BOARD OF PENSION TRUSTEES FOR THE

CITY OF JACKSONVILLE RETIREMENT SYSTEM Thursday, January 4, 2024, at 12:30 PM City Hall Conference Room 3C

AGENDA

- 1. CALL TO ORDER
- 2. PUBLIC COMMENT
- 3. INVESTMENT AND FINANCIAL MATTERS

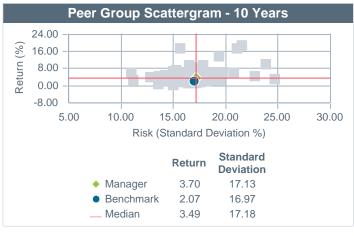
Acadian – EM Equity

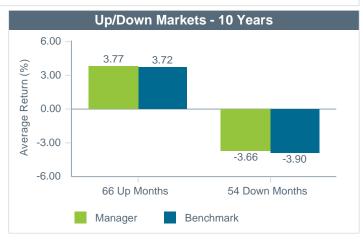
- 4. **INFORMATION**
- a. Next regular BOT meeting scheduled for Thursday, January 25, 2024, at 2 PM
- b. Silchester International Equity discussion scheduled for Thursday, February 1, 2024, at 12:30 PM
- 5. PRIVILEGE OF THE FLOOR
- 6. ADJOURNMENT

Manager: Acadian Emg Mkts Eq II (CF)
Benchmark: MSCI Emg Mkts Index (USD) (Net)

Peer Group: IM Emerging Markets Equity (SA+CF)

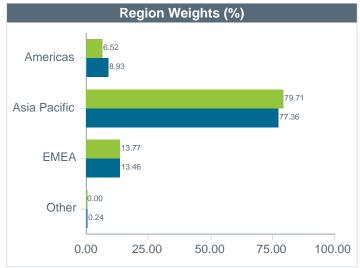
				P	Performar	nce					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	2019	2018
Manager	0.62	25.36	5.40	3.52	5.42	3.70	-19.69	8.75	12.55	18.00	-18.30
Benchmark	-2.93	11.70	-1.73	0.55	3.22	2.07	-20.09	-2.54	18.31	18.42	-14.57
Difference	3.55	13.66	7.13	2.97	2.20	1.63	0.40	11.29	-5.76	-0.42	-3.73
Peer Group Median	-2.96	14.89	-0.16	2.60	4.53	3.49	-19.50	0.94	18.28	20.15	-15.20
Rank	21	13	31	38	33	45	51	25	75	66	79
Population	299	293	271	249	228	191	314	324	350	372	373







Portfolio Cha	racteri	stics an	d Dist. d	of Market Cap (%)
			Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)			61,196	97,111
Median Mkt. Cap (\$M)			836	5,769
Price/Earnings Ratio			7.85	12.11
Price/Book Ratio			2.25	2.37
5 Yr. EPS Growth Rate (%)		15.93	14.19
Current Yield (%)			5.50	3.08
Beta (5 Years, Monthly)			0.98	1.00
Number of Securities			835	1,437
Active Share			72.53	N/A
60.00 – 45.00 –				47.01
30.00 - 22.45		23.91		36.70
15.00	2.98 3.84	11.15	10.47	13.56
>\$100 Bil	\$75 Bil - \$100 Bil	\$25 Bil - \$75 Bil	\$15 Bil - \$25 Bil	\$2 Bil - \$0 - \$15 Bil \$2 Bil



Performance shown is gross of fees and product specific. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.







City of Jacksonville Retirement System

Emerging Markets Equity





Presentation Team

Scott Brymer, CFA — Senior Vice President, Portfolio Manager

Scott joined Acadian in 2006 and is a senior member of the Equity Team, focusing primarily on portfolio oversight and portfolio-related research. He was previously a member of the Portfolio Construction Group, where he specialized in simulation-based research, portfolio analytics, optimization, and trading. He earned a B.B.A. in finance from the University of Massachusetts at Amherst. Scott is a CFA charterholder and a member of CFA Society Boston.

James Klapman — Senior Vice President, Relationship Manager

Jim joined Acadian in 1996 and is a senior member of Acadian's Global Client Group. He is a Relationship Manager responsible for servicing our clients in North America. Jim previously worked with Acadian's clients in the Middle East, Asia, and Australia and was Head of Portfolio Construction for Acadian Asset Management (Australia) Limited. Jim holds an M.B.A. with a concentration in finance from Northeastern University and a B.A. in economics and government/legal studies from Bowdoin College.





Why Acadian in Emerging Markets?

- Pioneering investor in emerging markets equities, beginning in 1994
- Broad and mispriced security universe in an inefficient asset class
- Outperformance in 16 out of 29 years, with a since inception annualized return of 6.1% versus 4.4% for the benchmark as of November 30, 2023*

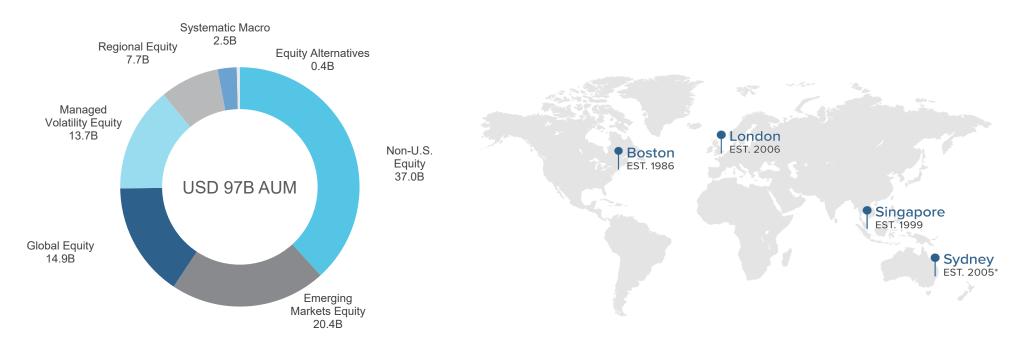


226% cumulative value-added net of fees



Organizational Overview

- Acadian has been a pioneer in systematic investing since our founding in 1986
- We believe that a systematic approach grounded in fundamentals is well suited to delivering consistent risk-adjusted returns
- Our 389-person team is focused on continuous research and innovation





Investment Team – Equities







Investment Philosophy

- Financial assets are often mispriced due to investors incorrectly processing information, having incomplete information, or both
- Systematic processes best capture inefficiencies arising from mispriced fundamental and market information
- Our edge comes from embracing new ideas and a continuous investment in people, technology, and data



Investment Process



Emerging Markets

16,500 stock investment universe



Objective Return Forecast

Stock-specific

Selection within traditionally defined groups

+

Peer

Overlooked information from alternative peer groups

+

Macro

Top-down group signals (industry and country)



Disciplined Portfolio Construction

Multi-horizon forecasts

Proprietary risk models

Dynamic transaction cost modeling



Structured Trading Process

Systematic approach

Dynamic routing based on order profiling

Real-time oversight

ESG Issues Are Integrated Throughout

Integrated ESG Signals
Active Research Agenda

Application of ESG Screens, Risk Management, Portfolio Tilting* Portfolio Characteristics Report, Proxy Voting, Women & Minority Brokerage, Engagement Reporting



