

Curriculum Vitae of Dr. L. Scott Baggett

Education

2000, Rice University, Ph.D. in Statistics
2000, Rice University, M.A. in Statistics
1994, University of Arkansas, M.S. in Statistics
1985, Texas A&M University, M.S. in Biological Oceanography
1980, University of Oklahoma, B.S. in Zoology

Professional Experience

Owner / Principal Statistician, L. Scott Baggett & Associates, LLC, Fort Collins, CO, 2026 to present.

Provides statistical expert witness services in insurance and wage-and-hour litigation, developing damages models and sampling methodologies, conducting analyses in SAS and R, and authoring expert reports and deposition and trial testimony.

Supervisory Statistician, United States Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins, CO, 2010 to 2025.

Supervised the Research Station's statistical unit, consulting to over one hundred research-grade scientists on manuscripts and study designs, and managed the Forest Service's national data archiving project, coordinating statistical consultation nationally with other federal natural-resource agencies.

Director, Rice University Statistical Consulting Lab (SCL); Lecturer, Rice University Department of Statistics; Senior Statistician, Rice University Jesse H. Jones Graduate School of Business (JGSB), Houston, TX, 1999 to 2010.

Provided statistical consultation and programming for JGSB research faculty, contributing to over one hundred publications, and trained four Research Analysts. Consulted across the Rice research community (Bioengineering, Economics, Ecology and Evolutionary Biology) through the SCL, participated in research grants, and taught graduate and undergraduate Statistics courses.

Senior Statistician, Reliant Resources, Inc., Weather Derivatives Group, Houston, TX, 2001 to 2002.

Developed and implemented statistical methods to evaluate and improve short-term atmospheric temperature forecast ensembles, including thermometer error-correction algorithms for Automated Surface Observing System (ASOS) data. Other projects included stochastic spatiotemporal climatological modeling and residential natural gas demand modeling, in collaboration with meteorologists, climatologists, and energy specialists.

University Courses Taught

Statistics 413, Statistical Computing
Statistics 421/621, Time Series Analysis
Statistics 450/540, Practicum in Statistical Modeling
Statistics 606, SAS Statistical Programming

Publications (Prior 10 Years)

Butler JL, Wacker SD, Ott JP, Baggett LS, Battaglia MA (2025) Exotic plant responses to large-scale commercial logging in ponderosa pine forests of the Black Hills National Forest, South Dakota, USA, *Forest Ecology and Management*, 585, 122652, doi:10.1016/j.foreco.2025.122652.

Fairchild MP, Swigle BD, Adams A, Murray J, Baggett LS, Carroll C (2025) Off-Highway Vehicle Use Degrades a Mountain Stream: A Case Study Evaluating Recreation Impacts, Restoration Efficacy, and Assessing Vulnerability of Headwater Streams in the Central Rocky Mountains, *River Research and Applications*, 41(5), 1044-1057, doi:10.1002/rra.4433.

Armatas CA, Mudford TI, Thomsen JM (2025) Salmon Wild and Scenic River: Visitor survey data collected between North Fork and Corn Creek in 2021 and 2022, Fort Collins, CO: Forest Service Research Data Archive, doi:10.2737/RDS-2025-0044.

Hansen EM, Bentz BJ, Baggett LS (2024) Evidence for an adult summer diapause in mountain pine beetle (Coleoptera: Curculionidae) that varies geographically and among haplogroups, *Environmental Entomology*, doi:10.1093/ee/nvae068.

Carlson AR, Hawbaker TJ, Bair LS, Hoffman CM, Meldrum JR, Baggett LS, Steblein PF (2024) Evaluating a simulation-based wildfire burn probability map for the conterminous US, *International Journal of Wildland Fire*, 33, doi:10.1071/wf23196.

Chambers JC, Smith B, Baggett LS (2022) Five-Year Effects of Introduced Mountain Goats and Recreation on Plant Communities and Species of Conservation Concern in an Alpine Sky Island, *The American Midland Naturalist*, 188(2), 177-198.

