

**Contact Information**

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**Education**

2022                    **Ph.D. // Mathematics with a Concentration in Statistics**  
University of South Florida

2013                    **M.A. // Statistics**  
University of South Florida

2010                    **B.A. // Psychology (Cum Laude with Honors in the Major)**  
University of South Florida

**Professional Experience**

2018-                    **Founder and Statistical Consultant**  
Present                Analyt LLC

2024-                    **Lecturer**  
2025                    Department of Applied Mathematics (APPM)  
University of Colorado – Boulder

- Fall 2024:
  - Calculus 2 (APPM 1360)
  - Calculus 2 for Honors Students (APPM 1360-R)
- Spring 2025:
  - Calculus 2 (APPM 1360)
  - Psychological Statistics (PSYC 2111)

- 2024-2025      **Success Initiative Program (SIP) Creator/Liaison**  
 Department of Applied Mathematics (APPM)  
 University of Colorado – Boulder
- Used kindness, respect, data, and motivation to fuel student success across three separate calculus courses:
    - Pre-Calculus (APPM 1235)
    - Calculus 1 (APPM 1350)
    - Calculus 2 (APPM 1360)
  - Monitored grade data in Canvas, WebAssign, and Gradescope to determine student need levels
  - Held regular meetings and follow-ups with students
  - Constructed the program
  - Validated efforts via statistical analysis and reporting
  - Utilized Fall 2024 reporting to enhance Spring 2025 efforts
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- 2019-2021      **Instructor I**  
 Department of Information Systems and Decision Sciences (USF)
- Fall 2020:
    - Business & Economic Statistics II (QMB 3200)
    - Managerial Decision Analysis (QMB 6305)
  - Spring 2020:
    - Business & Economic Statistics II (QMB 3200)
    - Managerial Decision Analysis (QMB 6305)
  - Fall 2019:
    - Business & Economic Statistics II (QMB 3200)
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- 2017-2019      **Graduate Assistant/Statistical Consultant**  
 Doctorate of Business Administration (DBA) Program  
 Department of Information Systems and Decision Sciences (USF)
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- 2017      **Teaching Assistant**  
 Department of Mathematics and Statistics (USF)
- Spring 2017:
    - Introductory Statistics I (STA 2023)

2014-2016      **Instructor of Record**  
Department of Mathematics and Statistics (USF)

- Fall 2016:
  - Computational Statistics (STA 4102)
- Spring 2016:
  - Introduction to Probability (STA 4442)
- Fall 2015:
  - Introduction to Probability (STA 4442)
- Spring 2015:
  - Differential Equations (MAP 2302)
- Fall 2014:
  - Introductory Statistics I (STA 2023)

2013-2014      **Teaching Assistant**  
Department of Mathematics and Statistics (USF)

- Spring 2014:
  - Introductory Statistics I (STA 2023)
- Fall 2013:
  - Introductory Statistics I (STA 2023)

2010-2013      **Project Manager/Data Manager**  
Tampa VA Research and Education Foundation

## **Research Experience**

## **Publications In Progress (2)**

2025      K. L. Edwards, P. Laque, **R. M. Thurman**, S. Higgs (2025).  
Exposure to dynamic social norm messages increases plant-based food choices: An online and field-based experiment.  
Submitted to: *Food Quality and Preference*.

2025      **R. M. Thurman** (2025). On the Infinitude of Twin Primes.  
Recently, in September 2025, I realized an approach that drastically reduces the difficulty of proving the Twin Prime Conjecture. Currently, I am preparing the proof for publication.

2023                    **R. M. Thurman** (2023). On the Infinitude of Twin Primes.  
Reviewed/Rejected by *Journal of Algebra and Number Theory*.

## **Dissertations (2)**

2022                    **R. M. Thurman** (2022). A Functional Optimization Approach to  
Stochastic Process Sampling. *USF Tampa Graduate Theses and  
Dissertations*.

2018                    **R. M. Thurman** and G. S. Ladde (2018). On the Generalization  
of Hopfield Networks. Concepts Outlined/Project Unfinished.

## **Publications (7)**

2019                    M. B. Murphy-Braynen and **R. M. Thurman** (2019). The  
Relationship Between Export Diversification & Economic Growth:  
A Comparative Analysis with a Focus on Small Island States.  
*International Journal of Trade, Economics, and Finance*, 10(4),  
73-84.

