###### [JakeRodenForeman@gmail.com](mailto:JakeRodenForeman@gmail.com) | (214) 354-2285 | Fort Worth, Texas

###### Open Researcher and Contributor ID: [orcid.org/0000-0002-8338-397X](https://orcid.org/0000-0002-8338-397X)

###### Driven, innovative, and detail-oriented researcher-statistician with 5 years of experience working with clinicians and administrators in the highly regulated clinical research setting. Seeking to leverage my programming, statistical, and domain knowledge to improve patient outcomes and draw new insights while maintaining regulatory compliance.

# Education

| **Ohio University in Athens, Ohio** | |
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| **PhD Program in Experimental Psychology** | **August 2018 – August 2019** |

4.00 GPA; 30 credit hours completed  
Relevant courses: • Data management • Advanced statistics for the behavioral sciences  
• Linear regression analysis • Advanced regression analysis • Advanced research methods

| **Hampden-Sydney College in Hampden-Sydney, Virginia** | |
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| **Bachelor of Arts in Psychology** | **August 2011 – May 2015** |

Graduated *magna cum laude*  
3.56 GPA; 3.81 Major GPA  
Dean’s List: Fall 2012, Spring 2013, Fall 2014, & Spring 2015  
Patrick Henry Honors Scholar  
Thesis: “Brand or generic: Priming consumer choices in their favor”

# Professional Experience

| **Office of Institutional Research, Tarrant County College District in Fort Worth, Texas** | |
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| **Research Analyst** | **March 2020 – present** |

##### Review proposed studies for feasibility, scientific merit, ethical considerations, and regulatory compliance as an alternate member of the institutional review board

##### Produce descriptive statistics, visualizations, longitudinal/predictive analyses, and other reports on student outcomes, job market conditions, industry trends, and demographic/workforce information

##### Work with large, complex datasets, including importing/exporting and merging from various sources, cleaning data files and maintaining historical records

| **University of Texas Health Science Center in Tyler, Texas** | |
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| **Independent Statistical Contractor** | **March 2020 – present** |

##### Clean and manage large-scale databases

##### Review and update pre-existing syntax to correct errors and make calculations up to 30X faster

##### Develop statistical analyses, tables, and visualizations in partnership with investigators

##### Write methods and results sections of manuscripts and participate in peer-review editing

| **Baylor Scott & White Research Institute, Division of Trauma, Critical Care, & Acute Care Surgery Research at Baylor University Medical Center in Dallas, Texas** | |
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| **Research Enrollment Analyst** | **July 2016 – January 2020** |
| **Clinical Research Assistant** | **August 2015 – July 2016** |

##### Independently coordinated several research projects from conception to publication, including studies involving more than 80,000 patients from dozens of hospitals

##### Performed data collection, cleaning, analysis, and reporting for numerous studies, which resulted in 12 peer-reviewed publications and 31 presentations since 2016

##### Provided quality assurance monitoring and registry management for the Division of Trauma, which helped to reduce inappropriate triage by >30%

##### Guided discussions with clinicians about study design and methodology to identify and reformulate otherwise infeasible projects

##### Completed IRB study applications and ensured compliance with applicable regulations

##### Obtained informed consent from patients enrolling in prospective studies

##### Assisted in introducing new staff to standard operating policies and procedures

| **Department of Psychology at Ohio University in Athens, Ohio** | |
| --- | --- |
| **Graduate Research and Teaching Assistant** | **August 2018 – August 2019** |

##### Performed multiple literature searches and reviews to inform the theoretical and methodological development of new studies

##### Independently managed the cleaning, analyzing, and reporting of study data

##### Implemented procedures to reduce time needed to perform some analyses by >70%

##### Selected by department chair to lead multiple undergraduate statistics lectures in my first year, which typically is not done until year three

##### Graded and provided detailed feedback on undergraduate assignments

##### Conducted pre-exam and as-needed statistics help sessions for undergraduate students

# Professional Service

| Student Caucus Grant Reviewer, Association for Psychological Science | 2018 |
| --- | --- |
| Member, Presidential Task Force on Empirically Supported Treatment Dissemination, Division 12 of the American Psychological Association | 2017 – present |
| Member, Terrorism Press Statement Writing Subcommittee, Anxiety and Depression Association of America | 2016 |
| Pro Tempore Chapter Secretary, Psi Chi | 2015 |

Ad hoc reviewer for: *Journal of the American Medical Association*, *Journal of Consulting and Clinical Psychology*, *Journal of Anxiety Disorders*, *Journal of Trauma and Acute Care Surgery*