Li K, Tian H, Moser WK, Overby ST, Baggett LS, Ni R, Li C, Shen W (2022) Black locust coppice stands homogenize soil diazotrophic communities by reducing soil net nitrogen mineralization, *Forest Ecosystems*, 9: 100025.

Dumroese RK, Terzaghi M, Acevedo M, Lasserre B, Scippa GS, Baggett LS, Chiatante D, Montagnoli A (2022) Root system architecture of *Pinus ponderosa* three decades after copper root pruning in a container nursery, *New Forests*, 53, 983-1001.

Berezovska D, Oszako T, Malewski T, Stocki M, Marozau A, Stocka N, Moser WK, Baggett LS, Belbahri L, Nowakowska JA (2021) Effect of defoliation on the defense reactions of silver birch (*Betula pendula*) infected with *Phytophthora plurivora*, *Forests*, 12: 910.

Owen SM, Sieg CH, Fule PZ, Gehring CA, Baggett LS, Iniguez JM, Fornwalt PJ, Battaglia MA (2020) Persistent effects of fire severity on ponderosa pine regeneration niches and seedling growth, *Forest Ecology and Management*, 477: 118502.

Hao WM, Reeves MC, Baggett LS, Balkanski Y, Ciais P, Nordgren BL, Petkov A, Corley RE, Mouillot F, Urbanski SP, Yue C (2021) Wetter environment and increased grazing reduced the area burned in northern Eurasia from 2002 to 2016, *Biogeosciences*, 18, 2559-2572, doi:10.5194/bg-18-2559-2021.

Reeves MC, Hanberry B, Bruggink JL, Krebs MA, Campbell SB (2020) A novel approach for estimating nonforest carbon stocks in support of forest plan revision, Res. Note RMRS-RN-86. Fort Collins, CO: US Department of Agriculture, Rocky Mountain Research Station.

Sieg CH, Linn RR, Pimont F, Hoffman CM, McMillin JD, Winterkamp J (2020) Processed-based fire models: New tools for an era of novel conditions, *The Innovation Platform*, 1: 288-291.

Helmer E, Gerson EA, Baggett LS, Bird B, Ruzycki T (2019) Neotropical Montane Cloud Forests to Lose Much of What Defines Them: Clouds, AGU Fall Meeting Abstracts 2019, B44D-02.

Owen SM, Patterson AM, Gehring CA, Sieg CH, Baggett LS, Fulé PZ (2019) Large, high-severity burn patches limit fungal recovery 13 years after wildfire in a ponderosa pine forest, *Soil Biology and Biochemistry*, 139, 107616.

Iniguez JM, Fowler JF, Moser WK, Sieg CH, Baggett LS, Shin P (2019) Tree and Opening Spatial Patterns Vary by Tree Density in Two Old-Growth Remnant Ponderosa Pine Forests in Northern Arizona, USA, *Forest Ecology and Management*, 450, 117502.

Krebs MA, Reeves MC, Baggett LS (2019) Predicting Understory Vegetation Structure in Selected Western Forests of the United States Using FIA Inventory Data, *Forest Ecology and Management*, 448, 509-527.

Helmer EH, Gerson EA, Baggett LS, Bird BJ, Ruzycki TS, Voggesser SM (2019) Neotropical Cloud Forests and Páramo to Contract and Dry from Declines in Cloud Immersion and Frost, *PLoS One*, 14(4).

Graham RT, Asherin LA, Jain TB, Baggett LS, Battaglia MA (2019) Differing Ponderosa Pine Forest Structures, Their Growth and Yield, and Mountain Pine Beetle Impacts: Growing Stock Levels in the Black Hills, RMRS-GTR-393. Fort Collins, CO: US Department of Agriculture, Forest Service.

Brown PM, Gannon B, Battaglia MA, Fornwalt PJ, Huckaby LS, Cheng AS, Baggett LS (2019) Identifying Old Trees to Inform Ecological Restoration in Montane Forests of the Central Rocky Mountains, USA, *Tree-Ring Research*, 75(1), 34-48.

