SIM Fund Team A Investment Performance Final Presentation



Prepared by the Undergraduate Student Investment Management Fund - Team A Presented by Junjie Liu, and Ryan Davitt

Under the designation of Dr. Wahal Friday April 28th, 2023

888 Team Introduction



Fund Manager



Alondra Vasquez Caden Fricke Junjie Liu Korey Pettit Ethan Kibsey

Peter Andrews Rajeev Vemuri Ryan Davitt Ryan Vanderway Skene Black



Agenda

Investment Thesis

Portfolio Performance

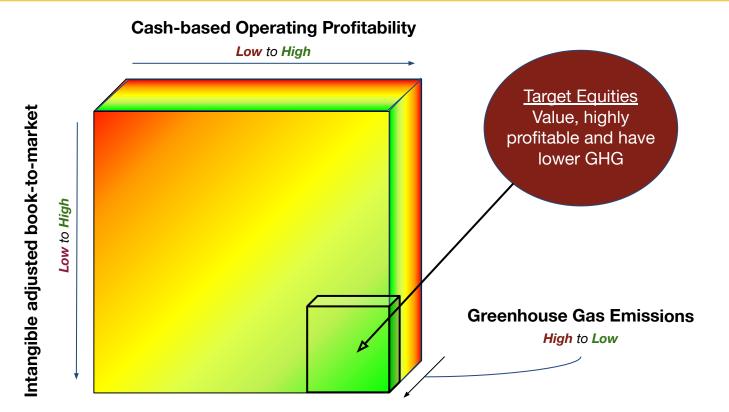
Lessons Learned



Investment Thesis

3 Main Components of our Investment Thesis





5

₩₩₩₩Walue & Profitability Monotonic ReturnPatterns



		Profitability										
		Weak 2 3 Robu										
	Growth	0.44	0.9	0.93	1.04							
Value	2	0.81	0.92	1.1	1.07							
	3	0.98	1.07	1.23	1.36							
	Value	1.14	1.31	1.37	1.68							

1940-2019 Avg Monthly Returns %





We will use **two emission metrics** to rank stocks in our portfolio



a Company





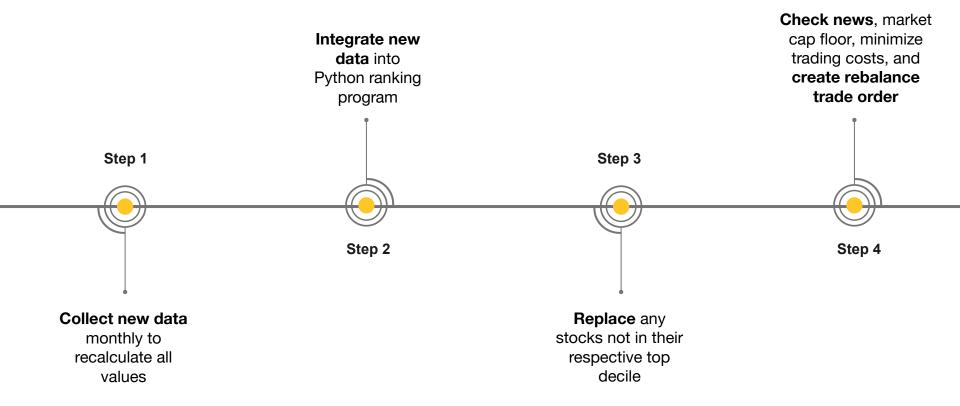


Stock	Value Percentile (40%)	Profitability Percentile (40%)	Emission Intensity (15%)	Absolute Emissions (5%)	Security Score (100%)
Α	90%	90%	50%	50%	82%
В	80%	80%	100%	100%	84%
С	70%	60%	-	-	65%

This ranking method was performed in each individual Sector



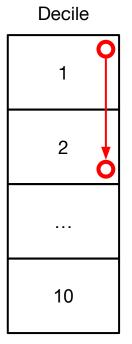


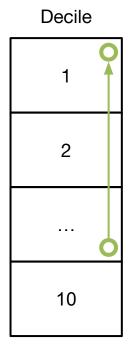


Decision Criteria During **Rebalances**



Decile 2 . . . 10











	iB/M	CbOP/Total Assets (t-1)	Absolute Emissions (M) ²	Emissions Intensity ³
Portfolio ¹	1.46	0.06	0.42	64.82
Universe ¹	0.75	0.01	1.26	187.32

¹Portfolio and universe metrics are weighted average by portfolio weights ²Absolute emissions are measured as millions of metric tons

³*Emissions intensity is absolute emissions divided by revenues (in millions)*



Portfolio Performance

Benchmarks Used

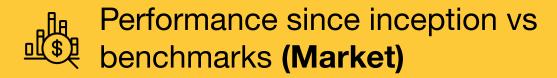


	Benchmarks	ESG Benchmarks
IWV (iShares Russell 3000 ETF) IWN (iShares Russell 2000 Value ETF)	Shadow Portfolio NSC* (Intangible Value, and Cash-Based Operating Profitability) Shadow Portfolio SC** (Intangible Value, and Cash-Based Operating Profitability) AVUV (Avantis US Small Cap Value ETF)	PABU US (iShares Paris - Aligned Climate MSCI USA ETF): Large-Mid Cap; Low-Carbon AVSU US (Avantis Responsible US Equity ETF): Multi-Cap ESG criteria