# Professional Affiliations and Memberships

| Member, Association for Psychological Science | 2017 – present |
| --- | --- |
| Member, American Psychological Association | 2017 – present |
| Lifetime member, Psi Chi | 2014 – present |

# Honors and Awards

| Best Paper Award: American College of Surgeons, North Texas Chapter | 2017 – present |
| --- | --- |
| Performance Improvement Abstract Award: American College of Surgeons, Trauma Quality Improvement Committee | November 2016 |
| Service Excellence Award: Baylor University Medical Center | May 2016 |
| Psychology Department Award for Research: Hampden-Sydney College | May 2015 |

# Technical Skills

| Statistics and data science | • Sample size/power calculations • Bayesian methods • Generalized linear regression • Multi-level/mixed models • Non-parametric analyses • Decision trees • Data visualization |
| --- | --- |
| Statistical software | • Highly proficient with R, JASP, SPSS, Excel, and  Comprehensive Meta-Analysis • Familiar with SQL/PostgreSQL, Python, SAS, and Visual Basic |
| Survey software | • Highly proficient with SurveyMonkey • Familiar with RedCap and Qualtrics |
| Electronic health records | • Proficient with AllScripts and EPIC |

**Published software:** Visual Basic code: Database clean up instructions and Excel VBA code. Contains instructions on how to use a Visual Basic code that cleans and reorganizes Excel databases from a multi-line format to a single-line format. [doi.org/10.13140/RG.2.1.3847.8962](https://doi.org/10.13140/RG.2.1.3847.8962)

# Invited Lectures

1. *Updates in defining major trauma, overtriage, and undertriage*. May 2020. 22nd Annual Jacobi NYC Health and Hospitals Warren Wetzel, MD Trauma/Emergency Medicine Symposium. Canceled due to SARS-CoV-2 Pandemic.
2. *A crash course in statistics and applications to the results section*. Delivered on October 10, 2017 to the Trauma & Critical Care Conference of the A. Webb Roberts Center for Continuing Medical Education at Baylor Scott & White Health.

# Manuscripts Under Review or In Preparation

1. Avoiding Cribari Gridlock 3: Comparing the reliability and validity of triage rates from the Cribari Matrix Method versus the Standardized Triage Assessment Tool. Planned submission to *Academic Emergency Medicine*.
2. Elders Playing Like Children: Injuries from high-risk recreation among older adults in the United States, 2010 to 2016.

