

## Contact

lucia.castellanos.pb@gmail.com

www.linkedin.com/in/

luciacastellanos (LinkedIn)

lucia-castellanos.com (Personal)

## Top Skills

Machine learning. Data analyst.  
Software engineer. Computer  
Science.

Machine Learning

Computational Biology

## Languages

English, Spanish, French, German

# Lucia Castellanos

Applied Research Scientist at Amazon Web Services  
Seattle, Washington

## Experience

Amazon.com

Applied Research Scientist - Machine Learning  
August 2018 - Present

Greater Seattle Area

- + Implementation of algorithms for sourcing and ranking ads in Amazon.com

Amazon Web Services (AWS)

Applied Research Scientist - Machine Learning  
April 2016 - August 2018 (2 years 5 months)

Greater Seattle Area

- + Capacity planning for EC2 Spot instances
- + Dynamic pricing for EC2 instances
- + Demand forecasting (for data centers inventory)

Amazon

Software Development Engineer - Machine Learning  
September 2013 - April 2016 (2 years 8 months)

Palo Alto, California

- + Resource optimization in AWS EC2
- + Large scale machine learning for accelerating browsing experience in Silk browser

Carnegie Mellon University

PhD in Machine Learning  
September 2006 - August 2013 (7 years)

Advisor: Rob Kass

- + Proposed models and efficient representations of grasping kinematics.
- + Developed statistical methods for decoding grasping from spike trains measured in the primary motor cortex of primates.

Illumina

Bioinformatics Intern  
June 2011 - September 2011 (4 months)

- + Proposed, implemented and evaluated statistical models for variant recalibration using internally (Illumina) generated features that describe SNPs.
- + Evaluated the impact of a base calling post-processing module in variant calling using software packages like Gatk, Samtools, and Casava.

Institut National de Recherche en Informatique et en Automatique,  
France

Machine Learning Intern

May 2006 - September 2006 (5 months)

Researched variable selection in ensembles of neural networks in classification tasks.

Banco Santander Serfin

Data Mining Analyst

January 2006 - May 2006 (5 months)

Applied clustering analysis on data of clients to understand their profiles, and target marketing strategies more accurately.

Grupo Nacional Provincial GNP

Data Mining Consultant

November 2005 - February 2006 (4 months)

Identified and extracted relevant information from GNP clients' database to evaluate the viability and profitability of a potential new product.

University of Edinburgh

Research Assistant

September 2004 - September 2005 (1 year 1 month)

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## Education

Carnegie Mellon University

PhD, Machine Learning · (2006 - 2013)

The University of Edinburgh

MSc, Informatics · (2004 - 2005)

Instituto Tecnológico Autónomo de México

BSc, Applied Mathematics · (1998 - 2004)