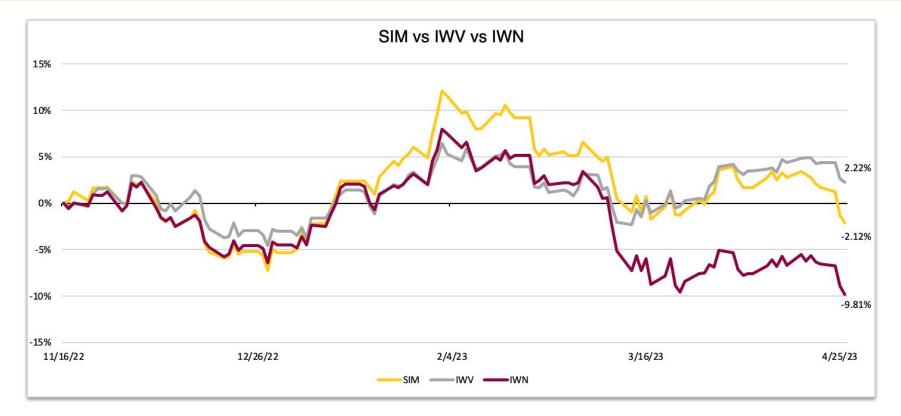


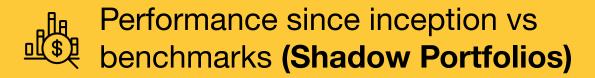


		Benchmark categories										
		Mai	rket		Value/Profi	ESG						
Metric/BM	SIM	IWV	IWN	AVUV	Shadow SC	Shadow NSC	PABU	AVSU				
Mkt. Cap (B)	13.50	42.52	1.70	1.15	2.57	2.38	33.24	26.35				
# Securities	50	2616	1371	721	50	49	310	1305				
P/B	1.7	3.49	1.16	1.27	1.37	1.43	2.79	3.11				
P/E	8.97	19.60	24.22	7.33	10.51	12.83	15.17	23.99				
Absolute (M)	0.41				1.05	1.46						
Intensity	64.82	144.15	182.09		190.76	313.72	27.83	42.51				

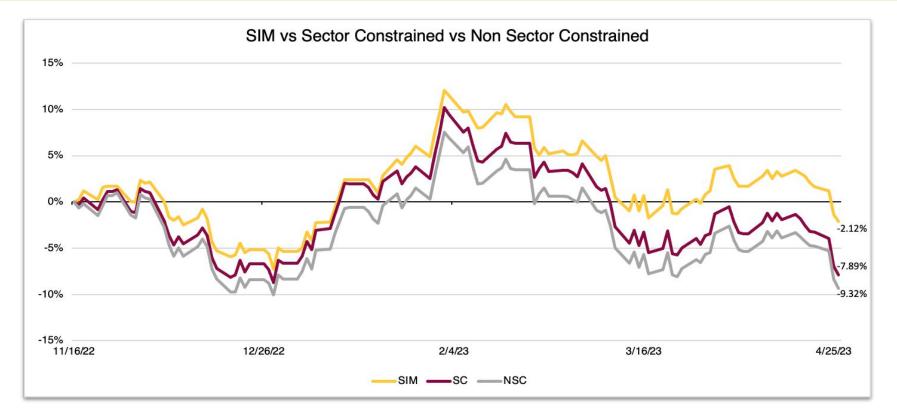






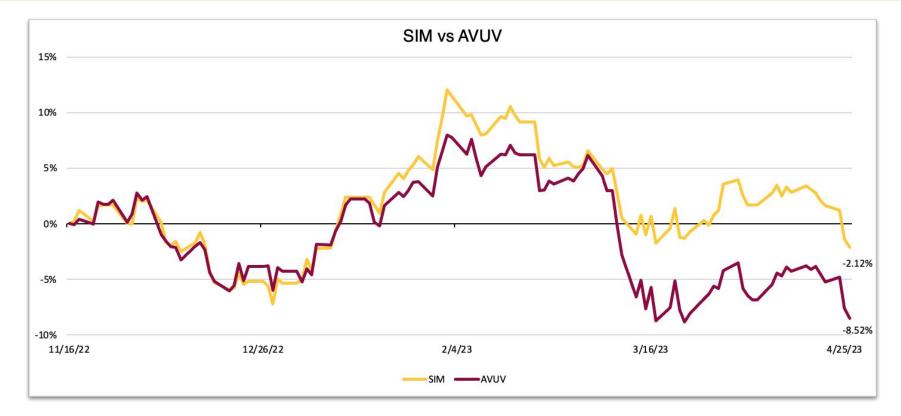


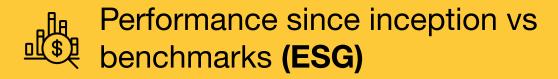




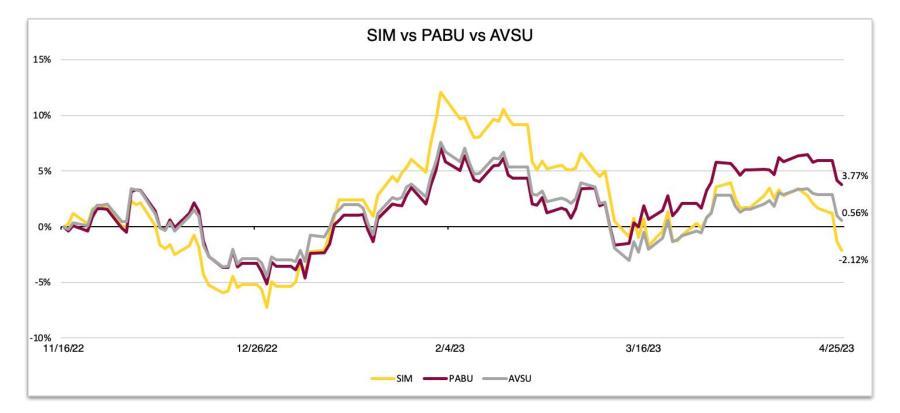
















		Avg % Wgt		Total Return (%)	Contribution to Return (%)	Allocation Effect (%)	Selection Effect (%)	Tot Attr
	Port	Bench	+/-	Port	Port			
SIM PORTFOLIO	100.00	100.00	0.00	-2.12	-2.12	-0.66	-3.68	-4.34
Information Technology	19.32	22.60	-3.29	3.90	0.63	-0.24	-1.92	-2.16
Financials	15.67	14.40	1.27	-0.07	-0.19	-0.03	0.85	0.81
Industrials	14.41	10.05	4.36	3.07	0.46	-0.21	0.73	0.53
Health Care	13.74	14.67	-0.92	-26.51	-4.28	-0.03	-4.32	-4.35
Consumer Discretionary	11.98	10.05	1.93	11.18	1.15	-0.01	0.92	0.91
Real Estate	5.90	3.25	2.65	-13.99	-1.06	-0.25	-0.74	-0.99
Materials	5.54	3.01	2.53	16.75	0.94	-0.11	1.05	0.94
Communication Services	4.75	7.17	-2.42	6.87	0.32	-0.22	-0.14	-0.37
Consumer Staples	4.61	6.69	-2.08	7.91	0.36	0.00	0.17	0.17
Not Classified	2.05	0.25	1.80	0.00	0.00	0.01	0.00	0.01
Energy	2.03	4.98	-2.96	-20.24	-0.45	0.37	-0.28	0.10
Utilities		2.87	-2.87			0.05	0.00	0.05