# Peer-Reviewed Journal Publications

1. Roden-Foreman JW, Rapier NR, Foreman ML, et al. Avoiding Cribari gridlock 2: The Standardized Triage Assessment Tool outperforms the Cribari Matrix Method in 38 adult and pediatric trauma centers. *Inj*;NA:-. [doi:10.1016/j.injury.2020.09.027](https://doi.org/10.1016/j.injury.2020.09.027)
2. Shelley JK, Roden-Foreman JW, Vier D, et al. Relation of length of stay and other hospital variables to post-traumatic stress disorder and depression after orthopedic trauma. *Baylor University Med Center Proc*;NA:-. [doi:10.1080/08998280.2020.1801113](https://doi.org/10.1080/08998280.2020.1801113)
3. Roden-Foreman JW, Rapier NR, Foreman ML, et al. Rethinking the definition of major trauma: The Need For Trauma Intervention outperforms Injury Severity Score and Revised Trauma Score in 38 adult and pediatric trauma centers. *J Trauma Acute Care Surg*;87(3):658-665. [doi:10.1097/TA.0000000000002402](https://doi.org/10.1097/TA.0000000000002402)
4. Carey SA, Roden-Foreman JW, Felius J, et al. Secondary traumatic stress in multi-disciplinary teams caring for heart and lung transplant patients. *Traumatology*;25(4):275-281. [doi:10.1037/trm0000188](https://doi.org/10.1037/trm0000188)
5. Teel J, Reynolds M, Bennett M, et al. Secondary traumatic stress among physiatrists treating patients with traumatic injury. *Baylor University Med Center Proc*;32(2):209-214. [doi:10.1080/08998280.2018.1559694](https://doi.org/10.1080/08998280.2018.1559694)
6. Roden-Foreman JW, Foreman ML, Funk GA, Powers M. Driver see, driver crash: Associations between televised stock car races’ audience size and the incidence of speed-related motor vehicle collisions in the United States. *Baylor University Med Center Proc*;32(1):37-42. [doi:10.1080/08998280.2018.1512275](https://doi.org/10.1080/08998280.2018.1512275)
7. Asmundson GJG, Thorisdottir AS, Roden-Foreman J, et al. A meta-analytic review of cognitive processing therapy for posttraumatic stress disorder in adults. *Cognitive Behaviour Ther*;48(1):1-14. [doi:10.1080/16506073.2018.1522371](https://doi.org/10.1080/16506073.2018.1522371)
8. Culp BL, Roden-Foreman J, Thomas EV, et al. Better with age? A comparison of geriatric and non-geriatric trauma patients’ psychological outcomes six months post injury. *Cognitive Behaviour Ther*;48(5):406-418. [doi:10.1080/16506073.2018.1533578](https://doi.org/10.1080/16506073.2018.1533578)
9. Roden-Foreman JW, Rapier NR, Yelverton L, Foreman ML. Avoiding Cribari gridlock: The Standardized Triage Assessment Tool improves the accuracy of the Cribari Matrix Method in identifying potential over- and undertriage. *J Trauma Acute Care Surg*;84(5):718-726. [doi:10.1097/TA.0000000000001814](https://doi.org/10.1097/TA.0000000000001814)
10. Agtarap S, Shelley J, Bennett M, et al. The role of depression and social support on readmission rates within one year of traumatic injury. *Health Psychol*;37(9):799-807. [doi:10.1037/hea0000590](https://doi.org/10.1037/hea0000590)
11. Roden-Foreman JW, Bennett MM, Rainey EE, Garrett JS, Powers MB, Warren AM. Secondary traumatic stress in emergency medicine clinicians. *Cognitive Behaviour Ther*;46(6):522-532. [doi:10.1080/16506073.2017.1315612](https://doi.org/10.1080/16506073.2017.1315612)
12. Roden-Foreman JW, Rapier NR, Yelverton L, Foreman ML. Asking a better question: Development and evaluation of the Need For Trauma Intervention (NFTI) metric as a novel indicator of major trauma. *J Trauma Nurs*;24(3):150-157. [doi:10.1097/JTN.0000000000000283](https://doi.org/10.1097/JTN.0000000000000283)
13. Roden-Foreman K, Solis J, Jones A, et al. Prospective evaluation of PTSD and depression in orthopedic injury patients with and without concomitant traumatic brain injury. *J Orthop Trauma*;31(9):e275-e280. [doi:10.1097/BOT.0000000000000884](https://doi.org/10.1097/BOT.0000000000000884)
14. McLaughlin C, Kearns NT, Bennett MM, et al. Alcohol and drug toxicology screen at time of hospitalization does not predict PTSD or depression after traumatic injury. *Am J Surg*;214(3):390-396. [doi:10.1016/j.amjsurg.2017.06.026](https://doi.org/10.1016/j.amjsurg.2017.06.026)
15. Roden-Foreman JW, Warren AM, Reynolds M, Foreman ML. Recurrent hospitalization for self-injuries and suicide attempts: Case study of a super-utilizer. *Baylor University Med Center Proc*;28(3):331-333. [doi:10.1080/08998280.2015.11929264](https://doi.org/10.1080/08998280.2015.11929264)