Return Forecast Example

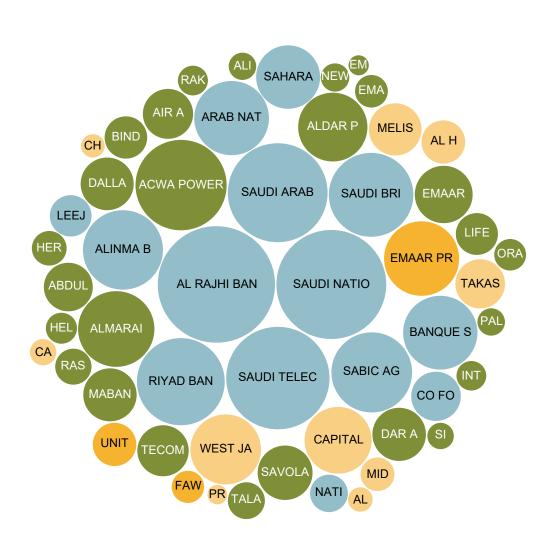
Model	Theme		Sample signals	Forecast		
	Value	→	Adjusted Intrinsic Value Extended Asset Value	+0.67		
Stock-	Quality	\rightarrow	Financial Strength Management Behavior ⁺	+0.29		
Specific	Growth	\rightarrow	Earnings Surprise Recommendation Change	+0.39		
	Technical	→	Industry Leadership Smart Reversal	+0.45		Total Forecast +2.06%
					,	
Peer	Proprietary	\rightarrow	Momentum	-0.09		Company: ARABIAN CENTRES CO LTD
1 661	Networks		Fundamentals	0.00		Market Cap: USD 3B
					'	Country: Saudi Arabia
]	Industry: Equity Real Estate Investment Trusts (REITs)
	Country	\rightarrow	Corruption Adjusted Valuatior Macro Environment	+0.15		Description: Engaged in the commercial real estate market
Macro	Industry	\rightarrow	Quality Global Growth Sensitivity	+0.05		
	Country/Industry Intersection	→	Price Momentum Adjusted Valuation	+0.12		

[→] Denotes integrated ESG signals



Stock Forecast Example: Mapping Peer Relationships

Arabian Centres CO LTD



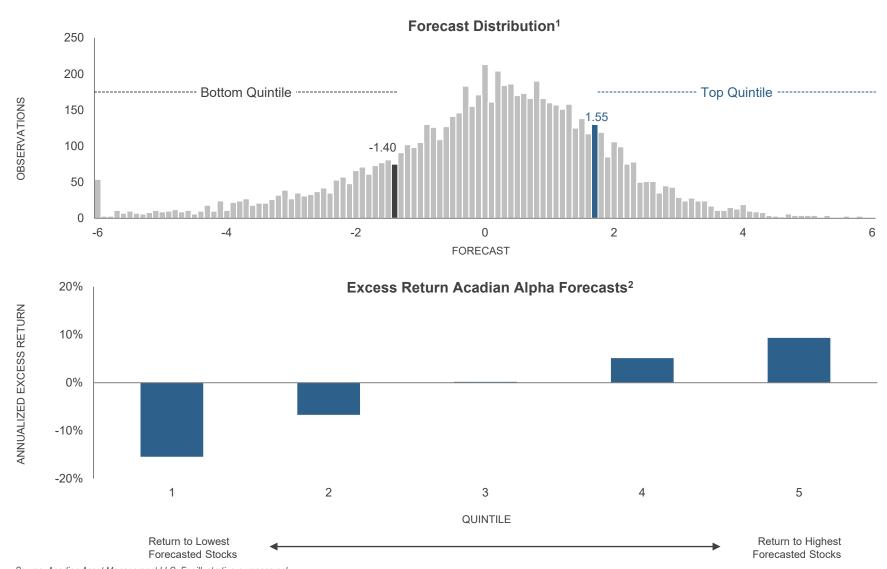
LEGEND

- Peer Linkage B
- Peer Linkage C
- Peer Linkage D
- Peer Linkage E



Stock Forecast Distribution and Returns

Trailing 10 Years as of September 2023



Source: Acadian Asset Management LLC. For illustrative purposes only

Source: Acadian's Emerging Markets universe with a market cap greater than \$100M. Methodology: Observations represents the number of forecasts. The highlighted values represent the observations in the top and bottom quintiles. The information is not reflective of a particular time period and is provided for illustrative purposes only. The chart depicts our forecast distribution process based on proprietary models. There can be no assurance that the forecasts will be achieved.

2This is not intended to represent investment returns generated by an actual portfolio. They do not represent actual trading or an actual account but were achieved by means of using Acadian's Emerging Markets universe of securities for the period specified above. Results do not reflect transaction costs or other implementation costs. Past performance is no guarantee of future results.



Research: Representative Projects

Project Theme	Investment Thesis		Representative Project
Alternative Data	Market participants fail to fully incorporate information embedded in corporate statements	→	Global Filings
Machine Learning	Machine Learning can identify non-obvious events and capture their non-linear impact on returns	→	ML Event Alpha
Macro	Investors underappreciate the importance of robust trade activity for country returns	→	Trade Vulnerability
Group Networks	Current peer networks play different roles in defining future linkages	→	Predicted Similarity
ESG	Investors fail to recognize ESG information present in companies' written communications	→	Management Evasiveness





Portfolio Mandate – November 30, 2023

Acadian Emerging Markets Equity II

Portfolio Name Acadian Emerging Markets Equity II

Strategy Emerging Markets

Mandate Equity investing in the emerging markets

Inception Date Acadian Emerging Markets Equity II: April 8, 2009

City of Jacksonville Retirement System: January 20, 2011

Market Value Acadian Emerging Markets Equity II: USD 1,439,781,970

City of Jacksonville Retirement System: USD 131,428,418

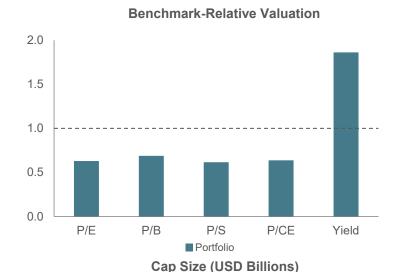
Benchmark Index MSCI Emerging Markets

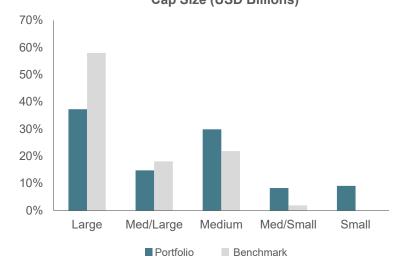


Key Characteristics – November 30, 2023*

Valuation	Portfolio	Benchmark
Price/Earnings	8.8	14.0
Price/Book	1.1	1.6
Price/Sales	0.8	1.3
Price/Cash Earnings	5.8	9.1
Yield	5.4%	2.9%
Total Securities	774	1437

Cap Size (USD Billions)	Portfolio	Benchmark
Large > \$20B	37.3%	58.0%
Med/Large \$10-\$20	14.8%	18.1%
Medium \$3-\$10	29.9%	21.9%
Med/Small \$1.5-\$3	8.3%	1.9%
Small < \$1.5	9.1%	0.0%
Median	0.9	6.7
Weighted Average	76.4	108.1





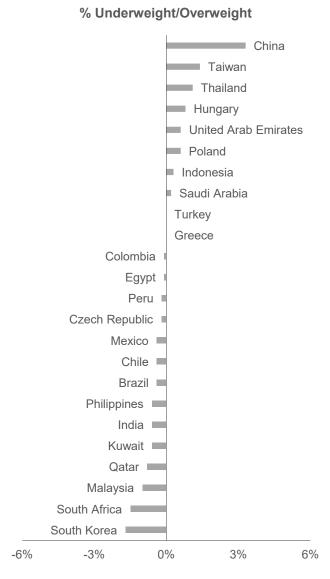
Portfolio: Acadian Emerging Markets Equity II. Benchmark: MSCI Emerging Markets.