Problems and Lessons

The Art of Finance

Learning Opportunities:

- Late Rebalance
- Bloomberg Mistakes
- Day to Day Decisions
- Rule Implementation
- Trading Costs
- High Turnover
- Accounting for Emissions
- Data
- Stale Pricing
- Banking Industry

"If you're not making mistakes, then you're not doing anything" - John Wooden







	Weighted Average Absolute Emissions (mCO2t)	Weighted Average Emissions Intensity
Average	0.4	64.8
February Portfolio	1.1	129.3

Solution: Invest in Materials and Energy if Absolute and Intensity are at least top 50% percentile





It is all about the data!

- Know your sources
- Keep it organized
- Understand what you are looking at





Keep your prices updated! ... or you might end up on margin.

Custody Overview ASUF14 - ASUF - LTIP UNDERGR	AD SIM 2		
^{24 FEB 2023}	24 FEB 2023	24 FEB 2023	24 FEB 2023
Total Value	Unrealized Gain/Loss	Cash Balance	Funds
1,220,336.04	32,406.12	-4,943.34	0.00





	Change in Value for	Investment Securitie	s Cover	Ratio
	AFS: Change in Value	HTM: Change in Value	Cash to Interest Bearing Liabilities	Cash to Total Liabilities
Banking Industry Avg	-10.47%	-9.93%	2.58%	1.67%
TCBI	-12.84%	-12.68%	1.51%	0.92%
TCBI Percentile in Banking Industry	25.14%	37.41%	35.56%	28.26%



Questions?

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Appendix 1: V&P Return Patterns

Appendix 2: Intangible Book to Market Ratio

Appendix 3: Cash-based Operating Profitability

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Appendix 5: OP and CbOP Regression

Appendix 6: Value and Profitability Framework

Appendix 7: TCBI Investment Securities

Appendix 8: Portfolio Statistics vs Benchmarks

Appendix 9: Attribution Summary (vs IWV)

Appendix 10: GHG 3 Scope of Emissions

Appendix 11: Sector Allocation Mechanism

Appendix 12: Portfolio Turnover and Trading Cost

Value & Profitability Monotonic Return Arizo



		Profitability										
		Weak	2	3	Robust							
	Growth	0.44	0.9	0.93	1.04							
Value	2	0.81	0.92	1.1	1.07							
	3		1.07	1.23	1.36							
	Value	1.14	1.31	1.37	1.68							

1940-2019 Avg Monthly Returns %



Intangible Value - Adjusted B/M



Equation 1: Initialization at T-1

$$INT_{i0} = SGA_{i1}/(g + \delta)$$



Equation 2: Depreciate Starting at T = 0

$$INT_{it} = (1 - \delta)INT_{it-1} + SGA_{it}$$

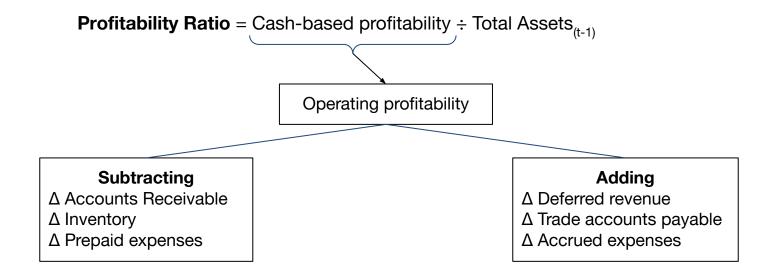
Equation 3: New Book to Equity_{INT}

$$\mathbf{B}_{it}^{INT} = \mathbf{B}_{it} - \mathbf{GDWL}_{it} + \mathbf{INT}_{it}$$

*Noted SGA is the sum of SG&A (organization capital) and R&D Expenses (knowledge capital)







Equation 4: Breakdown of the profitability ratio



Cash-based Operating Profitability



	Operating profitability				Accruals		Cash-based operating profitability		
	Excess	C	x	Excess	С	ť	Excess	C	X
Portfolio	return	CAPM	FF3	return	CAPM	FF3	return	CAPM	FF3
		Мо	nthly exce	ess returns	and alpha	is			
1 (low)	0.29	-0.35	-0.45	0.68	0.11	0.19	0.16	-0.50	-0.55
2	0.42	-0.09	-0.21	0.61	0.12	0.13	0.36	-0.19	-0.30
3	0.52	0.04	-0.13	0.53	0.06	0.10	0.46	-0.02	-0.11
4	0.49	0.03	-0.10	0.55	0.07	0.06	0.52	0.02	-0.09
5	0.51	0.03	-0.01	0.61	0.15	0.12	0.59	0.11	0.02
5	0.58	0.11	0.05	0.57	0.11	0.11	0.44	-0.02	-0.08
7	0.54	0.05	-0.02	0.58	0.11	0.15	0.61	0.14	0.09
3	0.67	0.16	0.16	0.45	-0.05	-0.03	0.61	0.12	0.12
9	0.53	0.04	0.08	0.46	-0.11	-0.02	0.62	0.11	0.17
10 (high)	0.58	0.07	0.29	0.32	-0.32	-0.20	0.64	0.14	0.35
10 – 1	0.29	0.42	0.74	-0.35	-0.43	-0.39	0.47	0.65	0.89