Parks SA, Parisien MA, Miller C, Holsinger L, Baggett LS (2018) Fine-Scale Spatial Climate Variation and Drought Mediate the Likelihood of Reburning, *Ecological Applications*, 0(0), 1-14.

Reynolds RT, Lambert JS, Flather CH, White GC, Bird BJ, Baggett LS, Lambert C, Bayard De Bolo S (2017) Long-Term Demography of the Northern Goshawk in a Variable Environment, *Wildlife Monographs*, 197(1), 1-40.

Sikkink PG, Jain TB, Reardon J, Heinsch FA, Keane RE, Butler B, Baggett LS (2017) Effect of particle aging on chemical characteristics, smoldering, and fire behavior in mixed-conifer masticated fuel, *Forest Ecology and Management*, 405, 150-165.

Sieg CH, Linn RR, Pimont F, Hoffman CM, McMillin JD, Winterkamp J, Baggett LS (2017) Fires Following Bark Beetles: Factors Controlling Severity and Disturbance Interactions in Ponderosa Pine, *Fire Ecology*, 13(3), 1-23.

Flather CH, Knowles MS, Baggett LS (2017) Land Cover Dynamics Across the Great Plains and Their Influence on Breeding Birds: Potential Artefact of Data and Analysis Limitations, *Biological Conservation*, 213, 243-244.

Owen SM, Sieg CH, Meador AJS, Fule PZ, Iniguez JM, Baggett LS, Fornwalt PJ, Battaglia MA (2017) Spatial Patterns of Ponderosa Pine Regeneration in High-Severity Burn Patches, *Forest Ecology and Management*, 405(1), 134-149.

Hansen EM, Munson AS, Blackford DC, Graves AD, Coleman TW, Baggett LS (2017) 3-Methylcyclohex-2-en-1-one for area and individual tree protection against spruce beetle (Coleoptera: Curculionidae: Scolytinae) attack in the southern Rocky Mountains, *Journal of Economic Entomology*, 110(5), 2140-2148.

Morgan P, Hudak AT, Wells A, Parks SA, Baggett LS, Bright BC, Green P (2017) Multidecadal trends in area burned with high severity in the Selway-Bitterroot Wilderness Area 1880-2012, *International Journal of Wildland Fire*, 26, 930-943, doi:10.1071/WF17023.

Warren SD, Aguilera LE, Baggett LS, Zuniga M (2017) Floral orientation in *Eulychnia acida*, an arborescent cactus of the Atacama Desert, and implications for cacti globally, *Ecosphere*, 8(10), e01937, doi:10.1002/ecs2.1937.

Hansen EM, Munson AS, Blackford DC, Wakarchuk D, Baggett LS (2016) Lethal Trap Trees and Semiochemical Repellents as Area Host Protection Strategies for Spruce Beetle (Coleoptera: Curculionidae, Scolytinae) in Utah, *Journal of Economic Entomology*, 109(5), 2137-2144.

Warren SD, Baggett LS, Warren H (2016) Directional Floral Orientation in Joshua Trees, *Western North American Naturalist*, 76(3), 374-378.

Warren SD, Aguilera LE, Baggett LS (2016) Directional Orientation of Reproductive Tissue of *Eulychnia breviflora* (Cactaceae) in the Hyperarid Atacama Desert, *Revista Chilena de Historia Natural*, 89(10).

Smits KM, Kirby E, Massman WJ, Baggett LS (2016) Experimental and Modeling Study of Forest Fire Effect on Soil Thermal Conductivity, *Pedosphere*, 26(4), 462-473.

Parks SA, Miller C, Holsinger LM, Baggett LS, Bird BJ (2016) Wildland Fire Limits Subsequent Fire Occurrence, *International Journal of Wildland Fire*, 25, 182-190.

Cooke B, Parks S, Miller C, Holsinger L, Nelson C, Holden Z, Baggett LS, Bird B (2016) Wildland Fire: Nature's Fuel Treatment, *Science You Can Use Bulletin*. Fort Collins, CO: Rocky Mountain Research Station, 22, 1-11.

