

Eduardo Blancas Reyes

Software engineer with strong Machine Learning background and experience contributing to open source projects.

e.blancas@columbia.edu <https://blancas.io> <https://github.com/edublancas>

Education

Columbia University

Aug 2017 - Dec 2018 (Expected)

M.S. in Data Science

Relevant coursework: Algorithms for Data Science, Computer Systems for Data Science, Exploratory Data Analysis & Visualization, Machine Learning, Probabilistic Programming, Robustness and Security in Machine Learning, Applied Deep Learning

Universidad Nacional Autónoma de México (UNAM)

Aug 2016 - Jun 2017

Graduate Certificate in Applied Statistics

Relevant coursework: Statistical Inference, Sampling Techniques, Multivariate Analysis, Experimental Design, Categorical Data Analysis, Regression Models and Bayesian Inference.

Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM)

Jan 2011 - May 2015

B.S. in Mechatronics Engineering. Graduated with honors.

Experience

Columbia University (Department of Statistics)

New York, NY

Research Assistant (Advisor: Liam Paninski)

Sep 2017 - Dec 2018

- Maintainer of [YASS](#): an open source spike sorting library. Responsible for managing the project with the internal team and external community
- Develop high-performance algorithms for processing Larger-than-Memory datasets (NumPy, SciPy, scikit-learn)
- Use Deep Learning (CNNs) for neural activity detection and classification (TensorFlow, Keras)

Krieger

Mexico City, MX

Lead Backend Engineer

Jun 2016 - Aug 2017

- Oversaw backend development across projects to ensure code quality, performance and reliability
- Developed internal software tools that are used in several ongoing projects (input validation, software versioning, deployment, user permissions). These tools have reduced development time and increased team's productivity
- REST Web Services development using Python and Google Cloud

University of Chicago (Center for Data Science and Public Policy)

Chicago, IL

Data Science Fellow (Advisor: Rayid Ghani)

May 2015 - Jun 2016

- Held meetings with project partners for scoping and updates, communicated data analysis results to non-technical audience
- Developed a Machine Learning model using spatiotemporal data for the City of Cincinnati to identify properties at risk of building code violations. Worked with more than 50GB of data.
- Designed a predictive model for Infonavit (largest mortgage provider in Mexico) to predict home abandonment. Worked with more than 100GB of data

Publications

E. Blancas Reyes, J. Helsby, K. Rasch, P. van der Boor, L. Haynes, R. Ghani, E. Cunningham. Early detection of properties at risk of blight using spatiotemporal data. Data for Policy 2016 at University of Cambridge.

K. Ackermann, **E. Blancas Reyes**, S. He, T. Anderson Keller, P. van der Boor, R. Khan, R. Ghani. Designing Policy Recommendations to Reduce Home Abandonment in Mexico. In Proceedings of the 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, KDD'16.

Skills

Programming languages: Python, R, Objective-C, SQL. **Tools and technologies:** scikit-learn, numpy, flask, Google App Engine, Google Cloud Datastore, Google Cloud Storage, PostgreSQL, PostGIS, Docker, MongoDB, Amazon EC2, Amazon S3, Amazon Beanstalk

CV with prior experience, awards, press and other projects available at <https://blancas.io>.