Profitability Spanning Regressions

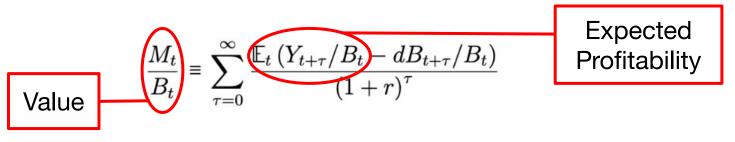


Explanatory	Regression							
variable	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Operating profitability	2.99	2.55		2.55			0.80	
	(8.86)	(7.04)		(7.09)			(1.56	
Accruals			-1.41	-1.58		0.15		
			(-3.90)	(-4.45)		(0.34)		
Cash-based operating profitability					2.60	2.54	1.91	
					(9.69)	(7.40)	5.27	
log(BE/ME)	0.42	0.36	0.21	0.33	0.33	0.32	0.33	
	(5.80)	(5.08)	(3.28)	(4.66)	(4.76)	(4.53)	(4.73	
log(ME)	-0.08	-0.09	-0.09	-0.10	-0.10	-0.10	-0.10	
	(-2.07)	(-2.35)	(-2.24)	(-2.66)	(-2.59)	(-2.69)	(-2.59	
r _{1, 1}	-3.03	-3.23	-3.34	-3.30	-3.27	-3.32	-3.28	
50 % al	(-6.97)	(-7.49)	(-7.76)	(-7.72)	(-7.58)	(-7.78)	(-7.66	
$r_{12, 2}$	1.03	0.95	0.86	0.91	0.92	0.91	0.92	
12 1	(5.69)	(5.30)	(4.81)	(5.12)	(5.11)	(5.08)	(5.15)	
Adjusted R ²	5.6%	5.5%	5.2%	5.7%	5.4%	5.6%	5.6%	





- Miller-Modigliani (1961): Market value (Mt) is the present value of expected future cash flows
- With clean-surplus accounting, future cash flows equals to future earnings (Y_{t+τ}) minus future expected investment (dB_{t+τ})



Equation 5: Value and Profitability

TCBI Investment Securities



(3) Investment Securities

The following is a summary of the Company's investment securities:

(in thousands)	Amortized Cost(1)	Gross Unrealized Gains		Gross Unrealized Losses	Estimated Fair Value
December 31, 2022					
Available-for-sale debt securities:					
U.S. Treasury securities	\$ 698,769	\$	— \$	(28,187)	\$ 670,582
U.S. government agency securities	125,000		<u></u>	(22,846)	102,154
Residential mortgage-backed securities	2,162,364		3	(331,320)	1,831,047
Tax-exempt asset-backed securities			-	—	<u> </u>
CRT securities	14,713			(2,852)	11,861
Total available-for-sale debt securities	3,000,846		3	(385,205)	2,615,644
Held-to-maturity debt securities:					
Residential mortgage-backed securities	935,514		<u> </u>	(118,600)	816,914
Total held-to-maturity debt securities	935,514			(118,600)	816,914
Equity securities					33,956
Total investment securities(2)					\$ 3,585,114
December 31, 2021					
Available-for-sale debt securities:					
U.S. government agency securities	\$ 125,000	\$	- \$	(4,056)	\$ 120,944
Residential mortgage-backed securities	3,288,261		156	(63,039)	3,225,378
Tax-exempt asset-backed securities	170,626	9,	407	_	180,033
CRT securities	14,713		<u></u>	(2,867)	11,846
Total available-for-sale debt securities	3,598,600	9,	563	(69,962)	3,538,201
Equity securities					45,607
Total investment securities(2)					\$ 3,583,808





		Benchmark categories								
		Ma	rket	,	Value/Profi	ESG				
Metric/BM	SIM	IWV	IWN	AVUV	Shadow SC	Shadow NSC	PABU	AVSU		
Mkt. Cap (B)	15.50	42.52	1.70	1.15	2.57	2.38	33.24	26.35		
# Securities	50	2616	1371	721	50	49	310	1305		
P/B	1.7	3.49	1.16	1.27	1.37	1.43	2.79	3.11		
P/E	8.97	19.60	24.22	7.33	10.51	12.83	15.17	23.99		
Absolute (M)	0.10				0.25	0.46				
Intensity	18.86	144.15	182.09		190.76	313.72	27.83	42.51		

Attribution Summary (vs IWV)



	Avg % Wgt			Total Return (%)	Contribution to Return (%)	Allocation Effect (%)	Selection Effect (%)	Tot Attr
	Port	Bench	+/-	Port	Port			
SIM PORTFOLIO	100.00	100.00	0.00	-2.12	-2.12	-0.66	-3.68	-4.34
Information Technology	19.32	22.60	-3.29	3.90	0.63	-0.24	-1.92	-2.16
Financials	15.67	14.40	1.27	-0.07	-0.19	-0.03	0.85	0.81
Industrials	14.41	10.05	4.36	3.07	0.46	-0.21	0.73	0.53
Health Care	13.74	14.67	-0.92	-26.51	-4.28	-0.03	-4.32	-4.35
Consumer Discretionary	11.98	10.05	1.93	11.18	1.15	-0.01	0.92	0.91
Real Estate	5.90	3.25	2.65	-13.99	-1.06	-0.25	-0.74	-0.99
Materials	5.54	3.01	2.53	16.75	0.94	-0.11	1.05	0.94
Communication Services	4.75	7.17	-2.42	6.87	0.32	-0.22	-0.14	-0.37
Consumer Staples	4.61	6.69	-2.08	7.91	0.36	0.00	0.17	0.17
Not Classified	2.05	0.25	1.80	0.00	0.00	0.01	0.00	0.01
Energy	2.03	4.98	-2.96	-20.24	-0.45	0.37	-0.28	0.10
Utilities		2.87	-2.87			0.05	0.00	0.05

3 Scope of Emissions



Scope 1: Direct GHG emissions

Direct GHG emissions occur from sources that are owned or controlled by the company, for example, emissions from combustion in owned or controlled boilers, furnaces, vehicles, etc.; emissions from chemical production in owned or controlled process equipment.

Scope 2: Electricity indirect GHG emissions

<u>Scope 2 accounts for GHG emissions from the generation of purchased electricity consumed by the company</u>. Purchased electricity is defined as electricity that is purchased or otherwise brought into the organizational boundary of the company. Scope 2 emissions physically occur at the facility where electricity is generated.