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Emerging Markets Allocations - November 30, 2023*

	Portfolio	Benchmark	Difference
Europe/Mid East/Africa	11.7%	12.7%	-1.0%
Czech Republic	0.0	0.2	-0.2
Egypt	0.0	0.1	-0.1
Greece	0.5	0.5	0.0
Hungary	1.1	0.3	8.0
Kuwait	0.1	0.8	-0.6
Poland	1.5	0.9	0.6
Qatar	0.1	0.9	-0.8
Saudi Arabia	4.2	4.1	0.2
South Africa	1.6	3.1	-1.5
Turkey	0.7	0.7	0.0
United Arab Emirates	1.9	1.3	0.6
Latin America	7.5%	9.1%	-1.6%
Brazil	5.2	5.7	-0.4
Chile	0.0	0.5	-0.4
Colombia	0.0	0.1	-0.1
Mexico	2.2	2.6	-0.4
Peru	0.0	0.2	-0.2
Asia	80.2%	78.2%	2.0%
China	31.6	28.4	3.3
India	15.0	15.7	-0.6
Indonesia	2.1	1.9	0.3
Malaysia	0.3	1.4	-1.0
Philippines	0.0	0.6	-0.6
South Korea	11.0	12.7	-1.7
Taiwan	17.2	15.8	1.4
Thailand	2.9	1.8	1.1
Developed Markets Cash	0.0% 0.6	0.0%	0.0%



Portfolio: Acadian Emerging Markets Equity II. Benchmark: MSCI Emerging Markets.

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Industry Allocations – November 30, 2023*

	Portfolio	Benchmark	Difference
Communication Services	13.1%	9.6%	3.5%
Media & Entertainment	11.6	6.8	4.8
Telecommunication Services	1.6	2.8	-1.2
Consumer Discretionary	12.0%	13.1%	-1.2%
Automobiles & Components	1.3	3.7	-2.4
Consumer Discretionary Distribution & Retail	4.9	5.7	-0.8
Consumer Durables & Apparel	3.3	1.3	2.0
Consumer Services	2.3	2.4	-0.1
Consumer Staples	2.2%	6.1%	-3.9%
Consumer Staples Distribution & Retail	0.4	1.5	-1.1
Food, Beverage & Tobacco	1.5	3.8	-2.3
Household & Personal Products	0.3	8.0	-0.5
Energy	11.4%	5.1%	6.3%
Financials	17.8%	22.1%	-4.4%
Banks	12.8	16.6	-3.8
Financial Services	2.6	2.9	-0.3
Insurance	2.3	2.6	-0.3
Health Care	0.8%	3.9%	-3.1%
Health Care Equipment & Services	0.3	1.1	-0.8
Pharmaceuticals, Biotechnology & Life Sciences	0.5	2.8	-2.3
Industrials	6.4%	6.5%	-0.1%
Capital Goods	4.4	4.5	-0.1
Commercial & Professional Services	0.4	0.1	0.3
Transportation	1.6	1.9	-0.3
Information Technology	26.9%	21.5%	5.3%
Semiconductors & Semiconductor Equipment	10.3	9.9	0.4
Software & Services	5.7	2.5	3.2
Technology Hardware & Equipment	10.9	9.2	1.7
Materials	4.7%	7.8%	-3.0%
Real Estate	1.9%	1.6%	0.3%
Equity Real Estate Investment Trusts (REITs)	0.0	0.1	-0.1
Real Estate Management	1.9	1.5	0.4
Utilities	2.2%	2.6%	-0.4%
Cash	0.6		



Portfolio: Acadian Emerging Markets Equity II. Benchmark: MSCI Emerging Markets.

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Top Ten Portfolio Holdings – November 30, 2023*

Name	Country	Industry	Portfolio (%)
TENCENT HOLDINGS LTD	China	Media & Entertainment	4.5
TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	Taiwan	Semiconductors & Semiconductor Equipment	4.5
SAMSUNG ELECTRONICS CO LTD	South Korea	Technology Hardware & Equipment	2.5
HCL TECHNOLOGIES LTD	India	Software & Services	2.5
CHINA CONSTRUCTION BANK CORP.	China	Banks	2.4
PETROLEO BRASILEIRO SA	Brazil	Energy	2.3
HON HAI PRECISION INDUSTRY CO LTD	Taiwan	Technology Hardware & Equipment	2.0
REALTEK SEMICONDUCTOR CORP	Taiwan	Semiconductors & Semiconductor Equipment	1.8
PETROCHINA CO LTD.	China	Energy	1.8
NOVATEK MICROELECTRONICS CORP	Taiwan	Semiconductors & Semiconductor Equipment	1.7

Summary	Portfolio	Benchmark	Active Weight
% of Portfolio for Top 10 Active Weights	18.9	3.3	15.7
% of Portfolio for Top 20 Current Holdings	39.6	22.2	17.4
% of Non-Benchmark Portfolio Holdings	21.5		
Active Share of Portfolio	70.8		

Portfolio: Acadian Emerging Markets Equity II. Benchmark: MSCI Emerging Markets.

*Preliminary. Portfolio holdings are subject to change and should not be considered a recommendation to buy or sell individual securities.

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City of Jacksonville Retirement System

Performance (Returns in USD – Before and After Management Fees)

Time Period	Portfolio (gross)*	Portfolio (net)*	Benchmark	Value-Added (gross) vs. Benchmark
2011 (Inception: Jan 20, 2011)	(16.1)%	(16.5)%	(19.2)%	3.1%
2012	23.4	22.5	18.2	5.2
2013	(1.6)	(2.3)	(2.6)	1.0
2014	2.3	1.5	(2.2)	4.5
2015	(17.5)	(18.0)	(14.9)	(2.6)
2016	13.9	13.2	11.2	2.7
2017	38.8	38.0	37.3	1.5
2018	(18.4)	(18.9)	(14.6)	(3.8)
2019	17.8	17.1	18.4	(0.6)
2020	12.5	11.9	18.3	(5.8)
2021	8.6	8.0	(2.5)	11.1
2022	(19.8)	(20.3)	(20.1)	0.3
2023 through November	17.3	16.7	5.7	11.6
One Year Annualized Return	16.2	15.5	4.2	12.0
Three Year Annualized Return	3.6	3.0	(4.0)	7.6
Five Year Annualized Return	5.5	4.9	2.3	3.2
Ten Year Annualized Return	3.8	3.2	2.1	1.7
Since-Inception Annualized Return	3.2	2.6	1.2	2.0
Since-Inception Annualized Standard Deviation	17.9	17.8	17.7	
Since-Inception Active Risk				4.0
Since-Inception Information Ratio				0.5

Portfolio: City of Jacksonville Retirement System. Benchmark: MSCI Emerging Markets (net).

*Returns that include the most recent month are preliminary. The information provided has been prepared by Acadian from our internal records. It is not intended to replace the official records of your account that you receive directly from the custodian. You are encouraged to compare the information provided to you by Acadian to that provided by the custodian and to contact us with any questions. Reference to the benchmark is for comparative purposes only and is not intended to indicate that the portfolio will contain the same investments as the benchmark. Investors have the opportunity for losses as well as profits. Past performance is no guarantee of future returns. The complete performance disclosure can be found in the composite performance disclosure page attached. Index Source: MSCI Copyright MSCI 2024. All Rights Reserved. Unpublished. PROPRIETARY TO MSCI.



