

# QUINN MCCOLLY

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## PROFILE

I am a dedicated professional with many years of experience working independently, as part of a team, and managing others. I have extensive experience in both industry (10 years as a floor trader on the Chicago Stock Exchange) and higher education. I bring a unique perspective and depth of understanding of capital markets gained by extensive experience as market maker. This experience taught me skills in risk analysis, risk management, and instilled a type of intimate knowledge of markets that is only experienced by a few. As I segued into an advisory position, I broadened this base of market knowledge to include almost all financial products available. Exposure to this broader realm of capital markets allowed me to develop an understanding of the subtle interplay of how these instruments work in concert or as opposite forces. Returning to academia has allowed me to take this professional experience and sharpen the perspective by adding many analytic elements, such as: artificial intelligence, sustainability economics, and predictive modelling.

I am now in a position to combine the knowledge I have acquired from these two worlds and integrate them to use the practical knowledge of market function in the world of resource management, and use the applied aspects of artificial intelligence to inform these markets. I can apply this interdisciplinary approach to price hard to value assets and develop and grow novel market-based strategies for resources such as water.

## EDUCATION

### **Ph.D. Coastal and Marine System Science, Texas A&M-Corpus Christi, May 2020**

Concentration: Socioeconomics, Modelling, Water Markets

Dissertation: *Market Mechanisms and Efficient Allocation of Water: Modelling Water Prices, Option Contracts on Water, and Enhancing Frameworks*

Dissertation Advisors: David Yoskowitz, Ph.D., Paul Montagna, Ph.D., Philippe Tissot, Ph.D., Robert Mace, Ph.D.

### **M.S. Environmental Science, Texas A&M-Corpus Christi, 2017**

Concentration: Environmental Science

Thesis: *Evaluating the Interest of Buyers in a Voluntary Ecosystem Services Marketplace*

Thesis Advisors: David Yoskowitz, Ph.D., Rich McLaughlin, J.D., L.L.M., J.S.D., Jim Blackburn J.D.

### **B.G.S, Liberal Arts (minors History/Philosophy), A.S. Environmental Studies, Columbia College, Columbia, MO 2014**

## **TEACHING EXPERIENCE**

### **Instructor, Texas A&M University-Corpus Christi, 2020, 2015**

Courses: Issues in Environmental Science (ESCI 4202), Intro to Environmental Science Lab (1401)

## **WORK HISTORY**

### **2020 Postdoctoral Research Associate**

to *Harte Research Institute—Texas A&M-Corpus Christi*  
*pres.* Develop the Water Economics Program by developing water pricing models for Texas, creating materials for—and engaging in—outreach with stakeholders. Develop derivative style financial tools for the efficient allocation of water. Help implement the vision of the program and create a sustainable business model.

### **2015 Graduate Research Assistant**

to *Harte Research Institute—Texas A&M-Corpus Christi*  
**2020** Use statistical analysis to evaluate data, draw conclusions, and prepare and present briefings to various levels of management to communicate proposals, data analysis, and recommendations. I develop reports on various topics (such as feasibility of desalination and the economic impact of institutional activity) by performing research, synthesizing data, and distilling results for communication.

### **2013 Freelance Writer**

to *Lemoore Navy News*  
**2015** Wrote and sold for publication over fifty articles on a wide range of topics including reporting on technical issues such as the arrival of the F35C Lightning II to NAS Lemoore. Regularly interfaced with high ranking naval officers and liaised with their subordinates to verify facts.

### **2012 Financial Advisor**

to *First Command Financial Services*  
**2013** I helped clients plan for their financial future by selling them a variety of appropriate investment products and using modeling software to demonstrate their potential. These included equities, insurance products, derivatives products, and bonds. Routinely executed probabilistic based financial modelling for clients to illustrate the future value of their money accounting for changes to their risk profile, portfolio aggressiveness, and under scenarios of fundamental assumptions.