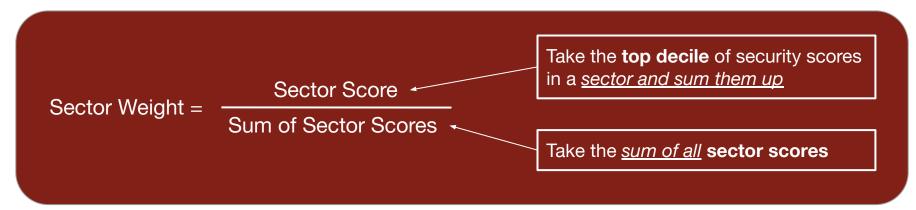
Scope 3: Other indirect GHG emissions

<u>Scope 3 is an optional reporting category that allows for the treatment of all other indirect emissions</u>. Scope 3 emissions are a consequence of the activities of the company, but occur from sources not owned or controlled by the company. Some examples of scope 3 activities are extraction and production of purchased materials; transportation of purchased fuels; and use of sold products and services.





Ideal Sector Allocation Equation

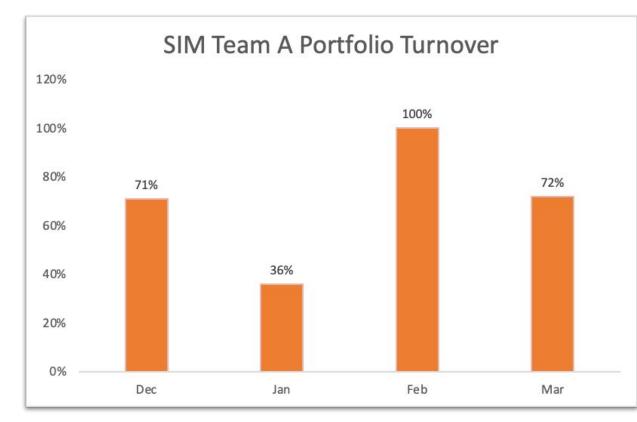


Equation 7: Breakdown of the sector weight

Sectors must stay in compliance to a $\pm 7.5\%$ requirement (threshold of $\pm 5.5\%$) compared to the Russell 3000 sector allocation.

Turnover and Trading Cost





Trading Costs: The trading costs are either .015 cents per share or a flat \$9 if it less than 600 shares

April 28th, 2023

Spring 2023 Undergraduate SIM Fund Presentation

Under the designation of Dr. Sunil Wahal & Jacob Nance



Team Introduction



Analysts

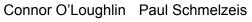
Fund Manager



Jacob Nance









Cal Frank



Hunter Shulman Connor Voightmann



Will Harmon





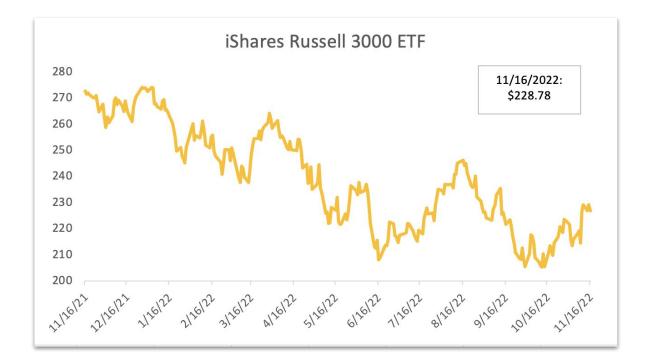
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Strategy Overview

Investment Thesis: Downside Risk





Calculation of Downside Beta

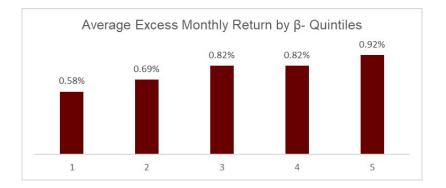


 r_i = security excess returns $\vec{r_m}$ = market excess returns μ_m = average market excess return $\beta^{-} = \frac{\operatorname{cov}(r_i, r_m | r_m < \mu_m)}{\operatorname{var}(r_m | r_m < \mu_m)}$



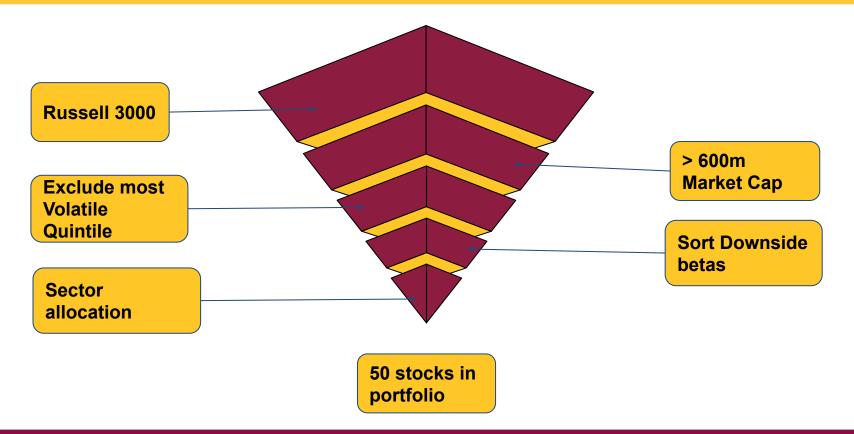
Because they are loss averse, investors demand additional compensation for holding stocks with high downside risk.

Ang, Chen, and Xing show that if the most volatile stocks are excluded, stocks with high downside risk earn higher average returns than those with low downside risk, measured by β^- .



