Eduardo Blancas Reyes

e.blancas@columbia.edu / **edublancas.github.io**

Education

Columbia University   Aug 2017 - Dec 2018 (Expected)
M.S. in Data Science

Universidad Nacional Autónoma de México (UNAM)   Aug 2016 - Jun 2017
Graduate Certificate in Applied Statistics
Relevant coursework: inference, sampling, multivariate analysis, experimental design, categorical data, regression and bayesian inference.

Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM)   Jan 2011 - May 2015
B.S. in Mechatronics Engineering. Graduated with honors.
Coursework in analog and digital electronics, instrumentation, control theory, embedded systems.

Professional Experience

Columbia University (Grossman Center for the Statistics of Mind)   New York, NY
Research Assistant   Sep 2017 - Present

- Apply Machine Learning to neural data for spike sorting
- Develop software libraries to share state-of-the-art methods for neural data analysis

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   May 2015 - Jun 2016

- Designed a predictive model for Infonavit (largest mortgage provider in Mexico) to predict home abandonment. Worked with more than 100GB of data
- 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

Publications

- 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.
- **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.

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