Dimensional Functional Graphical Models for Multivariate Gaussian Processes
Developing an unsupervised learning method to estimate partial correlations and feature-interaction networks from large-scale datasets. This method has applications in many domains including neuroimaging, image segmentation and sensor networks.

University of Chile	**Santiago, CHILE**
Professional Degree & B.Eng.Sc. in Industrial Engineering (GPA 4.00)	*2005-2009*

Professional Experience

University of California, Santa Barbara	**Santa Barbara, CA**
R\Shiny Web Developer	*August 2018 - Current*

Developing a repository of interactive web-based learning applications for probability and statistics undergraduate courses.

SimpliRoute	**Mountain View, CA**
Data Science Intern	*July 2017 - September 2017*

Improved the company's analytics by implementing a random forest predictor model of the discharging time of multi-stop delivery route plans integrating mobile GPS and delivery schedule data.

Ministry of Finance, Chilean Sovereign Wealth Fund	**Santiago, CHILE**
Quantitative Analyst	*2012 - 2014*

Enhanced productivity by developing an information database system for report automation and data analytics.

Implemented different time series and portfolio optimization models for the financial investment committee of the Chilean Sovereign Wealth Fund.

Journal and Conference Papers

- A. Petersen, S. Oh, & J. Zapata. Functional Graphical Models for Partially Separable Multivariate Gaussian Processes. *Work in Progress, 2018.*
- J. Zapata, V. Charlin & A. Cifuentes. Color Premiums in Art Markets: An Image Segmentation Approach. *Work in Progress, 2018.*
- J. Zapata & A. Cifuentes. On the Stability of Synthetic CDO Credit Ratings. *International Finance, Vol. 19, No. 2, June, 2016.*

Teaching Experience

University of California, Santa Barbara	**Santa Barbara, CA**
Teaching Associate	*July 2018 - September 2018*

Instructor for the class PSTAT 5A - Introduction to Statistics

Teaching Assistant	*September 2015 - Current*

Varied upper division and graduate courses including: Stochastic Processes, Big Data Analytics, Data Science, Time Series and Statistical Machine Learning.

Technical Skills & Interests

- **Programming Languages:** R, Python, Matlab, C/C++, Java, Unix.
- **Big Data Computing & Databases:** Apache Spark, SQL, PostgresSQL.
- **Web Development:** R\Shiny, HTML, PHP, Javascript.
- **Languages:** English(Fluent)   Spanish(Native)
- **Personal Interests:** Listening to music, weightlifting, kayaking and hiking.