Selection

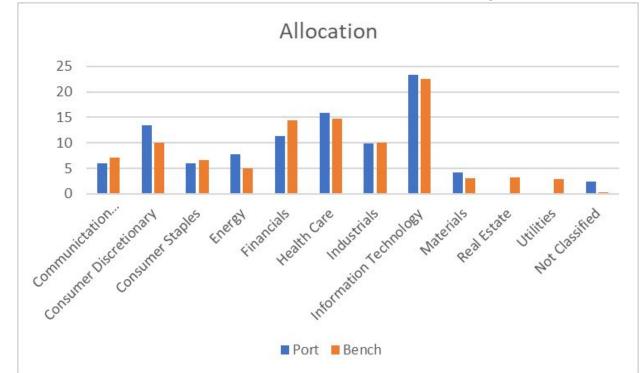




Allocation & Market Weights



*Weights are based on the Russell 3000



Performance

Portfolio Performance

SIM NOV: SIM NOV POR 🔹 vs ISHARES RUSSE 🔹 by GICS Sectors 🔹 in USD 💌

Time Maxin 🔹 11/16/22 📑 - 04/26/23 📑





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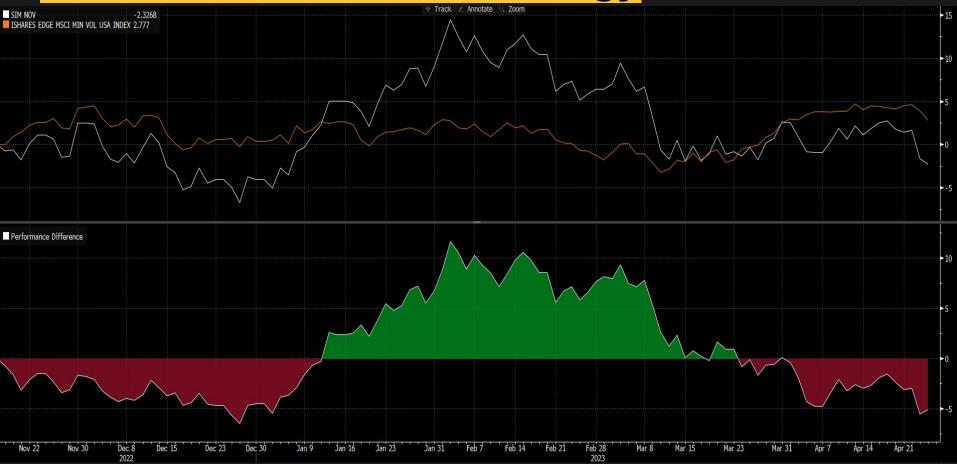
Low Volatility Strategy



- Defensive strategies
- Low Volatility vs. Downside Risk
 - Construction
 - Measurement
 - Security selection
- Performance

Portfolio vs. Low Vol Strategy

*MSCI Min Vol USA Index





Attribution: % to Total Return



Name	Avg % Wgt			Tot Rtn			
	Port	Bmrk	+/-	Port	Bmrk	+/-	
SIM NOV	100.00	100.00	0.00	-2.33	2.22	-4.55	
 Information Technology 	23.36	22.60	0.76	4.63	12.20	-7.57	
► Materials	4.14	3.01	1.13	25.25	-0.89	26.14	
 Consumer Staples 	5.98	6.69	-0.72	9.42	3.77	5.65	
 Consumer Discretionary 	13.48	10.05	3.43	1.57	2.02	-0.45	
 Not Classified 	2.33	0.25	2.07	0.00	0.07	-0.07	
 Health Care 	15.83	14.67	1.16	0.00	0.33	-0.33	
 Industrials 	9.90	10.05	-0.15	-3.12	-1.57	-1.54	
 Communication Services 	5.95	7.17	-1.22	-10.63	10.89	-21.52	
► Energy	7.68	4.98	2.70	-17.55	-9.31	-8.24	
 Financials 	11.36	14.40	-3.04	-23.42	-6.48	-16.95	
 Real Estate 		3.25	-3.25		-3.01	3.01	
 Utilities 		2.87	-2.87		0.73	-0.73	

Attribution: Effects

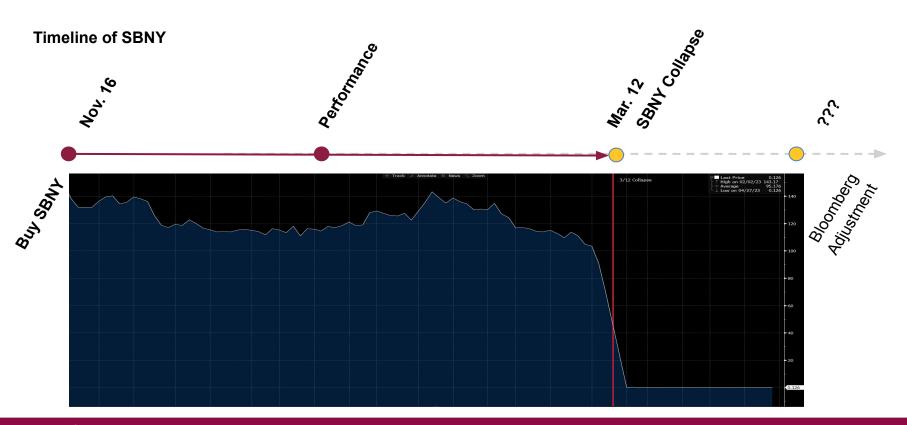


Name	Alloc	Selec	Curr	Tot Attr
SIM NOV	0.29	-4.84	0.00	-4.55
 Information Technology 	0.18	-1.67	0.00	-1.50
 Materials 	-0.04	1.03	0.00	0.99
 Consumer Staples 	-0.01	0.32	0.00	0.31
 Consumer Discretionary 	0.04	-0.07	0.00	-0.03
Not Classified	-0.07	0.00	0.00	-0.07
 Health Care 	0.06	-0.09	0.00	-0.02
 Industrials 	0.01	-0.13	0.00	-0.12
 Communication Services 	-0.05	-1.33	0.00	-1.39
Energy	-0.32	-0.70	0.00	-1.02
Financials	0.29	-2.20	0.00	-1.91
Real Estate	0.16	0.00	0.00	0.16
Utilities	0.04	0.00	0.00	0.04

SBNY Case Study

SBNY Case Study





Lessons Learned

Lessons Learned



Verify Calculations

Bloomberg downside risk

Returns Are Noisy

Short trading period

Trading Timeliness

An important part of portfolio management

Document Processes

Monthly rebalance, meeting notes, and due diligence

Questions & Comments

Thank you!



