

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

2024-
2025 **Lecturer**
 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
	<ul style="list-style-type: none">Used kindness, respect, data, and motivation to fuel student success across three separate calculus courses:<ul style="list-style-type: none">Pre-Calculus (APPM 1235)Calculus 1 (APPM 1350)Calculus 2 (APPM 1360)Monitored grade data in Canvas, WebAssign, and Gradescope to determine student need levelsHeld regular meetings and follow-ups with studentsConstructed the programValidated efforts via statistical analysis and reportingUtilized Fall 2024 reporting to enhance Spring 2025 efforts
2019- 2021	Instructor I Department of Information Systems and Decision Sciences (USF) <ul style="list-style-type: none">Fall 2020:<ul style="list-style-type: none">Business & Economic Statistics II (QMB 3200)Managerial Decision Analysis (QMB 6305)Spring 2020:<ul style="list-style-type: none">Business & Economic Statistics II (QMB 3200)Managerial Decision Analysis (QMB 6305)Fall 2019:<ul style="list-style-type: none">Business & Economic Statistics II (QMB 3200)
2017- 2019	Graduate Assistant/Statistical Consultant Doctorate of Business Administration (DBA) Program Department of Information Systems and Decision Sciences (USF)
2017	Teaching Assistant Department of Mathematics and Statistics (USF) <ul style="list-style-type: none">Spring 2017:<ul style="list-style-type: none">Introductory Statistics I (STA 2023)

2014- 2016	Instructor of Record Department of Mathematics and Statistics (USF) <ul style="list-style-type: none"> • Fall 2016: <ul style="list-style-type: none"> ◦ Computational Statistics (STA 4102) • Spring 2016: <ul style="list-style-type: none"> ◦ Introduction to Probability (STA 4442) • Fall 2015: <ul style="list-style-type: none"> ◦ Introduction to Probability (STA 4442) • Spring 2015: <ul style="list-style-type: none"> ◦ Differential Equations (MAP 2302) • Fall 2014: <ul style="list-style-type: none"> ◦ Introductory Statistics I (STA 2023)
2013- 2014	Teaching Assistant Department of Mathematics and Statistics (USF) <ul style="list-style-type: none"> • Spring 2014: <ul style="list-style-type: none"> ◦ Introductory Statistics I (STA 2023) • Fall 2013: <ul style="list-style-type: none"> ◦ Introductory Statistics I (STA 2023)
2010- 2013	Project Manager/Data Manager Tampa VA Research and Education Foundation
<u>Research Experience</u>	
<u>Publications In Progress (2)</u>	
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: <i>Food Quality and Preference</i> .
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?

- 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)

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

- 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- **High-Achievement in All University Courses**
2022 University of South Florida
(A or A+ in All Courses Excepting a Single A- in 2013)
- 2016- **NSF I-Corps Entrepreneurial Program Fellow**
2017 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- **Faculty Advisor**
2017 Improv@USF
- 2014- **President**
2017 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)