

# Waleed Aly

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## WORK & EXPERIENCE

### **CoBo Trading Group (*Acquired by George E Warren Corporation*)**

**February 2016 - Present**

#### **Trading Group (Co-Founder)**

- Strategies rooted in volume-based technical analysis, enhanced with macroeconomic and cross-product correlation analysis
- Utilized machine learning, algorithmic, and discretionary methods to analyze the markets and execute trades
- CoBo acquired by George E Warren in March of 2019
  - GEW is one of the largest privately held companies in Florida with over 100 years trading physical energy products
  - Acquired to establish GEW's first futures trading division, marrying our technical knowledge of the futures market with their domain knowledge of the cash/physical market

#### **Discretionary Trading**

- Traded a wide array of markets across all sectors
  - Foreign Exchange: All G10 and emerging market currencies as well as all major crosses
  - Energy: Crude Oil, Gasoline, Heating Oil, Gas Oil, Natural Gas, and all calendar spreads
  - Agriculture: Soybeans, Soybean Oil, Soybean Meal, Corn, Wheat, Live Cattle, Lean Hogs
  - Metals: Gold, Silver, Copper
  - Rates: US Treasury futures: 2yr, 5yr, 10yr, 30yr

#### **Algorithmic Trading**

- Sole architect of a complete in-house back-testing framework through Python
  - Included optimization and walk-forward framework to validate potential trading strategies
- Personally designed, tested, and implemented a variety of in-house, proprietary trading algorithms
  - Employed several fully-automated, "always-on" systems
  - Employed several semi-automated systems with activation criteria dependent on market conditions

#### **Modeling/Machine Learning**

- Designed proprietary pricing models for the energy sector
  - Machine Learning Methods: SVM, Random Forest, XGBoost, Artificial Neural Networks
  - Objectives: Identify price dislocations in the market to signal discretionary trading opportunities
  - Applications: Models incorporated into select algorithms to assess market conditions and govern trade sizing

### **Jefferies (*MBS Trader*)**

**August 2009 - February 2016**

#### **Specified Pools Trading (January 2014 – February 2016)**

- Responsible for trading all Tenors: 10yr, 15yr, 20yr, 30yr
- Created complete trading platform from scratch
  - Built historical payoff database, empirical pricing model, and relative value framework
- Valuation: Utilized and built a variety of valuation methods and tools
  - Several valuation methodologies / hedging strategies utilizing a variety of products
  - Futures/Options: Treasuries, Mid-Curves, Fed Funds, Eurodollars

#### **Hybrid ARMs Trading (April 2010 – January 2014)**

- All agency products: FHLB, FNMA, GNMA
  - All sectors: Floaters, Seasoned, New Issues, TBAs
- ARM CMOs

- IO's, IIO's, Floaters
- Built the business from top to bottom: structured, sold, valued, and tied-out deals
- Many structures printed across a wide variety of collateral
- \*\* GN 5/1: Structured and sold first ever CMO with GN 5/1 collateral to market
- \*\* GN 3/1: Built a significantly sized/consistent strategy structuring GN 3/1 CMOs

#### **CMO Desk (August 2009 – April 2010)**

- Junior trader on the CMO desk
- Responsible for deal reconciliation, risk reporting, and P&L
- Created Excel-based hedge and risk reporting for specified pool inventory and secondary CMOs
- Automated the P&L process through Excel and VBA coding

#### **BNP Paribas (*Financial Analyst*)**

**November 2006 – August 2009**

- Primary P&L controller for the mortgage desk: ARMs, specified pools, TBAs
- P&L controller for the CMO and prop-trading desks
- Designed VBA-enhanced Excel spreadsheets to automate add value to the P&L process
- Developed a risk and accounting-based P&L system for the trading desks

#### **EDUCATION**

***Villanova University, Philadelphia, PA***

**Graduated 2006**

**Bachelor of Science, Mathematics  
Minor, Latin**

#### **ADDITIONAL SKILLS AND CERTIFICATIONS**

- **Certifications:** Series 7, Series 63
- **Computer Skills:** Excel, Python, Visual Basic, PolyPaths, Intex, Yieldbook, PowerPoint
- **Foreign Languages:** Arabic: proficient (speaking), German: currently studying