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ACADEMIC APPOINTMENTS

2019 - University of Notre Dame, Mendoza College of Business
Assistant Professor of Finance
2019 - The Notre Dame Institute for Global Investing
Faculty Fellow

NON-ACADEMIC POSITIONS

2009 - 2013 GE Global Research (Researcher)
2008 - 2009 SustainX (Senior Engineer)
2007 - 2008 Oliver Wyman Financial Services (Consultant)

EDUCATION

2013 - 2019 University of Chicago Booth School of Business, *PhD* in Financial Economics, 2019
2013 - 2019 University of Chicago, *MA* in Economics, 2019
2005 - 2007 Dartmouth College, *MS* in Engineering Sciences, 2007
2001 - 2005 Thayer School of Engineering at Dartmouth College, *BE* in Engineering Sciences, 2005
2001 - 2005 Dartmouth College, *AB* in Engineering Sciences (*Summa Cum Laude*), 2005

PUBLISHED PAPERS

“The Conditional Expected Market Return” (with Fousseni Chabi-Yo)

Journal of Financial Economics 137 (3), September 2020, Pages 752-786

Abstract: We derive lower bounds on the conditional expected excess market return and expected log market returns. The bounds are related to a volatility index, a skewness index, and a kurtosis index. The bounds can be calculated in real time at any date using the cross-section of option prices. The bounds require no-arbitrage assumptions, but do not depend on any distributional assumptions about market returns or past observations. The bounds are highly volatile, positively skewed, and exhibit fat tails. They imply that the term structure of equity returns is decreasing during turbulent times and increasing during normal times, and that the expected excess market return is on average 5%.

WORKING PAPERS

“Stock Price Reactions to the Information and Bias in Analyst-Expected Returns”

Best Paper in Asset Pricing: *2019 SFS Cavalcade Asia-Pacific*

First Place: *2019 Chicago Quantitative Alliance Academic Competition*

Conferences: *SFS Cavalcade Asia-Pacific (2019), Midwest Finance Association (2019), Chicago Quantitative Alliance (2019), Miami Behavioral Finance Conference (2018, PhD poster session), Illinois Economic Association (2018)*

Abstract: I use a novel decomposition to extract information and bias components from the returns implied by analyst price targets and provide evidence that the market does not efficiently incorporate these components into prices. Prices underreact to the information component and returns drift in the direction of their initial reaction for up to 12 months. Prices overreact to the bias component and reverse their initial reaction within three to six months. Market participants are able to partially debias analyst-expected returns before incorporating them into prices with the initial reaction to bias being much weaker than that to information. These effects are economically significant as evidenced by implementable trading strategies.

“A Decomposition of Conditional Risk Premia and Implications for Representative Agent Models” (with Fousseni Chabi-Yo)

Conferences: *American Finance Association Annual Meeting (2022), Midwest Finance Association (2022), Financial Management Association Conference on Derivatives and Volatility (2021), Northern Finance Association Conference (2021), Wabash Conference (2021), Virtual Derivatives Workshop (2021)*

Abstract: We develop a methodology to decompose the conditional market risk premium and risk premia on higher-order moments of excess market returns into components related to contingent claims on down, up, and moderate market returns. The decompositions do not depend on assumptions about the functional form of investor preferences, nor do they depend on assumptions about the market return distribution. Analogous decompositions implied by prominent representative agent models fail to match those implied by the data. Our results provide a set of new empirical facts regarding sources of conditional risk premia and identify new challenges for representative agent models.

“An Intertemporal Risk Factor Model” (with Fousseni Chabi-Yo and Andrei S. Goncalves)

Conferences: *China International Conference in Finance (2022), University of Southern California Macro-Finance Workshop (2022), Midwest Finance Association (2021), Luso-Brazilian Finance Meeting (2021)*

Abstract: We develop a factor model that is tightly linked to intertemporal asset pricing theory. Specifically, we show that a long-term Bayesian investor prices shocks to the market dividend yield and realized variance as they reflect news to long-term expected returns and volatility. Accordingly, we construct intertemporal risk factors as long-short portfolios based on stock exposures to dividend yield and realized variance, and estimate their risk prices, which are consistent with the ICAPM under moderate risk aversion. Our intertemporal factor model performs well relative to previous models in terms of its tangency Sharpe ratio and its pricing of key test assets.

“Market factor measurement error and a reevaluation of the market risk-return trade-off” (with Sung Je Byun and Lawrence D.W. Schmidt)

Conferences/Presentations: *Swedish House of Finance BI-SHoF Conference (2022), Rutgers*

Abstract: A value-weighted portfolio of US stocks is not a well-diversified portfolio. While a substantial amount of the variation in the index can be explained by a single dominant factor (the first principal component of a large set of equal-weighted, characteristic-sorted portfolios), index returns are also driven by nontrivial, time-varying exposures to weaker factors and “granular residuals” – idiosyncratic shocks to large firms that aren’t diversified away. We argue, both theoretically and empirically, that these additional components can generate instability in tests of the risk-return tradeoff. Then, we reevaluate the current consensus for a weak market risk-return tradeoff in the US stock market using an alternative index unaffected by them. In the time series, we find stronger evidence of a relation between the risk premium and variance of the market after these corrections. In the cross-section, we find evidence that making these corrections generates larger cross-sectional variation in market betas, and that this exposure to market risk explains a much larger share of variation in expected returns. Finally, in line with our theory, correcting for these errors eliminates the ability of size factors to improve pricing within a large set of standard factor models.