Additional Publications (Prior to 2016)

Ganey JL, Bird BJ, Baggett LS, Jenness JS (2015) Density of large snags and logs in northern Arizona mixed-conifer and ponderosa pine forests, *Forest Science*, 61(2), 353-362.

- Quentin AG, Pinkard EA, Ryan MG, Tissue DT, Baggett LS, et al. (2015) Non-structural carbohydrates in woody plants compared among laboratories, *Tree Physiology*, 35(11), 1146-1165, doi:10.1093/treephys/tpv073.
- Riggs RA, Keane RE, Cimon N, Cook R, Holsinger L, Cook J, DelCurto T, Baggett LS, Justice D, Powell D, Vavra M, Naylor B (2015) Biomass and fire dynamics in a temperate forest-grassland mosaic: Integrating multi-species herbivory, climate, and fire with the FireBGCv2/GrazeBGC system, *Ecological Modelling*, 296, 57-78.
- Warren SD, St.Clair LL, Johansen JR, Kugrens P, Baggett LS, Bird BJ (2015) Biological soil crust response to late season prescribed fire in a Great Basin juniper woodland, *Rangeland Ecology & Management*, 68(3), 241-247, doi:10.1016/j.rama.2015.03.007.
- Reeves MC, Baggett LS (2014) A remote sensing protocol for identifying rangelands with degraded productive capacity, *Ecological Indicators*, 43, 172-182.
- Stephens EH, Saltarelli JG, Balaoing LR, Baggett LS, et al. (2012) Hyaluronan turnover and hypoxic brown adipocytic differentiation are co-localized with ossification in calcified human aortic valves, *Pathology - Research and Practice*, 208(11), 642-650.
- Holden ZA, Abatzoglou JT, Luce CH, Baggett LS (2011) Empirical downscaling of daily minimum air temperature at very fine resolutions in complex terrain, *Agricultural and Forest Meteorology*, 151(8), 1066-1073.
- Xu S, Morse AM, Lacy B, Baggett LS, Gogola GR (2011) Peg Restrained Intrinsic Muscle Evaluator (PRIME): Development, reliability, and normative values of a device to quantify intrinsic hand muscle strength in children, *Journal of Hand Surgery*, 36A, 894-903.
- Chew SA, Kretlow JD, Spicer PP, Edwards AW, Baggett LS, Tabata Y, Kasper FK, Mikos AG (2011) Delivery of plasmid DNA encoding bone morphogenic protein-2 with a biodegradable branched polycationic polymer in a critical-size rat cranial defect model, *Tissue Engineering Part A*, 17(5-6), 751-763.
- Shi M, Kretlow JD, Nguyen A, Young S, Baggett LS, Wong ME, Kasper FK, Mikos AG (2010) Antibiotic-releasing porous polymethylmethacrylate constructs for osseous space maintenance and infection control, *Biomaterials*, 31, 4146-4156.
- Guo X, Park H, Young S, Kretlow JD, van den Beucken JJ, Baggett LS, Tabata Y, Kasper FK, Mikos AG, Jansen JA (2010) Repair of osteochondral defects with biodegradable hydrogel composites encapsulating marrow mesenchymal stem cells in a rabbit model, *Acta Biomaterialia*, 6, 39-47.
- Thibault RA, Baggett LS, Mikos AG, Kasper FK (2010) Osteogenic differentiation of mesenchymal stem cells on pre-generated extracellular matrix scaffolds in the absence of osteogenic cell culture supplements, *Tissue Engineering Part A*, 16(2), 431-440.
- Schuler DA, Chappell M, Baggett LS (2010) A unique pedagogical approach to voting and public goods, *PS: Political Science & Politics*, 43(4), 779-783, doi:10.1017/S1049096510001241.
- Stephens EH, Saltarelli JG, Baggett LS, Nandi I, Kuo JJ, Davis AR, Olmsted-Davis EA, Reardon M, Morrisett JD, Grande-Allen KJ (2010) Differential proteoglycan and hyaluronan

distribution in calcified aortic valves, *Cardiovascular Pathology*, 20(6), doi:10.1016/j.carpath.2010.10.002.