Performance Attribution

Acadian Emerging Markets Equity II YTD through November 2023

Stock Selection 12.23 Allocation -0.49 Total 11.74

Stock Selection	12.26
Allocation	-0.52
Total	11.74

Industry

Top Five/Bottom Five Top Five/Bottom Five Active Weight Active Weight -4.0 -2.0 0.0 2.0 4.0 -6.0-3.00.0 3.0 6.0 China Software & Services India Capital Goods Taiwan Energy Saudi Arabia Tech Hardware & Equip Hungary Semicon & Semicon Equip Mexico Health Care Equip & Servcs Thailand Consumer Disc, Distr, Retail South Africa Banks Indonesia Comm & Prof Services South Korea Autos & Components -8.0 0.0 4.0 8.0 -4.0-2.0 -1.0 0.0 1.0 2.0 Return Contribution Return Contribution Selection Effect Allocation Effect Active Weight

Portfolio: Acadian Emerging Markets Equity II. Benchmark: MSCI Emerging Markets (net).
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Portfolio Return Attribution

Acadian Emerging Markets Equity II YTD through November 2023

	Q1 2	Q1 2023		Q2 2023		Q3 2023		QTD 2023*		Total	
	Exposure(%)	Contrib(%)									
Alpha	100.0	3.52	100.0	2.91	100.0	4.49	100.0	0.98	100.0	11.89	
Value	47.2	1.20	39.1	1.79	34.6	2.58	35.2	0.75	39.4	6.32	
Quality	16.8	0.82	15.4	0.31	12.5	-0.43	11.6	-0.24	14.3	0.46	
Growth	3.4	0.43	4.7	-0.02	5.7	0.58	6.2	0.11	4.9	1.10	
Technical	15.0	0.57	22.8	0.40	29.2	1.19	27.3	0.29	23.3	2.46	
Peer	6.1	0.29	7.2	0.50	6.6	0.22	7.7	0.17	6.8	1.18	
Top-Down	11.5	0.21	10.8	-0.07	11.5	0.34	12.0	-0.10	11.4	0.37	
Residual		0.11		-0.03		-0.19		-0.04		-0.15	
Risk		0.15		0.13		-0.64		-0.62		-0.97	
Cash Equitization		0.00		0.00		0.00		0.00		0.00	
Trading Costs		-0.05		-0.08		-0.10		-0.11		-0.34	
Compounding		0.25		0.07		-0.01		0.06		1.31	
Active Return		3.98		3.00		3.55		0.27		11.74	

Source: Acadian and MSCI Emerging Markets (net)

This report utilizes average exposures and factor returns alongside total contributions, which can result in periods where positive average exposures and factor return do not result in positive contribution because of the timing effect between exposures and factor returns. More precisely, if both exposures and returns were time-varying, with higher exposures corresponding to negative factor return periods and lower exposures corresponding to positive average exposures corresponding to negative factor return periods and lower exposures corresponding to positive factor return periods, we can have negative total contribution despite having positive average exposure and factor return. Past performance is no guarantee of future returns. Investors have the opportunity for loss as well as profit. The complete performance discolsure can be found in the composite performance discolsure page attached. The information provided has been prepared by Acadian from our internal records. It is not intended to replace the official records of your account that you receive directly from the custodian. You are encouraged to compare the information provided to you by Acadian Asset Management LLC to that provided by the custodian and to contact us with any questions. Index Source: MSCI Copyright MSCI 2024. All Rights Reserved. Unpublished. PROPRIETARY TO MSCI.

^{*}Returns represent a partial period.





World Equity Valuation

November 30, 2023*

Universe	Index	Price/ Earnings	Price/ Book	Price/ Sales	Price/ Cash	Yield
Emerging Markets	MSCI Emerging Markets	14.0	1.6	1.3	9.1	2.9%
Emerging Markets Small-Cap	MSCI EM Small-Cap	19.4	1.5	0.9	10.4	2.6%
Europe	MSCI Europe	13.9	1.9	1.3	8.7	3.2%
Frontier Markets	MSCI Frontier 15% Country Capped	9.5	1.4	1.2	7.0	4.5%
Japan Large-Cap	TOPIX	15.4	1.3	0.9	8.5	2.3%
Non-U.S. Equity	MSCI EAFE	14.5	1.7	1.3	9.0	3.1%
Non-U.S. Small-Cap Equity	MSCI EAFE Small-Cap	15.9	1.2	0.8	7.9	3.1%
Non-U.S. Micro-Cap	MSCI World ex-U.S. Micro-Cap	27.4	0.9	0.6	10.3	2.7%
U.S. Large-Cap	S&P 500	23.5	4.3	2.6	15.7	1.5%
U.S. Small-Cap	Russell 2000	27.9	1.8	1.1	13.2	1.6%
U.S. Micro-Cap	MSCI U.S. Micro-Cap	-14.6	1.2	0.6	-6.1	1.5%
World	MSCI World	20.1	3.0	2.0	13.0	2.0%

^{*}Preliminary. Data Source: MSCI, TOPIX, Russell, and S&P.

It is not possible to invest directly in any index.

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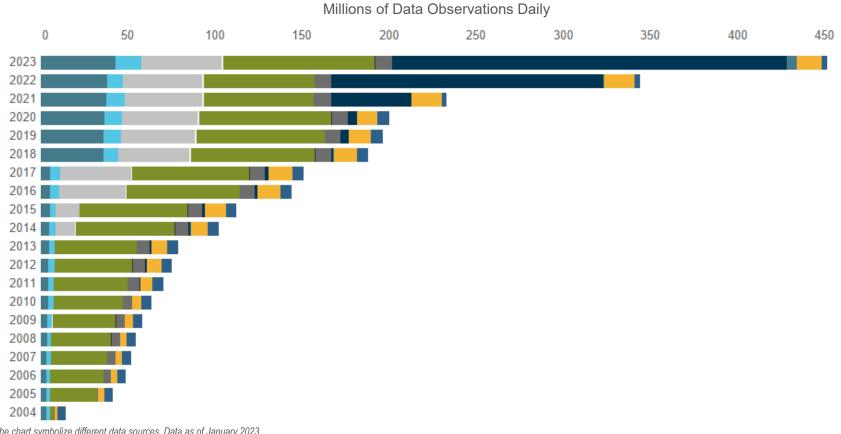
Global Data

43,500 COMPANIES **100 COUNTRIES**

450 MILLION DAILY OBSERVATIONS

55 TERABYTE **DATABASE**

Daily data from over 40 sources including regulatory authorities, company websites, media sources, and industry trade organizations not available in standard vendor offerings:







Brendan Bradley, Ph.D. – Executive Vice President, Chief Investment Officer

- 25 years of investment experience
- Member of the Acadian Board of Managers, Executive Management Team, Executive Committee, Responsible Investing Committee
- Ph.D. in applied mathematics from Boston University
- B.A. in physics from Boston College

Malcolm Baker, Ph.D. - Director, Research

- 21 years of investment experience
- Research consultant since 2006
- Robert G. Kirby Professor of Finance, Harvard Business School
- Ph.D. from Harvard University
- M.Phil. From Cambridge University
- B.A. from Brown University

James Dufort, CFA – Senior Vice President, Director, Investment Analytics & Data

- 20 years of Investment experience
- Member of Acadian's Compliance and Risk Committee
- M.B.A. from Indiana University, Kelley School of Business
- B.S. in electrical engineering from Tufts University
- CFA charterholder

Michael Gleason - Senior Vice President, Director, Equity Alternative

- 27 years of investment experience
- MSF from Northeastern University
- B.S. in management science from Bridgewater State University

Andy Moniz Ph.D., CFA – Senior Vice President, Director of Responsible Investing

Acadian Asset Management (U.K.) Limited

- 23 years of professional experience
- Ph.D. in natural language processing and information retrieval from Erasmus University
- MSc. in applied statistics from the University of London
- M.A. in economics from Cambridge University
- B.A. in economics from Cambridge University
- CFA charterholder and member of CFA Society U.K.

