

Carolina Arriaga

Data Scientist

- Degree in engineering physics with 8 years of experience in applied engineering and data analysis.
- Inventor of an innovative hybrid twist tray ice maker technology for Whirlpool.
- Founder of Kolben Tech, a key in hand solar panel business with over 80 installations.
- Certified in systems design, Six Sigma Black Belt and project management.

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 [Carolina Arriaga](#)

 [Radio Horror](#)

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Experience

Jan 2019 – present

Data Science Consultant and Founder at Progressive Emergence

- Author of a research paper for IEEE EDUCON 2020 on evaluation of quality decision-making and applied sentiment analysis.
- Extracted, analyzed and visualized data from the Edible Schoolyard Evaluation Report 2016 for an NYU research paper.

Jan 2019 – present

Volunteer Co-Managing Director at [Girls in Tech - San Francisco](#)

- Created a dashboard to monitor Girls in Tech goals, financial health, and member engagement.
- Created an internal SQL database connected to our events information API.

Jul 2014 – Nov 2018

Senior Integration Engineer, Cooling at [Whirlpool's Center of Innovation and Technology \(CETEC\)](#)

- Ran multi-variate experiments, evaluated long-term trends, and created regression models to predict behaviour and optimize products.
- Led and managed energy and regulatory roadmaps for three regions: US, MX, and EMEA.
- Saved 9M by leading product model reductions in SxS refrigerators.

Languages

Spanish

English

Italian

German

Skills

Product Design

Design thinking dFMEA

Process capability

Design of experiments

Components of variance

Root cause analysis

Data Analysis

Data mining Data cleaning

Descriptive statistics

Predictive modeling

Optimization

Jan 2013 – Jun 2014

Engineering Manager, Founder at [Kolben Eco-Technologies](#)

- Led product implementation of 100kW solar power plant through business analysis, and design.
- Led energy efficiency audit for US Court building in McAllen, TX within 3 month period.

Education 

Aug 2020 – Dec 2021

Master candidate in Information and Data Science from University of California, Berkeley

Jun 2019 – Aug 2019

Online Degree in Data Science from Zenva Academy

Aug 2006 – May 2011

B.Sc. in Engineering Physics from Tec de Monterrey

Certificate in Architecture and Systems Engineering from MIT ProX

Certificate in Professional Project Management from UBC Sauder School of Business

Certificate in Six Sigma Black Belt from Whirlpool Corporation

Publications 

Jul 2019

Hybrid twist tray ice maker by USPTO

Inventor of an [innovative heat exchanger design](#) for fast ice making.
Publication number US 20190271496.

Feb 2020

Teaching decision making in engineering using a multi-attribute approach and ship design by IEEE

The [work](#) evaluated the knowledge and tools that facilitate quality decision-making in a Fluid Mechanics capstone project.

Statistical Modeling

Linear/logistic regression

Tree-based Models

Random forest Bagging

Boosting KNN

K-means clustering

Hypothesis testing

Computer programming

JMP Python R SQL

Visualization tools

Tableau SAS Looker

Web Development

HTML CSS

Volunteer 

Dec 2013 – present

Founder and President at [Board Games Monterrey](#)

Apr 2019 – Dec 2019

LatinX Fest Steering Committee Member at [Latinas in Tech](#)