Turnover

Turnover due to	December	January	February	March
Volatility	2	10	0	3
β-	11	1	14	9
Total	13 (26%)	11 (22%)	14 (28%)	12 (24%)





<mark>β– each month</mark>

Баааа	β^{-} by sector					
R3000	ho by sector	Nov	Dec	Jan	Feb	Mar
6%	Energy	1.15	1.06	1.01	1.08	1.08
3%	Materials	0.97	0.96	0.98	1.01	1.00
10%	Industrials	0.98	0.98	0.98	1.00	0.98
10%	Consumer Discretionary	1.19	1.17	1.18	1.20	1.14
6%	Consumer Staples	0.63	0.64	0.66	0.68	0.70
16%	Health Care	0.85	0.87	0.85	0.86	0.89
12%	Financials	0.75	0.76	0.75	0.78	0.77
24%	Information Technology	1.10	1.09	1.08	1.08	1.10
6%	Communications	0.86	0.88	0.87	0.90	0.91
3%	Utilities	0.48	0.47	0.48	0.48	0.53
4%	Real Estate	0.86	0.88	0.86	0.91	0.93





Low Volatility vs. Downside Risk

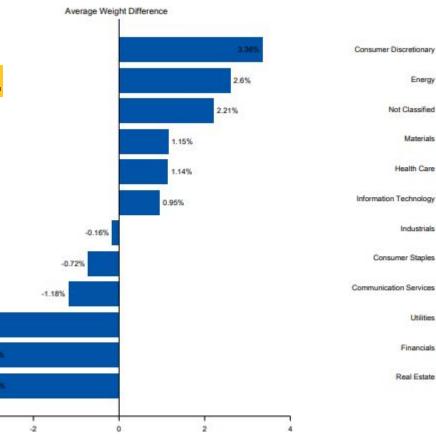
- The Low Volatility isolates the lowest volatility stocks which carry low expected return. This is where downside risk differs. The goal of low vol is taking a defensive position against the volatility of stocks in down markets and accept the lower return; downside risk has the goal of attaining greater future gains while mitigating severe losses during down markets
- The strategies are similar in that they can be utilized in the same type of market environment
- Downside risk strategy allows investors to capitalize on the greater expected future returns that we identify
 - Strategy goes against the common financial behavior to avoid risk



Portfolio Sector Weighting vs.

-2.87%

Russell 3000





Appendix: Unconstrained Downside Performance





Tracking Error

SIM NOV: SIM	NOV POR vs ISHARES RU	SSE • by GICS Sectors • in USD	y	As of 11/16/22				
Name	 Integrated Mul Unit Unit 		% Wgt	Scaling <mark>1 Year •</mark> •	Gross Active Weight	Total Risk	Contribution (%)	Beta (ex-ante)
		Port	Bmrk	+/-	+/-	+/-	+/-	Port
Q SIM NO		100.00	100.00	0.00	190.62	13.91	100.00	1.34
, r ► Co	ommunication Services	5.86 13.36	6.93 10.12	-1.06 3.23	12.80 19.37	1.67 2.87	2.49 15.50	1.20 1.52
📊 🗼 En	onsumer Staples hergy	5.84 7.61	6.73 5.44	-0.89 2.17	12.51 12.44	1.33 2.01	5.32 9.86	0.83 1.48
📕 🔸 He	nancials ealth Care	11.26 15.47	14.75 14.68	-3.48 0.79	25.91 29.57	2.07 3.56	9.94 17.62	1.45 1.19
👔 🕠 In	dustrials formation Technology	9.57 22.48	10.09 21.96	-0.51 0.51	19.57 41.24	2.03 4.47	9.24 26.14	1.36 1.58
📊 🕨 Re	aterials eal Estate	3.90	3.00 3.24	0.90 -3.24	6.41 3.25	1.66 0.82	7.74 -2.96	1.75
	tilities ot Classified	4.65	2.86 0.22	-2.86 4.43	2.87 4.67	0.60 0.01	-0.86 -0.02	0.00



Coskewness

Equally-weighted portfolios emphasize the differences between downside risk and coskewness.

Results of Fama-MacBeth (1973) regressions of 12-month excess returns on firm characteristics and realized-risk characteristics (Ang Downside Risk)



Arizona State University

Table 2Fama-MacBeth Regressions

Model	Ι	II	III	IV	v	VI	Mean (Std Dev)
Intercept	0.300	0.044	0.054	0.046	0.246	0.257	
20	[9.35]	[3.39]	[1.66]	[1.42]	[7.62]	[7.79]	
β	0.177						0.828
	[8.19]						(0.550)
β^{-}		0.069	0.064	0.028	0.062	0.056	0.882
		[7.17]	[7.44]	[2.68]	[6.00]	[5.25]	(0.739)
β^+		-0.029	-0.025	0.003	0.020	0.017	0.722
		[4.85]	[4.15]	[0.22]	[2.33]	[1.91]	(0.842)
Log-size	-0.039		-0.007	-0.013	-0.034	-0.034	5.614
U	[8.82]		[1.47]	[3.03]	[7.77]	[7.39]	(1.523)
Bk-Mkt	0.017		0.024	0.023	0.017	0.018	0.768
	[3.87]		[5.17]	[5.03]	[3.67]	[3.76]	(0.700)
Past Ret	0.017		0.063	0.053	0.020	0.015	0.085
	[1.91]		[6.32]	[5.40]	[2.12]	[1.50]	(0.370)
Std Dev	-8.433		[010-]	[0110]	-5.781	-6.459	0.355
Stu Det	[10.7]				[6.41]	[7.04]	(0.174)
Coskewness	-0.229			-0.181	-0.196	-0.188	-0.179
COSKewness	[10.7]			[4.31]	[5.07]	[4.59]	(0.188)
Cokurtosis	0.015			[4.51]	0.045	0.047	2.240
Conditions	[1.57]				[4.40]	[4.52]	(1.353)
B	[1.57]				[4.40]	-0.008	-0.166
β_L							
						[0.93]	(0.456)