Ryan Taliaferro, Ph.D. – Senior Vice President, Director, Investment Strategies

- 21 years of professional experience
- Member of Acadian's Executive Committee
- Ph.D. in business economics (finance) from Harvard University
- M.B.A. in finance and economics from the University of Chicago
- A.M. in economics from Harvard University
- A.M. and A.B. in physics from Harvard University

Alexandre Voitenok - Senior Vice President, Director, Implementation

- 22 years of investment experience
- Member of the Acadian Executive Committee, Diversity & Inclusion Forum
- M.Sc. in software engineering from Minsk Radio Engineering Institute

Fanesca Young, Ph.D., CFA – Senior Vice President, Director, Equity Portfolio Management

- 18 years of professional experience
- Ph.D. in statistics from Columbia University
- M.Phil. in statistics from Columbia University
- M.A. in statistics from Columbia University
- B.A. in mathematics from the University of Virginia
- CFA charterholder

Vladimir Zdorovtsov, Ph.D. – Senior Vice President, Director, Global Equity Research

- 21 years of investment experience
- Ph.D. in finance from University of South Carolina
- M.B.A. from University of Arkansas
- B.A. in international economics from Sumy University, Ukraine

Francis Seah, CFA – Senior Vice President, Portfolio Manager and Managing Director, Acadian Singapore Acadian Asset Management (Singapore) Pte Ltd

- 19 years of investment experience
- B.S. and M.S. from Nanyang Technological University
- CPA, Institute of Certified Public Accountants Singapore
- CFA charterholder and a member of CFA Singapore
- Computational Finance Certificate from Carnegie Mellon University

Thomas Dobler, Ph.D. – Senior Vice President, Interim Director, Multi–Asset Class Strategies

- 27 years of investment experience
- Member of Acadian's Diversity & Inclusion Forum
- Ph.D. in mathematics from Columbia University
- M.S. in mathematics from University of Illinois
- B.S. in mathematics from University of Vienna, Austria



Joseph Bacchi – Senior Vice President, Head of Trading, Multi Asset Class Strategies

- 26 years of investment experience
- M.B.A. in international/executive management from St. John's University
- B.S. in finance from St. John's University

Jean Christophe (J.C.) De Beaulieu, CFA – Senior Vice President, Head of Investments, Australia

Acadian Asset Management (Australia) Limited

- 25 years of investment experience
- Advanced Master in financial techniques from ESSEC Business School
- D.E.A. in numerical analysis from Pierre and Marie Curie University and Ecole Polytechnique
- M.S. in mathematics from Pierre and Marie Curie University
- CFA charterholder and member of CFA Society Boston

Mark Birmingham, CFA – Senior Vice President, Head of Risk Modeling, Porfolio Manager

- 28 years of investment experience
- A.B. in computer science from Princeton University
- CFA charterholder and member of CFA Society Boston

Joel Feinberg - Senior Vice President, Head of Trading

- 17 years of investment experience
- MSIM from Boston University
- B.B.A. in finance from the University of Massachusetts

Alexander Galakatos, Ph.D. – Senior Vice President, Head of Investment Data Engineering

- 4 years of professional experience
- Ph.D. in computer science from Brown University
- ScM in computer science from Brown University
- B.Sc. in computer engineering from Lehigh University

Boris Kovtunenko, Ph.D. – Senior Vice President, Head of Implementation Research

- 18 years of investment experience
- Ph.D. in economics from Harvard University
- M.A. in economics from New Economics School
- M.S. in physics from Moscow State University

Michael McCart, CFA - Senior Vice President, Head of Portfolio Analytics

- 25 years of investment experience
- B.S. in engineering and economics, University of Pennsylvania
- CFA charterholder and a member of CFA Society Boston

Jian Pan, CFA - Senior Vice President, Head of Quantitative Systems

- 29 years of professional experience
- M.S. in computer science from the University of Massachusetts
- B.S. industrial automation control from Nanjing University of Technology, China

Javier Alcazar, Ph.D. – Senior Vice President, Portfolio Manager, Research Acadian Asset Management (U.K.) Limited

- 21 years of professional experience
- Ph.D. in mechanical engineering from the Universidad Pontificia Comillas, ICAI, Spain
- M.Sc. in advanced mathematics and theoretical Physics from the University of Cambridge
- M.Sc. in aeronautical engineering from the Universidad Politecnica de Madrid, Spain
- M.Sc. in parallel computing from Imperial College London
- B.Sc. in theoretical physics from Universidad Complutense de Ciencias Fisicas, Spain

Daniel Adamson – Senior Vice President, Portfolio Manager, Implementation

- 20 years of professional experience
- M.B.A. from Boston College
- B.A. in accountancy and management information systems from Miami University

Ioannis Baltopoulos - Senior Vice President, Portfolio Manager

- 14 years of professional experience
- M.Sc. in advanced computing from Imperial College London
- B.Sc. in computer science from the University of Kent

Pavel Bandarchuk, Ph.D., CFA – Senior Vice President, Portfolio Manager, Research

- 16 years of investment experience
- Ph.D. in international economics and finance from Brandeis University
- M.S. in finance from Brandeis University
- Diploma in international economics from Belarusian State University
- Certified FRM and CFA charterholder

Scott Brymer, CFA – Senior Vice President, Portfolio Manager

- 25 years of professional experience
- B.B.A. in finance from the University of Massachusetts Amherst
- CFA charterholder and a member of CFA Society Boston

Heidi Chen, CFA - Senior Vice President, Portfolio Manager

- 9 years of professional experience
- S.M. in computational science and engineering from Harvard University
- B.A. with Honors in mathematics from Williams College
- CFA charterholder and member of CFA Society Boston



Zhe Chen, Ph.D., CFA – Senior Vice President, Portfolio Manager, Research

Acadian Asset Management (Australia) Limited

- 14 years of professional experience
- Ph.D. in empirical finance from Macquarie University
- Bachelor of Engineering (bioinformatics), First Class Honours and University Medal, from the University of New South Wales
- Bachelor of Commerce (finance) from UNSW
- CFA charterholder

Chris Covington, CFA – Senior Vice President, Portfolio Manager

- 16 years of professional experience
- M.S. in investment management from Boston University
- B.A. in mathematical economics from Colorado College
- CFA charterholder

Denys Glushkov, Ph.D. – Senior Vice President, Portfolio Manager, Research

- 17 years of professional experience
- Ph.D. in finance, University of Texas at Austin
- M.S. in economic cybernetics, Dnipropetrovsk State University (Ukraine)
- M.A. in economics, Central European University (Hungary)

Clifton Hill – Senior Vice President, Portfolio Manager, Multi–Asset Class Strategies

- 22 years of investment experience
- Member of Acadian's Diversity & Inclusion Forum
- B.A. in political science from Brown University