WORK IN PROGRESS

“Idiosyncratic Labor Income in a Production General Equilibrium Model” (with Miguel Palacios and Lawrence Schmidt)

Abstract: We develop a highly tractable, general equilibrium model with production and incomplete markets. In the model, agents can invest in physical capital and human capital, where the latter investment technology is subject to uninsurable, idiosyncratic disaster risk. The quantity of both inputs is time-varying and endogenously determined in equilibrium, subject to aggregate adjustment costs. We demonstrate that the presence of uninsurable risk has first-order implications for the riskiness of human capital; in particular, the risk premium on human capital and the share of total wealth in human capital are considerably larger and smaller, respectively, relative to the complete markets benchmark. Moreover, the presence of state-dependent, idiosyncratic risk increases the equity risk premium and has important implications for agent’s optimal investment behavior.

PUBLISHED PAPERS (MATERIALS SCIENCE)

“The impact of technological innovation on critical materials risk dynamics” (with A. Ku and S. Duclos), *Sustainable Materials and Technologies* 15 19-26, 2018.

“Microstructural evolution of a spinodally formed $Fe_{35}Ni_{15}Mn_{25}Al_{25}$ ” (with I. Baker, R.K. Zheng, D.W. Saxey, S. Kuwano, M.W. Wittmann, K.S. Prasad, Z. Liu, R. Marceau, P.R. Munroe, and S.P. Ringer), *Intermetallics* 17 (11) 886-893, 2009.

“Dislocation identification and in situ straining in the spinodal $Fe_{30}Ni_{20}Mn_{25}Al_{25}$ alloy” (with I. Baker), *Microscopy Research and Technique* 71 (7) 489-486, 2008.

“ α - and β -Mn precipitates in the spinodal $Fe_{30}Ni_{20}Mn_{25}Al_{25}$ alloy” (with I. Baker), *Philosophical Magazine* 87 (35) 5639-5656, 2007.

- “Fe/Fe oxide nanocomposite particles with large specific absorption rate for hyperthermia” (with Q. Zeng, I. Baker, Y. Liao, P.J. Hoopes, and J.B. Weaver), *Applied Physics Letters* 90 (233112), 2007.
- “Synthesis and heating effect of iron/iron oxide composite and iron oxide nanoparticles” (with Q. Zeng, I. Baker, Y.F. Liao and P.J. Hoopes), *Proceedings of SPIE - Volume 6440; Thermal Treatment of Tissue: Energy Delivery and Assessment IV*, Thomas P. Ryan, Editor, Feb. 9, 2007.
- “Microstructure and mechanical properties of an extruded $Fe_{30}Ni_{20}Mn_{25}Al_{25}$ alloy” (with T.C. Boyd, D.A. Coen and I. Baker), *Materials Research Society Conference Proceedings: Advanced Intermetallic-Based Alloys Symposium II*, David Morris et al., Editors, Nov. 27-30, 2006.

SEMINAR AND CONFERENCE PRESENTATIONS (*presented by a co-author)

2022	City University of Hong Kong (scheduled), Swedish House of Finance BI-SHoF Conference*, China International Conference in Finance*, American Finance Association, Midwest Finance Association*, Temple University, University of Southern California Macro-Finance Workshop*
2021	Financial Management Association Conference on Derivatives and Volatility, Northern Finance Association, Wabash River Conference, Midwest Finance Association, Virtual Derivatives Workshop*, Luso-Brazilian Finance Meeting*, University of Notre Dame, Purdue University*, University of North Carolina at Chapel Hill*
2020	European Financial Management Association (scheduled but canceled), University of Notre Dame, New York University*, The Ohio State University*, University of North Carolina at Chapel Hill*, Triangle Macro-Finance Workshop*, UMass Amherst*
2019	SFS Cavalcade Asia-Pacific, Midwest Finance Association, Chicago Quantitative Alliance, Arizona State University, George Mason University, Indiana University, Michigan State University, Notre Dame, Rice University, UC San Diego, UMass Amherst, University of Toronto, Vanderbilt University, Virginia Tech
2018	Illinois Economic Association, Miami Behavioral Finance Conference (poster), Washington University in St. Louis (EGSC), Chicago Booth, Université Laval*, UMass Amherst*, Texas A&M*, Goethe University Frankfurt*
2017	Washington University in St. Louis (EGSC)

OTHER ACADEMIC ACTIVITIES

Referee: Journal of Finance, Review of Financial Studies, Management Science, Journal of Financial and Quantitative Analysis, Review of Asset Pricing Studies, Review of Finance, Journal of Empirical Finance, Journal of Futures Markets

Discussions: American Finance Association (2023, scheduled), Midwest Finance Association (2022), European Finance Association (2021), Illinois Economic Association (2018)

Misc: Reviewer for FMA Best Paper in Investments (2022), Midwest Finance Association Program Committee (2022)

HONORS AND AWARDS

2019	Best Paper in Asset Pricing (SFS Cavalcade Asia-Pacific), First Place (Chicago Quantitative Alliance Academic Competition)
2013-2018	Drumheller Family Foundation PhD Fellowship
2017	Yale Summer School in Behavioral Finance
2015	Princeton Initiative: Macro, Money and Finance
2005-2007	National Science Foundation Graduate Research Fellowship
2005-2007	Marc G. Fragge 1987 (Thayer 1989) Memorial Fellow
2005	Phi Beta Kappa
2004	Tau Beta Pi Engineering Honor Society