Eduardo Blancas Reyes

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Education

Columbia University Aug 2017 - Dec 2018 (Expected)
M.S. in Data Science
Relevant coursework: Algorithms for Data Science, Machine Learning with Probabilistic Programming.

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.
Coursework in analog and digital electronics, instrumentation, control theory, embedded systems.

Experience

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

- Maintainer of YASS: an open source spike sorting library built on top of NumPy, SciPy, scikit-learn and TensorFlow. Responsible for managing the project with the internal team and external community
- Develop high-performance algorithms for processing Larger-than-Memory datasets
- Apply Machine Learning and Statistical methods to process neural recordings

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 our partners for project scoping and updates, communicated data analysis results to people without technical background
- Developed a Machine Learning model using spatiotemporal data for the City of Cincinnati to identify properties at risk of building code violations. Engineering a fully automated and reproducible pipeline to ingest new datasets and update the model. 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.

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