Katrina Khoupongsy, CFA – Senior Vice President, Portfolio Manager, Research

Acadian Asset Management (Australia) Limited

- 29 years of professional experience
- Bachelor in mathematics and finance (Hons) from the University of Technology, Sydney
- Graduate Diploma in applied finance and investments from the Securities Institute of Australia
- CFA charterholder

Owen Lamont, Ph.D. - Senior Vice President, Portfolio Manager, Research

- 35 years of professional experience
- Ph.D. in economics from the Massachusetts Institute of Technology
- B.S. in economics from Oberlin College

Dmitry Olevsky, CFA – Senior Vice President, Portfolio Manager, Research

- 21 years of investment experience
- M.B.A. from Harvard Business School
- B.S. in structural engineering from Michigan Technological University
- FRM designation and CFA charterholder

Shailesh Parmar – Senior Vice President, Portfolio Manager, Multi Asset Class Strategies

- 16 years of investment experience
- M.B.A. in finance and economics from Columbia Business School
- B.A. in chemistry from Columbia University

Matthew Picone, CFA – Senior Vice President, Portfolio Manager, ESG Acadian Asset Management (Australia) Limited

- 19 years of professional experience
- Bachelor of Commerce in finance and econometrics from the University of Sydney
- CFA charterholder
- Member of the PRI Australian Advisory Committee

Lukasz Pomorski, Ph.D. - Senior Vice President, Portfolio Manager

- 17 years of professional experience
- Ph.D. in finance from the University of Chicago
- M.A. in finance from Tilburg University
- M.A. and B.A. in economics from the Warsaw School of Economics

Mark Roemer - Senior Vice President, Portfolio Manager

- 27 years of professional experience
- M.S. in finance from London Business School
- M.S. in engineering from Stanford University
- B.S. in mechanical engineering from Virginia Polytechnic Institute & State University

Bin Shi, Ph.D., CFA – Senior Vice President, Portfolio Manager, Research

- 17 years of investment experience
- Ph.D. in industrial and systems engineering from Georgia Institute of Technology
- M.S. in operations research from Georgia Institute of Technology
- B.S. in mechanical engineering from Southeast University, China
- CFA charterholder

Olivia Tang, Ph.D., CFA – Senior Vice President, Portfolio Manager, Research

- 13 years of professional experience
- Ph.D. in systems engineering, with a concentration in operations research, from Boston University
- B.S. in mathematics from Peking University (China)
- CFA charterholder



Charles Augello, CFA – Senior Vice President, Lead Analyst, Integration, Multi–Asset Class Strategies

- 18 years of professional experience
- B.A. in engineering sciences and economics from Dartmouth College
- CFA charterholder

Anton Kapliy, Ph.D., CFA – Senior Vice President, Lead Analyst, Implementation

- 9 years of professional experience
- Ph.D. in high energy physics from University of Chicago
- B.A. in physics from University of Pennsylvania
- CFA charterholder and a member of CFA Society Boston

Rob Ricciarelli, CFA - Senior Vice President, Lead Analyst, IPD

- 27 years of professional experience
- M.B.A from Suffolk University
- B.S. in management and B.A. in psychology from the University of Massachusetts, Boston
- CFA charterholder

Jeffrey Sutthoff, CFA - Senior Vice President, Lead Analyst, Integration

- 28 years of professional experience
- M.B.A. in finance from Boston College
- B.S. in mathematics from Stetson University
- CFA charterholder

Mark Weissman - Senior Vice President, Lead Analyst, Research

- 17 years of investment experience
- B.S. in computer science, SUNY at Buffalo
- B.S. in chemical engineering from SUNY at Buffalo

Xiaoting Zhang, CFA, FRM – Senior Vice President, Lead Analyst, Integration

- 19 years of investment experience
- M.B.A. from the University of Chicago
- M.S. in financial mathematics from the University of Chicago
- M.S. in computer science from Loyola University Chicago
- B.A. in architecture from Tianjin University, China
- Certified FRM and CFA charterholder

Deborah Waters – Senior Vice President, Senior Trader, Implementation

- 33 of years of professional experience
- B.S. in finance from Northeastern University

Dominique Abdi – Vice President, Portfolio Manager, Multi Asset Class Strategies

- 10 years of investment experience
- M.S. in mathematics from New York University
- B.S. in mathematics with a minor in economics from University of Miami
- B.B.A in finance with a minor in accounting from the University of Miami

Giuliano Amantini, Ph.D. - Vice President, Portfolio Manager

- 18 years of professional experience
- Ph.D. in engineering and applied sciences from Yale University
- M.S. in mathematical finance from Bocconi University
- M.S. in mechanical engineering from Yale University
- M.S. in aerospace engineering from La Sapienza University
- B.S. in mechanical engineering from Tor Vergata University

Paul Duchnowski, Sc.D. - Vice President, Portfolio Manager

- 16 years of investment experience
- B.S., M.S., and Sc.D. in electrical engineering from the Massachusetts Institute of Technology

Timothy Ellerton, CFA – Vice President, Portfolio Manager Acadian Asset Management (U.K.) Limited

- 23 years of professional experience
- M.Sc. in mathematical trading & finance from the Bayes Business School at City University
- B.A. in law & society from the University of Exeter
- CFA charterholder and member of CFA Society U.K

Stephen Fang - Vice President, Portfolio Manager, Research

- 6 years of investment experience
- M.S. in computational science and engineering from Harvard University
- B.A. in mathematics and economics from Middlebury College

Sean Geary, CFA - Vice President, Portfolio Manager

- 15 years of professional experience
- M.B.A. from Boston College
- M.S. in mechanical engineering from Boston University
- B.S. in physics from James Madison University
- CFA charterholder and member of CFA Society Boston

Charles Johnson - Vice President, Portfolio Manager

- 21 years of professional experience
- M.S. in finance from Northeastern University
- M.B.A. from Northeastern University
- B.S. in finance from the University of Massachusetts at Dartmouth



John King - Vice President, Portfolio Manager

- 22 years of professional experience
- Associate's degree in computer technology from Southern Maine Community College

Dan Le, CFA – Vice President, Portfolio Manager

- 18 years of professional experience
- B.A. in psychology from Brown University
- CFA charterholder and a member of CFA Society Boston

Adhi Mallik, CFA – Vice President, Portfolio Manager

- 12 years of investment experience
- M.B.A. with a concentration in finance & accounting from Carnegie Mellon University
- B.A. in economics from University of CA San Diego
- CFA charterholder

Ken Masse, CFA - Vice President, Portfolio Manager

- 31 years of investment experience
- M.S. in finance from Boston College Carroll School of Management
- B.S. in finance from Bentley University
- CFA charterholder

Devin Nial – Vice President, Portfolio Manager, ESG

- 18 years of professional experience
- M.S. in finance from Boston College
- M.A. in computer science from Boston University
- B.A. in English literature from SUNY Albany

Brendan O'Leary, CFA – Vice President, Portfolio Manager, Research

- 10 years of professional experience
- B.S.E. in mechanical & aerospace engineering from Princeton University
- CFA charterholder

Aditya Panda – Vice President, Portfolio Manager, Multi Asset Class Strategies

- 14 years of investment experience
- Master of financial engineering from UCLA
- Bachelor of engineering from the School of Electrical and Electronic Engineering, Nanyang Technical University, Singapore

Michael Ponikiewicz – Vice President, Portfolio Manager, Multi Asset Class Strategies

- 11 years of investment experience
- M.B.A. with concentration in asset management from Boston College
- M.S. in finance from Boston College
- B.S. in industrial engineering from Pennsylvania State University

