Mauricio Gonzalez Soto.

DoB: 09-September-1989.

Education.

■ Instituto Nacional de Astrofísica Óptica y Electrónica (INAOE).

• PhD. in Computer Science.

September 2017 - August 2021 (expected).

Thesis: "Use and acquisition of causal relations for decision making under uncertainty using imperfect information games"

Thesis Proposal defended and approved in November 2018.

Advisors: Dr. Luis E. Sucar¹ and Dr. Hugo J. Escalante².

■ Instituto Tecnologico Autonomo de México (ITAM).

• MSc. in Data Science.

August 2015 - August 2017.

Thesis: "Modelling Twitter Communities with Graphs" (in spanish).

Advisor: Dr. Fernando Esponda Darlington.

Special Mention Awarded.

• BSc. in Applied Mathematics.

August 2008 - May 2014.

Thesis: "Continuous State Branching Processes: A Backbone-style decomposition" (in spanish).

Advisor: MSc. Mauricio B. García Tec.

Special Mention Awarded.

■ Pontificia Universidad Catolica de Chile.

• Courses from the Statistics PhD. Program with Dr. Fernando A. Quintana, PhD. and Dr. Rolando Rebolledo. 2012.

Extra.

Languages: Advanced English (C1; IELTS 7.5). Basic German (A1). Basic French (A1).

Computer Skills: R. Python (2.x, 3.x). Spark (PySpark). Neo4j and Cypher Query Language. Matlab. Amazon Web Services (EC2, RDS). C and extensions for parallel programming. Docker (docker machine, docker swarm). Git. BUGS and JAGS. Command Line Tools (Bash, Awk, Sed). LateX, Rmarkdown, Rbookdown.

Working Experience.

■ Data Scientist, Institute of Analytics.

Mapping the Startup Ecosystem in Mexico: modelling Twitter data with graphs in Neo4j; twitter topic extraction and graph modelling of conversations.

October 2016 - June 2017.

■ Research Assistant, **Statistics Department-ITAM**.

Research Assistant of Dr. Victor Guerrero.

May 2016 - May 2017.

■ Labor Trials Outcome Predictor, Law Department-ITAM.

Predicting the outcome of Labor Trials using Machine Learning, working under the supervision of Prof. Joyce Sadka, PhD.. J.D.

September 2016 - December 2016.

• Research Internship, **BBVA-Bancomer**.

Financial Risk Contagion using Complex Networks.

June 2016 - September 2016.

¹https://ccc.inaoep.mx/~esucar/

²https://ccc.inaoep.mx/~hugojair/pmwiki/

■ Financial Risk Manager, **Banco Santander México**. September 2014 - December 2014. Summer 2011.

Publications

■ Gonzalez-Soto, M., Sucar, L.E., Escalante, H.J., Playing against Nature: causal discovery for decision making under uncertainty. CausalML 2018 Workshop at ICML 2018. Stockholm, Sweden.

Research Interests: Causality and Causal Inference, Decision Making under Uncertainty, Game Theory, Causal learning in humans, Behavioral Economics, Bayesian Statistics.

Conferences and Congresses.

- Poster presentation in CausalML Workshop, ICML 2018.
- Attended Topological Data Analysis Winter School, CIMAT, 2015.
- Attended XI Symposium on Probability and Stochastic Processes, CIMAT, 2013.

Reviewing Experience.

■ Reviewer for the NeurIPS 2019 Competition Track

Contact:

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