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EDUCATION The Wharton School, University of Pennsylvania 2015-2020
Ph.D. in Finance

Instituto Tecnológico Autonomo de Mexico (ITAM) 2014-2015
M.A., Economic Theory
B.A., Economics (with honors), 2010-2014
B.A., Financial Management (with honors) 2010-2014

RESEARCH INTERESTS Asset Pricing, Machine Learning, Bayesian Econometrics

WORKING PAPERS **Risk Factors That Matter: Textual Analysis of Risk Disclosures for the Cross-Section of Returns** (Job market Paper)

Using unsupervised machine learning, I introduce interpretable and economically relevant risk factors that characterize the cross-section of returns better than the leading factor models. I do not use any information from the past returns to select the risk factors. I exploit natural language processing techniques to identify from the firms risk disclosures the types of risks that firms face, quantify how much each firm is exposed to each type of risk, and employ the firms exposure to each type of risk to construct a 4-factor model. The risk factors roughly correspond to Technology and Innovation Risk, Demand Risk, Production Risk and International Risk.

Demand-Driven Risk and the Cross-Section of Expected Returns

Abstract: Firms that concentrate their activities towards goods with higher income elasticity are more exposed to demand-driven risk, since the consumption of high-consumption households is more exposed to aggregate shocks. These firms earn higher risk-adjusted equity returns. A portfolio that goes long on the most exposed firms and short on the least exposed gets an abnormal risk-adjusted annual return of 7.5%. This risk does not seem to be coming from competition. A portfolio that goes long in firms exposed to demand-driven risk and competitive pressure and short on firms not exposed to demand-driven risk nor competitive pressure earns an abnormal risk-adjusted annual return of 14%.

WORK IN PROGRESS **When do we get confident about a predictor? Bayesian framework for time-varying predictor relevance**

Being innovative pays off, but when?

joint with Roberto Gomez-Cram and Marco Grotteria

FELLOWSHIPS,
HONORS,
AWARDS AND
GRANTS

WFA Cubist Systematic Strategies Ph.D. Candidate Award for Outstanding Research, 2019
Irwin Friend Doctoral Fellowship in Finance, Wharton, 2019
Best Paper, European Investment Forum Research Prize, Cambridge, 2019
Best Paper in the Investment Track, Baltimore Area Finance Conference, 2019
Rodney L. White Center for Financial Research Grant, Wharton, 2019
The Mack Institute for Innovation Management Research Grant, 2019
George James Term Fund Travel Award, Wharton, 2019
Jacob Levy Fellowship , Wharton, 2019
Rodney L. White Center for Financial Research Grant, Wharton, 2018
The Mack Institute for Innovation Management Research Grant, 2018

CONFERENCES
AND
PRESENTATIONS

2019: WFA, The Future of Financial Information Conference, European Investment Forum Research, INFORMS Annual Meeting*, NLP and Machine Learning in Investment Management Conference, Baltimore Area Finance Conference, 5th Annual University of Connecticut Finance Conference, International Finance Conference 11, 27th Finance Forum, 2nd Dauphine Finance PhD Workshop, EFA Doctoral Tutorial, Financial Markets and Corporate Decisions, Southern Finance Association*, 2019 ITAM Alumni Conference, Inquire Autumn Seminar 2019
*Scheduled

2018: INSEAD-Wharton Doctoral Consortium, Wharton PhD Lunch Seminar

TEACHING
EXPERIENCE

Lecturer, The Wharton School, University of Pennsylvania

Leadership in the Business World

Statistics, 2017, 2018

Global Young Leaders Academy

Business Statistics, Interest Rates and Bonds, Risk and Return, Capital Structure, 2019

Teaching Assistant, The Wharton School, University of Pennsylvania

Empirical Methods in Asset Pricing (PhD), Prof. Amir Yaron, 2018

Empirical Methods in Asset Pricing (PhD), Prof. Nikolai Roussanov, 2019

DEPARTMENT
SERVICE

Coordinator of the PhD Student Seminar 2017, 2018

Wharton Doctoral Program Executive Committee 2017, 2018

REFEREE

Review of Financial Studies, Economic Letters, Review of Finance,

LANGUAGES

English (fluent), Spanish (native), Portuguese (basic), French (basic)

REFERENCES

Jules van Binsbergen (Chair)

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João F. Gomes

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