2014                    P. Chapman, C. Elnitsky, B. Pitts, C. Figley, **R. M. Thurman**, & B.  
Unwin (2014). Mental Health, Help-Seeking, and Stigma and  
Barriers to Care Among 3- and 12-Month Post-Deployed and  
Never Deployed U.S. Army Combat Medics. *Military Medicine*,  
179(8), 55-62.

P. Chapman, C. Elnitsky, **R. M. Thurman**, B. Pitts, C. Figley, & B.  
Unwin (2014). Posttraumatic Stress, Depression, Stigma and  
Barriers to Care Among US Army Healthcare Providers.  
*Traumatology: An International Journal*, 20(1), 19-23.

2013                    **R. M. Thurman** and G. S. Ladde (2013). An Epidemiological  
Growth Model: Derivation, Properties, and Parameter Estimation.  
*Neural, Parallel, and Scientific Computations*, 21, 543-552.

P. Chapman, C. Elnitsky, **R. M. Thurman**, A. Spehar, & K.  
Siddharthan (2013). Exploring Combat-Related Loss and

Behavioral Health Among OEF/OIF Veterans With Chronic PTSD. *Traumatology: An International Journal*, 19(2), 154-157.

C. Elnitsky, P. Chapman, **R. M. Thurman**, B. Pitts, C. Figley, & B. Unwin (2013). Gender Differences in Combat Medic Mental Health Services, Barriers, and Stigma. *Military Medicine*, 178(7), 775-784.

2012 P. Chapman, D. Cabrera, C. Varela-Mayer, M. Baker, C. Elnitsky, C. Figley, **R. M. Thurman**, C. Lin, & P. Mayer (2012). Training, deployment preparation, and combat experiences of deployed health care personnel: Key Findings from U.S. Army combat medics deployed with line units. *Military Medicine*, 177(3), 270-277.

### **Conferences/Workshops (8)**

- 2015 **R. M. Thurman** and G. S. Ladde (2015, May). On the Generalization of Artificial Neural Networks with Dynamic Excitation. Seventh International Conference on Dynamic Systems and Applications & Fifth International Conference on Neural, Parallel, and Scientific Computations; Atlanta, GA. Paper Presentation.
- R. M. Thurman** and G. S. Ladde (2015, February). Logistic Comparison Growth Model: Derivation and Statistical Analysis. American Statistical Association Florida Chapter Meeting, Tampa, FL. Paper Presentation.
- R. M. Thurman** and G. S. Ladde (2015, January). Epidemiological Modeling and Stochastic Neural Networks. Joint Mathematics Meeting, San Antonio, TX. Paper Presentation.
- 2014 **R. M. Thurman** and G. S. Ladde (2014, January). Logistic Comparison Growth Model: Parametric Domain Decomposition and Statistical Analysis. Joint Mathematics Meeting, Baltimore, MD. Paper Presentation.

- 2012 **R. M. Thurman** (2012, March). An Introduction to R: Beyond the Basics. University of South Florida Statistics Department Colloquium, Tampa, FL. Workshop Presentation.
- R. M. Thurman** (2012, February). An Introduction to R: The Basics. University of South Florida Statistics Department Colloquium, Tampa, FL. Workshop Presentation.
- 2011 B. Pitts, **R. M. Thurman**, C. Varela, P. Chapman, D. Cabrera, & C. Figley (2011, November). The Soldier Medic Mettle Study: Perceptions of Training and Combat Experiences. Association of Military Surgeons of the United States, San Antonio, TX. Poster Presentation.
- C. Varela, **R. M. Thurman**, B. Pitts, & P. Chapman (2011, November). Stigma and Barriers to Care Among Army Combat Medics. Association of Military Surgeons of the United States, San Antonio, TX. Poster Presentation.

### **Consulting Reports/Projects (21)**

- 2024 How Do Normative Messages Influence Plant-Based Sales Over Time?
- 2023 What are the Long-Term Effects of Financial Literacy Courses?
- What are the Naturally-Occurring Clusters in Metaverse Advertising Campaigns?
- 2022 How Does Collectivism Moderate the Relationship Between Normative Messages and Plant-Based Meal Choices?
- What are the Individual-Level Impacts of Living in Subsidized Housing?
- How Does a Clinician's Adverse Childhood Experiences, Current Life Stressors, and Workplace Influence Their Job Performance?