### **2011 Yacht Broker**

to *United Yacht Sales*  
**2012** *Pensacola, FL*  
I interfaced with buyers and sellers in the marketplace. Represented the Tartan/C&C line of new yachts as exclusive broker dealer, where asset valuation was well into the

six-figure range and discussed the features and benefits of these vessels with high net worth clients.

**2009 Assistant Ranch Manager**

*to Tanglehorn Ranch*

*2011 Nocona, TX*

Assisted with all manner of operations including operation of 4-wheel drive vehicles, trail maintenance, game surveys, cabin maintenance, equipment maintenance, etc.

**2006 Financial Advisor**

*to Edward Jones*

*2011 Denton, TX*

I sold a variety of investment products to help clients achieve their financial goals. In this role I sold annuities (variable and fixed), life insurance of all types, ILIT's, mutual funds, stocks, bonds, CMO's, ETF's, operated a fee-based platform, IRA's, SEP's, SIMPLE's, LIRP's, etc. I managed my office and supervised a team member while being responsible for all manner of day to day operations including marketing, budgeting, sales, and outreach.

**2000 Head Trader**

*to Technology Partners*

*2006 Chicago, IL*

During my six-year tenure as Head Trader and Manager of Firm Operations I traded the busiest stock (NT: NorTel Networks) on the floor of the Chicago Stock Exchange, trading up to 29 million shares a day. I trained employees to utilize systems and increase profitability while adhering to compliance procedures. I supervised correspondence with the Department of Market Regulation, an integral part of operations in today's highly regulated securities environment. Supervised team of 5+ traders and support staff. Reconciled P+L statements, monitored position risk in real time, used a variety of market-based indicators to assess our exposure and make real time decisions regarding position disposition and size. Some of this monitoring including monitoring the spot oil market, forward S&P contract, volatility index, and the short interest of various securities. When not engaged in real time monitoring activities, I used technical analysis (MACD, stochastic oscillators, open interest, etc.) to plan trading strategies based on likely future scenarios.

**PRESENTATIONS**

Quinn McColly, Philippe Tissot, and David Yoskowitz (2020). "U.S. Water Prices: A Machine Learning Approach." Poster presented at the American Meteorological Society meeting in Boston, Massachusetts.

Quinn McColly, David Yoskowitz, Paul Montagna, Philippe Tissot, and Robert Mace (2019). "Data fusion; combining biophysical and economic data to model water prices."

Paper presented at the Coastal and Estuarine Research Federation meeting in Mobile, Alabama.

Quinn McColly, David Yoskowitz (2019). "Development and Transfer of a Predictive Water Pricing Model from Australia to Texas." Paper presented at LSU's Center for Natural Resource Economics & Policy meeting in New Orleans, Louisiana.

Quinn McColly, David Yoskowitz, Richard Mclaughlin, and Jim Blackburn (2017). "Evaluating Buyer Interest in a Voluntary Ecosystem Services Exchange." Paper presented at the Coastal & Estuarine Research Federation meeting in Providence, Rhode Island.

Quinn McColly, David Yoskowitz, Richard Mclaughlin, and Jim Blackburn (2017). "Evaluating Buyers' Interest in an Ecosystem Services Exchange." Paper presented at the Texas Bays and Estuaries Meeting at the University of Texas Marine Science Institute.

### **LICENSES**

Series 7 (General Securities Representative Qualification Examination)  
Series 66 (Uniform Combined State Law Examination)  
Texas Insurance License (General Lines: Life, Accident, Health, HMO)  
(all previously held)

### **GRANTS AND FELLOWSHIPS**

Harte Fellowship  
Mathis Fellowship  
Crutchfield Fellowship

### **AWARDS AND HONORS**

Student Leadership Award, 2018, 2019  
Maggie Baines Scholarship 2018  
College of Science & Engineering Scholarship 2015-2017, 2019

### **PROFESSIONAL MEMBERSHIPS**

American Meteorological Society  
Coastal & Estuarine Research Federation