Asset Detail: First 25

Description	Super Category Cod
UNITED STS STL CORP NEW COM	5
GLOBALFOUNDRIES INC	5
B RILEY FINL INC COM	5
FORTINET INC COM	5
AMAZON COM INC COM	5
PENN ENTERTAINMENT INC	5
BRINKER INTL INC COM	5
DANA INC COM	5
NVIDIA CORP COM	5
XPO LOGISTICS INC COM	5
DEVON ENERGY CORP NEW COM	5
CARLYLE GROUP INC COM	5
JACKSON FINANCIAL INC CL A COM	5
OCCIDENTAL PETROLEUM CORP	5
E L F BEAUTY INC COM	5
APA CORP COM	5
UNIVERSAL DISPLAY CORP COM	5
CHINOOK THERAPEUTICS INC COM USD0.0001	5
AMERICAN AIRLINES INC COM USD1	5
LIBERTY ENERGY INC COM USD0.01 CL A	5
LATTICE SEMICONDUCTOR CORP COM	5
GOGO INC COM	5
ADVANCED MICRO DEVICES INC COM	5
SIGNATURE BK NY N Y COM	5



Name	\$ Allocation	
UNITED STS STL CORP NEW COM	\$22,549.89	
GLOBALFOUNDRIES INC	\$21,853.25	
B RILEY FINL INC COM	\$21,644.47	
FORTINET INC COM	\$22,442.44	et ' = As of Date - Accrued Market V
AMAZON COM INC COM	\$22,594.81	0.02100000
PENN ENTERTAINMENT INC	\$22,734.80	0.01910000
BRINKER INTL INC COM	\$22,208.44	0.01920000
DANA INC COM	\$22,028.97	0.01840000
NVIDIA CORP COM	\$22,083.66	0.01770000
XPO LOGISTICS INC COM	\$21,890.04	0.02010000
DEVON ENERGY CORP NEW COM	\$22,043.75	0.01860000
CARLYLE GROUP INC COM	\$22,481.51	0.01840000
JACKSON FINANCIAL INC CL A COM	\$22,125.04	0.01800000
		0.01960000 0.01960000
OCCIDENTAL PETROLEUM CORP	\$22,136.50	0.01830000
E L F BEAUTY INC COM	\$23,333.97	0.02130000
APA CORP COM	\$22,247.45	0.01830000
UNIVERSAL DISPLAY CORP COM	\$22,028.60	0.01890000
CHINOOK THERAPEUTICS INC COM USD0.0001	\$22,802.70	0.01890000
AMERICAN AIRLINES INC COM USD1	\$22,129.89	0.01840000
LIBERTY ENERGY INC COM USD0.01 CL A	\$22,060.41	0.01930000
LATTICE SEMICONDUCTOR CORP COM	\$21,792.22	0.01970000
GOGO INC COM	\$22,532.56	0.01800000
ADVANCED MICRO DEVICES INC COM	\$21,681.46	
SIGNATURE BK NY N Y COM	\$21,350.32	
WINGSTOP INC COM	\$22,483.97	1

Asset Detail: Second 25

Description	Super Category Cod	Super C
WINGSTOP INC COM	5	Equities
COTY INC COM CL A COM CL A	5	Equities
ZIPRECRUITER INC CL A CL A	5	Equities
CYTEK BIOSCIENCES INC COM	5	Equities
AVID TECHNOLOGY INC COM	5	Equities
H & E EQUIP SVCS INC COM	5	Equities
INSPIRE MED SYS INC COM	5	Equities
BLUEPRINT MEDICINES CORP COM	5	Equities
MAXLINEAR INC COMMON STOCK	5	Equities
LIBERTY LATIN AMERICA LTD COM USD0.01 CLASS C	5	Equities
CLEVELAND CLIFFS USD0.125	5	Equities
BUILDERS FIRSTSOURCE INC COM STK	5	Equities
MONOLITHIC PWR SYS INC COM	5	Equities
ARES MANAGEMENT LP COM SHS REPSTG LTD PARTNER	5	Equities
SYNAPTICS INC COM	5	Equities
SAGE THERAPEUTICS INC COM	5	Equities
ALIGN TECHNOLOGY INC COM	5	Equities
ROCKET COS INC CL A CL A	5	Equities
INTUITIVE SURGICAL INC COM NEW STK	5	Equities
MARVELL TECHNOLOGY INC COM	5	Equities
SIX FLAGS ENTMT CORP NEW COM	5	Equities
AIRBNB INC CL A COM USD0.0001 CL A	5	Equities
DARLING INGREDIENTS INC COMSTK	5	Equities
ON SEMICONDUCTOR CORP COM	5	Equities
AXONICS INC COM	5	Equities
VERITIV CORP COM	5	Equities
MFC ISHARES TRUST RUSSELL 3000 ETF	5	Equities
United States dollar	90	Cash an



Name	\$ Allocation	
COTY INC COM CL A COM CL A	\$22,647.96	
ZIPRECRUITER INC CL A CL A	\$22,718.08	
CYTEK BIOSCIENCES INC COM	\$22,582.73	
AVID TECHNOLOGY INC COM	\$22,734.84	Accrued Market Va
H & E EQUIP SVCS INC COM	\$22,664.32	
INSPIRE MED SYS INC COM	\$22,820.40	
BLUEPRINT MEDICINES CORP COM	\$22,342.93	
MAXLINEAR INC COMMON STOCK	\$21,671.28	
LIBERTY LATIN AMERICA LTD COM USD0.01 CLASS C	\$23,585.65	
CLEVELAND CLIFFS USD0.125	\$22,486.39	
BUILDERS FIRSTSOURCE INC COM STK	\$22,453.65	
MONOLITHIC PWR SYS INC COM	\$21,236.87	
ARES MANAGEMENT LP COM SHS REPSTG LTD PARTNER	\$22,387.64	
SYNAPTICS INC COM	\$21,522.33	
SAGE THERAPEUTICS INC COM	\$23,059.53	
ALIGN TECHNOLOGY INC COM	\$21,833.93	
ROCKET COS INC CL A CL A	\$21,144.73	
INTUITIVE SURGICAL INC COM NEW STK	\$22,551.27	
MARVELL TECHNOLOGY INC COM	\$21,496.50	
SIX FLAGS ENTMT CORP NEW COM	\$22,102.20	
AIRBNB INC CL A COM USD0.0001 CL A	\$22,372.82	
DARLING INGREDIENTS INC COMSTK	\$22,034.66	
ON SEMICONDUCTOR CORP COM	\$21,830.69	
AXONICS INC COM	\$22,379.13	
VERITIV CORP COM	\$22,810.09	

