

<b>Mario Becerra-Contreras</b> <b>Applied mathematician – Data Scientist – Computer Scientist</b> <b>Location:</b> Mexico City	<b>Cell phone:</b> + 52 1 (55) 1513-0162 <b>Email:</b> <a href="mailto:mbecerracontreras@gmail.com">mbecerracontreras@gmail.com</a> <b>Github:</b> <a href="https://github.com/mariobecerra">https://github.com/mariobecerra</a> <b>Webpage:</b> <a href="http://mariobecerra.com">http://mariobecerra.com</a> <b>LinkedIn:</b> <a href="http://linkedin.com/in/mbecerrac">http://linkedin.com/in/mbecerrac</a>
	My main interests are statistical modeling, predictive modeling, data visualization and machine learning.
EMPLOYMENT	<p><b>Data scientist at Banco Azteca</b>  <i>October 2018 - Present day</i>  Analyze data for the marketing and CRM teams of the bank.</p> <ul style="list-style-type: none"> <li>• Campaign analysis and A/B testing.</li> <li>• Predictions of future bank transactions.</li> </ul> <p><b>Data scientist at Business Data Evolution</b>  <i>September 2017 – September 2018</i>  Developed models both for prediction and for inferential analysis in data science consulting company.</p> <ul style="list-style-type: none"> <li>• Performed statistical analysis, exploratory data analysis and developed models in R.</li> <li>• Created data visualization dashboards using Rstudio's Shiny.</li> <li>• Analysis of predictive models using Individual Conditional Expectation (ICE) and variable interaction quantification.</li> <li>• Deployed final predictive models in Microsoft Azure VM and Azure Machine Learning.</li> <li>• Developed Bayesian predictive model for small black and white documents belonging to 4 classes.</li> <li>• Developed a Bayesian time series demand prediction model for a national grocery store.</li> <li>• Met with clients to understand their problems and needs, as well as presenting intermediate and final results.</li> </ul> <p><b>Data scientist at CAD Salud</b>  <i>May 2016 - June 2017</i>  Built predictive and inferential statistical models for health projects.</p> <ul style="list-style-type: none"> <li>• Performed statistical analysis, exploratory data analysis and developed models in R.</li> <li>• Created data visualization dashboards using Rstudio's Shiny.</li> <li>• Created simple predictive model for potential diabetes patients in public hospitals.</li> <li>• Generated spatial mathematical model for vaccines demand in public hospitals in Mexico.</li> <li>• Aided in the creation of multivariate index to rank public hospitals.</li> </ul> <p><b>Data Scientist at Grupo Salinas</b>  <i>October 2015 - May 2016</i>  Designed and built statistical and machine learning models for predictive and inferential analysis in market research.</p> <ul style="list-style-type: none"> <li>• Performed statistical analysis, exploratory data analysis and developed models in R.</li> <li>• Created data visualization dashboards using Rstudio's Shiny.</li> <li>• Aided in creation of predictive model of loan origination clients in a Mexican bank.</li> </ul> <p><b>Data analyst at Computer Research and Analysis Laboratory, ITAM</b>  <i>June 2014 – June 2015</i>  Machine learning application in Natural Language Processing for automation in news classification for media monitoring company.</p> <ul style="list-style-type: none"> <li>• Cleansed news articles data for modeling, mainly using R.</li> <li>• Created different predictive models for automatic news classification in Python using Scikit Learn.</li> </ul>
EDUCATION	<p><b>Master of Science - Computer Science, 2017</b>  Instituto Tecnológico Autónomo de México (ITAM), Mexico City  Took elective courses from the Data Science master program.</p> <p><b>Bachelor of Science - Applied Mathematics, 2015</b>  Instituto Tecnológico Autónomo de México (ITAM), Mexico City  Took elective courses from statistics, computer science and finance fields.</p>

SKILLS	<b>Statistics</b> GLMs, Bayesian statistics, PCA, spatial statistics, simulation, Bayesian networks, clustering, hierarchical/multilevel models, A/B testing, time series analysis		
	<b>Machine Learning and Data Mining</b> Random Forest, support vector machines, recommender systems, market basket analysis, association rules, Natural Language Processing, text mining, social network analysis, image processing, artificial neural networks, deep learning		
	<b>Programming languages and other technologies</b> R, Python, git, MATLAB, SQL, LaTeX, bash, C, C++, Java, Apache Spark, Apache Hadoop, Apache Hive, Apache Impala, Keras, Tensorflow, Cloudera		
	<b>Finance</b> Interest rates, financial derivatives, fixed income products, VaR		
	<b>Other</b> Linear programming, constrained and unconstrained numerical optimization, analysis of algorithms, business intelligence, compiler design, distributed systems, computer architecture		
	<b>Languages</b> Spanish: Native                      English: Native-like competence and accent                      French: Basic		