Linda Wang - Vice President, Portfolio Manager, Research

- 10 years of investment experience
- Master of Finance from MIT's Sloan School of Management
- B.S. in finance and accounting from Drexel University
- Certified FRM

Kyle McCarthy, CFA – Vice President, Associate Portfolio Manager, Implementation

- 17 years of professional experience
- B.S. in finance from Bentley University
- CFA charterholder and member of CFA Society Boston

Anna Papush, Ph.D. – Vice President, Associate Portfolio Manager,

- 9 years of professional experience
- Ph.D. in operations research from Massachusetts Institute of Technology
- B.A. in mathematics from Cornell University

Shivani Patnaik – Vice President, Associate Portfolio Manager

- 12 years of professional experience
- M.S. in mathematical finance from Boston University
- B.S. in chemical engineering from University of Maryland

Alexander Rikun – Vice President, Associate Portfolio Manager

- 13 years of professional experience
- Ph.D. in operations research from Massachusetts Institute of Technology
- B.S. in applied mathematics with a minor in economics from Columbia University

Louis Seng – Vice President, Associate Portfolio Manager, Implementation Acadian Asset Management (Singapore) Pte Ltd

- 14 years of investment experience
- B.B.M in finance from Singapore Management University

Steven Wong –Vice President, Associate Portfolio Manager, Research Acadian Asset Management (Australia) Limited

- 12 years of professional experience
- Doctor of Philosophy in statistics from the University of Sydney
- Master of Finance from the University of New South Wales
- Bachelor of Commerce and Bachelor of Engineering from the University of New South Wales

Xunqi (Richie) Yu, CFA – Vice President, Associate Portfolio Manager

- 15 years of professional experience
- Ph.D. in electrical and computer engineering from the University of Miami
- M.S. in computational finance from Carnegie Mellon University, Tepper School of Business
- B.S. in information engineering from Wuhan University, School of Remote Sensing and Information Engineering
- CFA charterholder



James Coder, CFA – Vice President, Lead Analyst, Integration, Multi Asset Class Strategies

- 10 years of investment experience
- B.S. in finance from the University of Kansas
- CFA charterholder

Bhaskar Edara, CFA, FRM - Vice President, Lead Analyst, Implementation

- 28 years of professional experience
- M.S. in finance from Boston College
- B.Tech. in mechanical engineering from the National Institute of Technology, India
- Certified FRM and CFA charterholder

Lucas Manley, CFA – Vice President, Lead Analyst

- 19 years of investment experience
- M.S. in investment management from Boston University
- B.S. in business administration from Northeastern University
- CFA charterholder and a member of CFA Society Boston

Bernard Sim – Vice President, Lead Analyst, IPD Acadian Asset Management (Singapore) Pte Ltd

- 22 years of professional experience
- Bachelor of Commerce in finance from the Australia National University

Michael Vashevko – Vice President, Lead Analyst, Implementation

- 27 years of professional experience
- M.S. in applied mathematics and computer science from Belarusian State University

Shin Zhao, CFA - Vice President, Lead Analyst, Integration

- 20 years of professional experience
- M.S. in electrical and computer engineering from the University of Massachusetts
- B.S. in physics from the University of Science and Technology of China
- CFA charterholder

Rei Cheong, CFA – Vice President, Senior Analyst, IPD Acadian Asset Management (Singapore) Pte Ltd

- 19 years of professional experience
- Masters in Business Administration from the Singapore Management University
- Graduate Diploma in Financial Management from the Singapore Institute of Management
- Bachelor of Electrical Engineering from the National University of Singapore
- CFA charterholder

Soichi Hayashi – Vice President, Senior Analyst, Implementation

- 22 years of professional experience
- B.S. in computer science and physics from Henderson State University

Shi He - Vice President, Senior Analyst, Integration

- 5 years of professional experience
- M.S. in data science from Worcester Polytechnic Institute
- B.S. in computer science from Hubei University of Police, China

Michael Kelsey – Vice President, Senior Analyst, Implementation

- 21 years of professional experience
- M.B.A. from Northeastern University
- B.S. from Babson College

Anna Lang, CFA - Vice President, Senior Analyst, IPD

- 11 years of professional experience
- M.B.A. from Boston University
- B.S. in accounting from the International Slavic University
- CFA charterholder and a member of CFA Society Boston

Zhenan (Micky) Li, CFA – Vice President, Senior Analyst, IPD

- 12 years of investment experience
- M.S. in economics from Boston University
- B.S. in international business and trade from ShanDong University of Science & Technology
- B.S. in business management and administration from Cambridge College
- CFA charterholder and member of CFA Society Boston

lan MacClancy- Vice President, Senior Analyst, Investment Data Engineering

- 8 years of professional experience
- B.A. in computer science from Colby College

Guy Mann – Vice President, Senior Analyst, Implementation

- 20 years of professional experience
- B.S. in computer science from Worcester Polytechnic Institute

David Meadows - Vice President, Senior Analyst

- 14 years of professional experience
- B.Sc. in computer science from Newcastle University

Yevgen Revtsov, CFA – Vice President, Senior Analyst, Integration

- 10 years of professional experience
- B.S. in computer systems engineering from Boston University
- CFA charterholder



Kamlun Shek, Ph.D., CFA – Vice President, Senior Analyst, Integration, Multi–Asset Class Strategies

- 25 years of professional experience
- Ph.D. in mechanical engineering from Rensselaer Polytechnic Institute
- M.S. mechanics from Rensselaer Polytechnic Institute
- M.S. in computer science from Rensselaer Polytechnic Institute
- M.S. and B.S. in civil engineering from National Cheng Kung University, Taiwan
- CFA charterholder

Alagappan Solaiappan - Vice President, Senior Analyst, Data Engineering

- 18 years of professional experience
- M.E. in engineering from Anna University
- B.E. in engineering from Madurai Kamaraj University

Michael Szrom, CFA – Vice President, Senior Analyst, Implementation

- 6 years of professional experience
- B.S. in computer science and computer engineering from Northeastern University
- CFA charterholder

Carl Thunman – Vice President, Senior Analyst, Implementation

- 12 years of professional experience
- B.S. in engineering and computer science from Princeton University

Yi Yi (Richard) XU, CFA, FRM - Vice President, Senior Analyst, Integration

- 21 years of professional experience
- M.B.A. from Boston College
- M.S. in electrical engineering from Northern Illinois University
- B.S. in computer science from Fudan University, Shanghai, China
- FRM designation and CFA charterholder

Shikun (George) Xue, CFA – Vice President, Senior Analyst, Integration

- 14 years of professional experience
- M.A. in finance from Peking University
- B.A. in economics and B.S. in mathematics from Wuhan University
- CFA charterholder

Jason Withrow - Vice President, Senior Analyst, Integration

- 26 years of professional experience
- Member of Acadian's Diversity & Inclusion Forum
- B.A. in computer science from the University of Rhode Island

Ted Zhang, CFA – Vice President, Senior Analyst, IPD

- 17 years of professional experience
- M.S. in finance from Bentlev University
- B.S. accounting from Bentley University
- CFA charterholder and a member of CFA Society Boston

Patrick Burek - Vice President, Trader, Multi-Asset Class Strategies

- 20 years of professional experience
- B.A. in government from Cornell University

Benjamin Hutchens, CAIA - Vice President, Trader, Implementation

- 16 years of professional experience
- M.S. in investment management from Boston University
- B.A. in international affairs and political science from Northeastern University
- CAIA charterholder