# Peer-Reviewed Oral Presentations

1. Shelley J, Roden-Foreman JW, Austin E, Ramos A, Couch C. A meta-analytic comparison of continuous intercostal nerve block and thoracic epidural for rib fractures. Oral presentation at: Annual Meeting of the North Texas Chapter of the American College of Surgeons; February 21, 2020; Dallas, Texas.
2. Pappas N, Thomas E, Adams M, Roden-Foreman JW, Rapier N. IR better now: Streamlining emergent interventional radiology procedures with revised guidelines. Oral presentation at: Trauma Quality Improvement Program 2019 Annual Meeting and Training; November 16, 2019; Dallas, Texas.
3. Roden-Foreman JW, Rapier NR, Foreman ML, et al. The Need For Trauma Intervention (NFTI) defines major trauma more accurately than Injury Severity Score (ISS) and Revised Trauma Score (RTS): Data from a collaboration of 35 adult and pediatric trauma centers. Oral presentation at: Annual Meeting of the American Association for the Surgery of Trauma; September 26, 2018; San Diego, California.
4. Roden-Foreman JW, Rapier NR, Foreman ML, et al. Avoiding Cribari gridlock 2: The Standardized Triage Assessment Tool (STAT) outperforms the Cribari Matrix Method (CMM). A replication study in 35 adult and pediatric trauma centers. Oral presentation at: Annual Meeting of the American Association for the Surgery of Trauma; September 26, 2018; San Diego, California.
5. Roden-Foreman J, Rapier N, Yelverton L, Foreman M. New tools to reduce and standardize the triage review process. Oral presentation at: Trauma Center Association of America’s 21st Annual Trauma Conference; May 02, 2018; New Orleans, Louisiana.
6. Roden-Foreman JW, Rainey EE, Bennett M, Garrett JS, Warren AM. Time to analgesia is not associated with trauma patients’ mental health or quality of life at baseline or six months. Oral presentation at: Annual Meeting of the North Texas Chapter of the American College of Surgeons; February 17, 2018; Dallas, Texas.
7. Strage K, Prajapati P, Roden-Foreman J, et al. Close enough? A retrospective cohort analysis on the safety and efficacy of discharging patients with high but down-trending pancreatic enzymes after admission for acute biliary pancreatitis. Oral presentation at: Annual Meeting of the North Texas Chapter of the American College of Surgeons; February 16, 2018; Dallas, Texas.
8. Roth J, Vaughan N, Alaidroos I, et al. Enoxaparin prophylaxis dose adjusted by antiXa trough levels in critically injured trauma patients. Oral presentation at: Annual Meeting of the Society of Critical Care Medicine; February 25, 2018; San Antonio, Texas.
9. Roden-Foreman JW, Rapier NR, Yelverton L, Foreman ML. Avoiding Cribari gridlock: The Standardized Triage Assessment Tool (STAT) provides standardized definitions of over- and undertriage that are more accurate than the Cribari Matrix Method. Oral presentation at: Annual Meeting of the American Association for the Surgery of Trauma; September 13, 2017; Baltimore, Maryland.
10. Edmundson P, Roden-Foreman JW, Rainey EE, et al. Intrusion, ejection, and death in the compartment: Mechanism-based trauma activation criteria fail to identify seriously injured patients. Oral presentation at: Scientific Forum of the American College of Surgeons’ Clinical Congress; October 22, 2017; San Diego, California.
11. Vaughan N, Roden-Foreman JW, Dome M, et al. What risk factors within the first 24 hours of admission are associated with mortality after traumatic injury?. Oral presentation at: Annual Meeting of the North and South Texas Chapters of the American College of Surgeons; February 24, 2017; San Diego, California.
12. Edmundson P, Roden-Foreman JW, Ewing M, et al. Intrusion, ejection, and death in the compartment: Mechanism-based activation criteria fail to identify seriously injured patients. Oral presentation at: Annual Meeting of the North and South Texas Chapters of the American College of Surgeons; February 24, 2017; San Diego, California.
13. Roden-Foreman JW, Rapier NR, Foreman ML. Asking (and answering) a better question: Development and evaluation of the Need For Trauma Intervention (NFTI) metric. Oral presentation at: Annual Scientific Meeting of the American College of Surgeons’ Trauma Quality Improvement Program; November 06, 2016; Orlando, Florida.
14. Kleinschmidt TK, Funk GA, Ewing M, et al. Extracorporeal membrane oxygenation-assisted cardiopulmonary resuscitation: A single-center ECPR case review with matched cohort series of in-hospital cardiac arrest. Oral presentation at: Semi-annual Meeting of the Texas Surgical Society; October 01, 2016; Dallas, Texas.
15. Roden-Foreman JW, Rapier NR, Foreman ML. Asking (and answering) a better question: Development and evaluation of the Need For Trauma Intervention (NFTI) metric. Oral presentation at: Semi-annual Meeting of the Texas Surgical Society; October 01, 2016; Dallas, Texas.
16. Arrendondo SD, Gilder RE, Roden-Foreman JW, Foreman ML, Petrey LB. Death, taxes, and readmissions: Analysis of regional hospital encounters following traumatic injury. Oral presentation at: Baylor Scott and White, Department of Surgery Research Day; May 12, 2016; Temple, Texas.
17. Balogh R, Edmundson P, Shirvani A, et al. Sarcopenia as a marker of frailty: Psoas muscle size predicts functional outcome in mild to moderately injured trauma patients. Oral presentation at: Annual Meeting of the American Association for the Surgery of Trauma; September 09, 2015; Las Vegas, Nevada.
18. Balogh R, Edmundson P, Shirvani A, Shah A, Roden-Foreman J, Foreman ML. Sarcopenia and osteopenia as a marker of frailty and predictor of morbidity and mortality in the trauma population. Oral presentation at: Baylor Scott & White, Department of Surgery Research Day; May 01, 2015; Temple, Texas.