Saltarrelli JG, Stephens EH, Pilling D, Baggett LS, Gomer RH, Nandi KJJ, Davis E, Davis AR, Grande-Allen KJ (2009) Hypoxia, inflammatory cells, and hyaluronan homeostasis in aortic valve calcification, *Proceedings of the American Heart Association*, Orlando, FL.

Saraf A, Baggett LS, Raphael RM, Kasper FK, Mikos AG (2009) Regulated non-viral gene delivery from coaxial electrospun fiber mesh scaffolds, *Journal of Controlled Release*, 143, 95-103.

Saraf A, Lozier G, Haesslein A, Kasper FK, Raphael RM, Baggett LS, Mikos AG (2009) Fabrication of nonwoven coaxial fiber meshes by electrospinning, *Tissue Engineering Part C*, 15(3), 333-344.

Young S, Patel ZS, Kretlow JD, Murphy MB, Mountziaris PM, Baggett LS, Ueda H, Tabata Y, Jansen JA, Wong F, Mikos AG (2009) Dose effect of dual delivery of vascular endothelial growth factor and bone morphogenic protein-2 on bone regeneration in a rat critical-size defect model, *Tissue Engineering Part A*, 15, 2347-2362.

Stephens EH, Timek TA, Daughters GT, Kuo JJ, Patton AM, Baggett LS, Ingels NB, Miller DC, Grande-Allen KJ (2009) Significant changes in mitral valve leaflet matrix composition and turnover with tachycardia-induced cardiomyopathy, *Circulation*, 120, 112-119.

Anderson SW, Baggett LS, Widener SK (2009) The impact of service operations failures on customer satisfaction: Evidence on how failures and their source affect what matters to customers, *Manufacturing & Service Operations Management*, 11(1), 52-69, doi:10.1287/msom.1070.0193.

Kretlow JD, Jin Y, Liu W, Zhang WJ, Hong T, Zhou G, Baggett LS, Mikos AG, Cao Y (2008) Donor age and cell passage affect differentiation potential of murine bone marrow-derived stem cells, *BMC Cell Biology*, 9(60), 1-13.

Pham QP, Kasper FK, Baggett LS, Raphael RM, Jansen JA, Mikos AG (2008) The influence of an in vitro generated bone-like extracellular matrix on osteoblastic gene expression of marrow stromal cells, *Biomaterials*, 29(18), 2729-2739.

Young S, Kretlow JD, Nguyen C, Bashoura AG, Baggett LS, Jansen JA, Wong M, Mikos AG (2008) Microcomputed tomography characterization of neovascularization in bone tissue engineering applications, *Tissue Engineering Part B: Reviews*, 14(3), 295-306.

Young S, Bashoura AG, Borden T, Baggett LS, Jansen JA, Wong M, Mikos AG (2008) Development and characterization of a rabbit alveolar bone nonhealing defect model, *Journal of Biomedical Materials Research Part A*, 86, 182-194.

Baggett LS, Thompson JR (2008) Everyman's MaxMedian rule for portfolio management, *Proceedings of the Thirteenth U.S. Army Conference on Applied Statistics*.

Holland TA, Bodde EWH, Cuijpers VMJI, Baggett LS, Tabata Y, Mikos AG (2007) Degradable hydrogel scaffolds for in vitro delivery of single and dual growth factors in cartilage repair, *Osteoarthritis and Cartilage*, 15, 187-197.

Revell CM, Dietrich JA, Scott CA, Luttge A, Baggett LS, Athanasiou KA (2006) Characterization of fibroblast morphology on bioactive surfaces using vertical scanning interferometry, *Matrix Biology*, 25, 523-533.

Almarza AJ, Bean A, Baggett LS, Athanasiou KA (2006) Biochemical characteristics of the porcine temporomandibular joint disc, *British Journal of Oral and Maxillofacial Surgery*, 44(2), 124-128.