Jason Littlefield - Vice President, Trader, Implementation

- 18 years of professional experience
- M.S. in finance from Northeastern University
- B.S. in business administration, with a dual concentration in accounting and marketing, from Northeastern University

Sean Paylor - Vice President, Trader, Implementation

- 17 years of professional experience
- B.A. in sociology from Princeton University

Christopher Sinpraseuth – Vice President, Trader, Implementation Acadian Asset Management (Australia) Limited

- 19 years of professional experience
- Master of Commerce in finance and human resource management from the University of New South Wales
- University Foundation Studies of Commerce at St. Paul's International College

Gregory Spyropoulos, CFA – Vice President, Credit Trader, Implementation

- 20 years of professional experience
- B.S in finance from Bentley College
- CFA charterholder

Eric Huang - Assistant Vice President, Associate Portfolio Manager

- 7 years of professional experience
- B.S. in operations research and financial engineering from Princeton University

Wesley Jeng, CFA – Assistant Vice President, Associate Portfolio Manager, Implementation

Acadian Asset Management (Australia) Limited

- 10 years of investment experience
- Dual Master's Degree from UT Austin and ESCP Europe
- BA (Hons) from University of Nottingham
- CFA charterholder



Jeffrey Lobdell, CMT – Assistant Vice President, Associate Portfolio Manager, Implementation

- 15 years of professional experience
- M.B.A.in finance from the University of Massachusetts
- B.A. in communications from the University of Massachusetts
- CMT charterholder

Vincent Tang – Assistant Vice President, Associate Portfolio Manager, Research

- 6 years of investment experience
- M. Eng. in financial engineering from Cornell University
- B. Econ in finance, with a minor in computer science, from Wuhan University

James Toppa, CFA, CAIA – Assistant Vice President, Associate Portfolio Manager, Implementation

- 15 years of professional experience
- B.S. in business administration from Bryant University
- CAIA charterholder
- CFA charterholder

Chong Chen – Assistant Vice President, Senior Analyst, Integration

- 8 years of professional experience
- M.A. in mathematics of finance from Columbia University
- M.S. in economics from Shanghai Jiao Tong University
- B.S. in finance and mathematics from Wuhan University

Anh Huynh – Assistant Vice President, Senior Analyst, Integration

- 9 years of professional experience
- M.Sc. in mathematics from the University of Washington
- B.Sc. in mathematics from MIT

Aashir Naqvi - Assistant Vice President, Senior Analyst, Implementation

- 4 years of professional experience
- B.S. in industrial engineering from Northeastern University

Diego Torres Patino, Ph.D. – Assistant Vice President, Senior Analyst, Implementation

- 8 years of investment experience
- Ph.D. in economics from Stanford University
- B.S. degrees in industrial engineering and in economics from Instituto Tecnologico Autonomo de Mexico

Steven Wang – Assistant Vice President, Senior Analyst Acadian Asset Management (Australia) Limited

- 16 years of professional experience
- Bachelor of Engineering (software engineering), First Class Honours, from the University of New South Wales
- Bachelor of Commerce (finance) from the University of New South Wales

Rajasekar (Raj) Karuppiah – Assistant Vice President, Data Engineer

- 17 years of professional experience
- B.E. in electrical and electronics engineering from Anna University, Chennai, India

lan Chong, CFA – Assistant Vice President, Analyst, IPD Acadian Asset Management (Singapore) Pte Ltd

- 6 years of professional experience
- Master of IT in business (artificial intelligence) from Singapore Management University
- M.S. in applied finance from Singapore Management University
- Specialist diploma in data science (artificial intelligence) from Singapore Polytechnic
- Bachelor of Business and Commerce from Monash University
- CFA charterholder

Jianing Duan - Assistant Vice President, Analyst, Research

- 5 years of professional experience
- Ph.D. in mathematical finance from Boston University
- MSc in financial mathematics from University of Chicago
- BSc in applied mathematics from Peking University

Jerry Yu, Ph.D. - Assistant Vice President, Analyst, ESG

- 3 years of investment experience
- Ph.D. in political science and scientific computing from the University of Michigan
- M.A. in statistics from the University of Michigan
- M.A. in political science from Peking University
- B.A. in economics and political science from Peking University





Annual Performance Disclosure

Emerging Markets Equity Composite

preparing GIPS reports are available upon request.

				Three-Year ex-Post Standard							
	Composite	Composite Dispersion of Deviation of Absolute Gross Returns Number		Number of	Assets In	Assets Under					
	Return (%)	Return (%)	Benchmark	Returns Within			Portfolios in	Composite	Management		
	Gross-of-Fees	Net-of-Fees	Return (%)	Composite (%)	Composite	Benchmark	Composite	(\$MMs)	(\$MMs)		
2013	-1.1	-2.1	-2.6	1.5	19.2	19.0	26	17,206	65,153		
2014	2.6	1.6	-2.2	1.4	15.7	15.0	29	18,467	70,339		
2015	-16.0	-16.8	-14.9	1.4	13.6	14.1	28	13,803	66,834		
2016	14.4	13.3	11.2	0.7	15.4	16.1	28	14,867	74,174		
2017	39.3	38.0	37.3	1.6	15.2	15.4	28	20,910	96,765		
2018	-17.4	-18.3	-14.6	0.8	15.0	14.6	28	17,421	85,338		
2019	18.0	16.9	18.4	1.0	14.9	14.2	30	19,615	101,232		
2020	13.5	12.4	18.3	1.2	19.6	19.6	29	19,336	107,229		
2021	8.5	7.4	-2.5	1.6	18.3	18.3	28	19,386	116,160		
2022	-19.8	-20.6	-20.1	1.7	20.9	20.3	25	13,589	92,796		

Performance Inception: January 1, 1994. This composite was created on: February 1, 1994. All figures stated in USD.

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<u>Dispersion and Standard Deviation</u>: Acadian's broad definitions are mainly the product of a highly customized process that may result in modest differences with regards to portfolio characteristics among constituents. All accounts managed with directly comparable investment objectives are included, though it's possible for members to utilize slightly different benchmarks in optimization and reporting. Although at times dispersion among constituents may be high, the long-term forecast for each portfolio is consistent with the overall composite. The 'Dispersion' statistic presented above uses gross of fee returns and is an annual, asset-weighted standard deviation calculation performed only on those portfolios who have been members for the entire calendar year. These figures are not applicable if there is only one portfolio in the composite for the full year. Thirty-six months are required to calculate the 'Three Year ex-Post Standard Deviation' statistic. These figures are not applicable if thirty-six months of composite returns are not available.

Composite Description: This composite invests in emerging equity markets with no developed markets exposure. Complete lists of the firm's composite descriptions, limited distribution pooled fund descriptions, and broad distribution funds are available upon request.

Benchmark Description: The benchmark for the composite is MSCI Emerging Markets wherein a combination of gross and net (of dividends and withholding taxes) is used since the net version isn't publicly available until January 2001. The net version of MSCI Emerging Markets was retroactively applied effective July 1, 2012. The MSCI Emerging Markets Index is a free float-adjusted market capitalization index that is designed to measure equity market performance of emerging markets. Index Source: MSCI Copyright MSCI 2024. All Rights Reserved. Unpublished. PROPRIETARY TO MSCI.

1Ashland Partners verified Acadian's GIPS Compliance claim through March 31, 2017. ACA Compliance Group acquired Ashland's GIPS Verification unit and provided subsequent verifications. GIPS® is a registered trademark of CFA Institute. CFA Institute does not endorse or promote this organization, nor does it warrant the accuracy or quality of the content contained herein.



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