

Michael Ferrari, PhD

Founder & Managing Partner

Atlas Research Innovations

Atlas provides bespoke services to private and public sector clients. Domains include climate risk, agriculture, energy, water, environment, global macro/FinGeo, AI/ML, commodities, ESG/Sustainability, geospatial, innovation economics, data ethics

Contact information

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Portfolio/Writing:

www.atlasresearchinnovations.com

Skills & Competencies

- Data Science & Analytics
- Asset Evaluation
- Network & Geospatial Science
- Global Agriculture & Energy
- Climate, Weather & Water Risk
- ESG/Quant Thematic Investing
- Circular Economy
- Global Macro
- Risk Analysis
- Technology Commercialization
- NewSpace
- Data Ethics
- Technical Writing
- Public Speaking
- Innovation Economics

Data Science Tools

R, R-Studio, SAS/SPSS, XL_Stat, MATLAB, ERDAS, ArcInfo, ENVI, Gephi, SQL, Bloomberg Professional, QGIS, KnowledgeSeeker, AlphaSense

Experience

Global Head of Climate & Agronomic Decision Sciences

Syngenta New York, NY & Basel, Switzerland 2020-present

- As a member of the Digital Leadership Team, I am responsible for creating the vision and executing the roadmap for the Syngenta Digital & Syngenta Ventures global digital transformation.
- Built digital data science team, and developed capabilities and Insights Engine for company-wide analytics deployment.
- Provide the data science foundation for Syngenta's digital product & ventures portfolio to growers around the world.
- Chief Data Scientist for all AI/ML/Applied Science endeavors.
- Creating P&L center focusing on advanced analytical methods applied to Crop Protection, Seeds and Sustainability BUs.

Director, Market Intelligence

Point72 Asset Management New York, NY, 2017-2020

- Portfolio Investment Strategist: quantamental strategy development, signal generation & venture evaluation.
- Core member of leadership team creating a data center of expertise in the P72 Market Intelligence & Ventures divisions.
- Alternative data for alpha generation: IoT, weather, macro, remote sensing, infrastructure, geospatial, ESG, materials.
- Coverage: long/short equity, macro, commodities, ESG.
- 3 strategies: 10-15% return, alpha sharpe: 1.75, alpha% +5.1.

Head of Data Science

IBM/Watson Ads, The Weather Company New York, NY, 2016-2017

- Chief Data Scientist for IBM Watson Ads \$100MM BU.
- Data Science Evangelist, bridging IBM with external partners.
- Member of Digital Ventures evaluation leadership team.
- Launched first IBM company-wide STEM Re-entry program.
- Data Science team delivered +35% YoY product revenue increase.

Vice President, Senior Data Scientist

aWhere Boulder, CO 2015-2016

- Created commercial agricultural analytics business unit.
- Built Data Science team; developed product/sales roadmap.
- Authored technical papers: data science, ESG, remote sensing, macroeconomics, alternative data, technical risk management.

Global Director, Commodity Risk & Research

The Coca-Cola Company Atlanta, GA 2012-2015

- Director of commodity research for all raw materials and commodity exposures throughout the global CC supply chain.
- Saved >12% vs. planned cap spend for three consecutive years.
- Research supported futures trading and hedging exposures in coffee, sugar, grain, oilseed, dairy and energy commodities.
- Created supply chain data science Center of Expertise.
- Analytics leader for Global Sustainable Procurement (GSP) and Risk Management teams.

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Experience (cont'd)

External Affiliations

The Wharton School, University of Pennsylvania, Senior Fellow, 2019-present

FutureMap, Partner, 2018-present

Samasource, Advisor, 2017-present

University of Pennsylvania, Wharton IGEL Faculty Advisory Board, 2016-present

University of Pennsylvania, Graduate Faculty Member/Arts & Sciences, 2016-present

National Center for Atmospheric Research, Affiliate Scientist, 2016-present

MIT Media Lab, Affiliate Scientist/Advisor, 2016-2018

American Meteorological Society, Board Member, 2011 – 2019

Indie Bio, Mentor, 2014-2018

Certifications

Mountaineering Meteorology
Mount Washington Observatory
2007

Artificial Intelligence for Customer Analytics, The Wharton School, 2019

Director, Climate Informatics & Principal Data Scientist

Computer Science Corporation McLean, VA 2011-2012

- Directed CSC company-wide R&D efforts in Informatics/Data Science domains.
- Chief Data & Physical Scientist on applied climate modeling and informatics initiatives between CSC and the NASA Goddard Space Flight Center.
- Architect for Climate Data as a Service (CDaaS) roadmap and monetization model.
- Primary BD executive for CSC/NASA Data Services partnership.

Vice President, Applied Technology & Research

Weather Trends International Bethlehem, PA 2007 - 2011

- Senior corporate officer, developing and executing short and long term goals for growth, market position, product roadmap and strategic vision in global commodities and FinServ sectors.
- Managed PnL with revenues exceeding \$2MM per year via B2B syndicated subscription model.
- Frequent conference speaker on behalf of WTI: Climate/Wx, Agriculture, Sustainability, Data Science.
- External contributing subject matter expert on weather risk: Bloomberg, CNBC, WSJ, etc.

Senior Commodity Scientist/Trader

Mars, Inc. Hackettstown, NJ 2001-2007

- Research Director for Catalyst, Mars' macro research think tank.
- Supply Chain Procurement and Risk Management analytics for \$200MM commodity spend.
- Research responsible for annual +10-30MM gains in cocoa, sugar, corn, oilseed and energy trading.
- Authored white papers focusing on technical components of risk, climate & biophysics research, and applied data science.
- Developed quantitative methodologies for event-driven price risk management, climate/crop forecasting, global macro, supply optimization and sustainability strategies.
- Created trading tools, and market/economic analyses for several commodities including sugar, energy, grains/oilseeds, dairy, coffee, cocoa packaging materials & FX.

Education

NASA Goddard Inst. for Space Studies/Rutgers/Columbia, 2007-2008

Post-Doctoral research in Applied Mathematics & Fluid Dynamics

Rutgers, PhD 2007, MS 1996

Environmental Systems Science & Engineering. Programs in Environmental/Geophysical Fluid Dynamics & Biophysical Modeling

West Chester, BS 1991

Economics (+partial MA Economic Geography)

Men's ACHA D1 Ice Hockey team