- 2021                      What is the Impact of Business Planning on Startup Duration and Startup Outcomes?
- 2019                      What are the Factors Influencing Entrepreneurial Outcomes Among Participants of The NSF I-Corps Program?
- How Does One Predict Incoming (National) Economic Activity?
- How do Digital Badges Impact Employer Outcomes?
- What is the Impact of Perceived Human Resource Management Practices on Employee Engagement and Job Satisfaction Among Millennial and Non-Millennial Employees?
- 2018                      Should the Organization Take the Union's Offered Concession?
- How Does Stakeholder Theory Apply to Resident-Government Interactions?
- What are the Personality and Performance Characteristics of Insurance Agent-Owners and Employees?
- What is the Role of Justice Perceptions in Performance Appraisal Satisfaction among Knowledge Workers?
- How do Ambient Lighting Conditions Impact Alcoholic Beverage Sales in Hotel Bars?
- How Does One Create a Concordance Algorithm for Ordered Choice Data?
- What are the Essential Skills for Leadership Development in a Multicultural Organization?
- How Does One Influence Gender-Specific Perceptions of the Factors Affecting a Woman's Career Advancement Opportunities in the US?

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| 2017 | What is the Impact of Standardized Testing on High-Achieving Students' Post-Secondary Acceptance Outcomes? |
| 2014 | How Does One Investigate the Physical and Analytical Chemistry of Iron in Aqueous Solutions?               |

### **Assistantships (3)**

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|---------------|---|
| 2013-<br>2017 | <b>Graduate Research Assistant (Summer Position)</b><br>US Army Research Office, Mathematical Sciences Division<br>Research Triangle Park, NC |
| 2007-<br>2009 | <b>Undergraduate Research Assistant</b><br>Dr. Jamie Goldenberg's Social Psychology Lab<br>Department of Psychology (USF)                     |
| 2007-<br>2008 | <b>Undergraduate Research Assistant</b><br>Dr. Marc Karver's Alliance Lab for Suicide Prevention<br>Department of Psychology (USF)            |

### **Research Interests**

Probability, Stochastic Processes, Distributions, Number Theory, Primes (Twin Prime Conjecture, Legendre's Conjecture, Riemann Hypothesis), Mathematical Games, Generalized Functions, Turbulence, Fractals, Applied/Interdisciplinary Problems, Neural Networks, Artificial Intelligence

### **Technological Skills (in Descending Order of Familiarity)**

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|--------------|---|
| Statistical: | R (Base, R-Studio, Radiant), Excel/LibreOffice Calc, SPSS, SAS, STATISTIX, STATA, Tableau |
| Educational: | Canvas, Blackboard, Zoom, Teams   |
| Typesetting: | Word/LibreOffice Writer, LaTeX, EndNote   |
| Survey:      | Qualtrics, Survey Monkey, Question Pro, HP TeleForm                                       |
| OS:          | macOS, Windows, Ubuntu Linux  |



## **Honors/Achievements**

- 2007-2022                    **High-Achievement in All University Courses**  
University of South Florida  
(A or A+ in All Courses Excepting a Single A- in 2013)
- 2016-2017                    **NSF I-Corps Entrepreneurial Program Fellow**  
University of South Florida  
(Entrepreneurial Lead in 2016, Technical Lead in 2017)
- 2015                        **Brumback Award for Best Paper Presentation**  
American Statistical Association Florida Chapter Meeting (USF)  
(Monetary Prize Awarded With Recognition)
- 2009                        **Honorable Mention**  
Undergraduate Research Symposium (USF)  
(Non-Monetary Prize Awarded With Recognition)

## **Memberships**

- 2016-2017                    **Faculty Advisor**  
Improv@USF
- 2014-2017                    **President**  
Statistics Club at USF
- 2013                        **Vice President**  
Statistics Club at USF

## **Hobbies**

Musical Composition and Performance (Drums, Guitar, Vocals, Virtual/Electronic)  
Musical Recording and Mastering (GarageBand, R24, H4nPro)  
Outdoors (BMX, Road Cycling, Mountain Biking, Hiking, Parkour)  
Writing (Lyrics, Sketches, Prose, Philosophy)  
Improvisation (Short-Form, Long-Form)  
Travel (Survivalist, Economy, Leisure, Business)  
Self-Care (Cognitive Behavioral Therapy, Self-Reflection, Systematic Thinking)