# Peer-Reviewed Poster Presentations

1. Ramos A, Pappas N, Shelley JK, Roden-Foreman JW. Third time no charm? Examining the utility of tertiary surveys. Poster presentation at: Trauma Quality Improvement Program 2019 Annual Meeting and Training; November 16, 2019; Dallas, Texas.
2. Roden-Foreman JW, Shelley JK, Foreman ML, Petrey LB. A hurdle to understanding: Current practices fail to capture intricacies of resource utilization. Poster presentation at: Trauma Quality Improvement Program 2019 Annual Meeting and Training; November 16, 2019; Dallas, Texas.
3. Roden-Foreman JW, Shelley JK, Foreman ML, Petrey LB. Calling it: Factors present within one hour of arrival that predict mortality within the next five hours. Poster presentation at: Annual Meeting of the American Association for the Surgery of Trauma; September 18, 2019; Dallas, Texas.
4. Fitzgerald HE, Gorlin E, Stein A, et al. A novel topographical map approach for displaying PTSD intervention component efficacy. Poster presentation at: Annual Conference of the Association for Behavioral and Cognitive Therapies; November 15, 2018; Washington, DC.
5. Roden-Foreman J, Dome M, Shelley J, Troxel W, Marshall G, Powers M. Predicting sleep disturbances after trauma through racial and socioeconomic disparities. Poster presentation at: Annual Meeting of the North Texas Chapter of the American College of Surgeons; February 17, 2018; Dallas, Texas.
6. Roden-Foreman J, Dome M, Shelley J, Troxel W, Marshall G, Powers M. Predicting sleep disturbances after trauma through racial and socioeconomic disparities. Poster presentation at: Annual Meeting of the International Society for Traumatic Stress Studies; November 09, 2017; Chicago, Illinois.
7. Roden-Foreman JW, Agtarap SD. Well, that’s not normal: A simulation study on the effects of testing Injury Severity Score with parametric statistics. Poster presentation at: Annual Meeting of the American Association for the Surgery of Trauma; September 13, 2017; Baltimore, Maryland.
8. Arredondo S, Dome M, Gilder R, Roden-Foreman J, Foreman ML, Petrey L. Identifying trauma super-utilizers’ readmissions with 11-year data model. Poster presentation at: Scientific Forum of the American College of Surgeons’ Clinical Congress; October 22, 2017; San Diego, California.
9. Roden-Foreman JW, Edmundson P, Foreman ML. We don’t need full activation: Gunshot wounds isolated to the extremities do not require full trauma team activations as mandated by the American College of Surgeons. Poster presentation at: Scientific Forum of the American College of Surgeons’ Clinical Congress; October 22, 2017; San Diego, California.
10. Roden-Foreman JW, Powers MB. Driver see, driver crash: Social contagion, NASCAR ratings, and the monthly incidence of car crashes. Poster presentation at: Annual Convention of the American Psychological Association; August 03, 2017; Washington, DC.
11. Agtarap S, Roden-Foreman JW, Natesan P, Foreman ML. Assessing violated assumptions on two-sample independent testing using simulation: Robustness for non-normal medical variables. Poster presentation at: Annual Convention of the Association for Psychological Science; May 25, 2017; Boston, Massachusetts.
12. Carey SA, Roden-Foreman JW, Bennett MM, Felius J, Hall SA, Warren AM. Does caring for heart and lung transplant patients lead to psychological stress in multi-disciplinary care teams?. Poster presentation at: Annual Meeting of the International Society for Heart & Lung Transplantation; April 05, 2017; San Diego, California. [doi:10.1016/j.healun.2017.01.1010](https://doi.org/10.1016/j.healun.2017.01.1010)
13. Roden-Foreman JW, Vaughan N, Powers MB, Foreman ML, Funk GA. Driver see, driver crash: NASCAR viewership ratings are associated with national increases in motor vehicle collisions with and without injury. Poster presentation at: Annual Meeting of the North and South Texas Chapters of the American College of Surgeons; February 24, 2017; Austin, Texas.
14. Edmundson P, Roden-Foreman JW, Foreman ML. We don’t need full activation: Gunshot wounds isolated to the extremities do not require full trauma team activations as mandated by the American College of Surgeons. Poster presentation at: Annual Meeting of the North and South Texas Chapters of the American College of Surgeons; February 24, 2017; Austin, Texas.
15. Warren AM, Roden-Foreman J, Adkins C, Bennett M, Agtarap S, Foreman ML. A comparison of geriatric and non-geriatric patients’ psychosocial outcomes following traumatic injury. Poster presentation at: Annual Meeting of the North Texas Chapter of the American College of Surgeons; February 20, 2016; Dallas, Texas.