Thompson JR, Baggett LS (2006) The little formula that beats the market, *Proceedings of the Twelfth U.S. Army Conference on Applied Statistics*.

Thompson JR, Baggett LS, Williams EE, Wojciechowski WC (2006) Nobels for nonsense, *The Journal of Post Keynesian Economics*, 29(1), 3-18.

Holland TA, Bodde EWH, Baggett LS, Tabata Y, Mikos AG, Jansen JA (2005) Osteochondral repair in the rabbit model utilizing bilayered, degradable oligo(poly(ethylene glycol) fumarate) hydrogel scaffolds, *Journal of Biomedical Materials Research Part A*, 75, 156-167.

Holland TA, Bodde EWH, Baggett LS, Tabata Y, Mikos AG, Jansen JA (2005) Osteochondral repair in the rabbit model utilizing oligo(poly(ethylene glycol) fumarate) hydrogel scaffolds, *Transactions of the 51st Annual Meeting of the Orthopaedic Research Society*.

Thompson JR, Baggett LS, Wojciechowski WC (2004) Some things we know that just aren't so, *Proceedings of the Second Lehmann Symposium*.

Schuler DA, Schneitz KE, Baggett LS (2002) Determinants of foreign trade mission participation, *Business and Society*, 41(1), 6-35.

Currall SC, Hammer T, Baggett LS, Doniger G (1999) Combining qualitative and quantitative methodologies of study group processes, *Organizational Research Methods*, 2, 5-36.

Baggett LS, Bright TJ (1985) Coral recruitment at the East Flower Garden Reef, *Proceedings of the 5th International Coral Reef Congress*, 4, 379-384.

Expert Trial and Deposition Testimony (Prior 4 Years, per C.R.C.P. 26(a)(2)(B))

2026, Consulting/Testifying Expert, Tracy Laboy, on behalf of herself and all others similarly situated, v. Banner Health, United States District Court, District of Colorado, Civil Action No. 1:25-cv-02868-CNS-STV.

2026, Consulting/Testifying Expert, Denise Stott et al. v. USAA et al., United States District Court, Central District of California, Western Division.

2025, Consulting/Testifying Expert, Caryn Jennings et al. v. USAA et al., United States District Court, Western District of Washington at Tacoma.

2025, Consulting/Testifying Expert, Malloreay Tomczak et al. v. USAA et al., United States District Court, District of South Carolina.

2025, Consulting/Testifying Expert, Salvador Cervantes and Shawn Rentie v. Wendy's of Colorado Springs, District Court, Denver County, State of Colorado.

2025, Consulting/Testifying Expert, Catherine Pacheco et al. v. SOMIP, Inc., District Court, Denver County, State of Colorado.

2024, Consulting/Testifying Expert, Jose Gonzalez Gomez et al. v. Epic Landscape Productions, L.C., United States District Court for the District of Kansas.

2023, Consulting/Testifying Expert, Edward Anderson, Raymond Keith Corum, Jesse and Colleen Worthington, individually and on behalf of all others similarly situated v. Edward D. Jones & Co., L.P., US District Court, Eastern District of California.

2023, Consulting/Testifying Expert, Arrison et al. v. Walmart, Inc. and Walmart Associates, Inc., US District Court of Arizona, Phoenix Division.

Additional Expert Testimony (Prior to 2023)

2016, Consulting/Testifying Expert, Penny Davenport et al. v. Charter Communications, LLC, United States District Court, Eastern District of Missouri, Case No. 4:12-cv-00007-AGF.

2006, Consulting/Testifying Expert, Michelle Braun and Deborah Hummel, on behalf of themselves and all others similarly situated, v. Wal-Mart Stores, Inc., Court of Common Pleas, Philadelphia County, Pennsylvania.

2004, Consulting/Testifying Expert, Braun et al. v. Wal-Mart Stores, Inc., Dakota County District Court, State of Minnesota.

2010, Consulting/Testifying Expert, Garcia et al. v. Tyson Foods, Inc. and Tyson Fresh Meats, Inc., United States District Court, District of Kansas.