BRIEF CURRICULUM VITAE

John Weldon Seaman, Jr., B.S., M.S., Ph.D. Professor of Statistics

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EDUCATION	University:	U. of Texas at Dallas
		B.S., Mathematical Sciences, 1978
	Graduate:	U. of Texas at Dallas
		M.S., Mathematical Sciences, 1979
		Ph.D., Mathematical Sciences, 1983

PROFESSIONAL ORGANIZATIONS:

American Statistical Association American Association for the Advancement of Science Union of Concerned Scientists

PUBLICATIONS: (* indicates my Ph.D. students)

- Lu*, Y., Carlin, B., and Seaman, J. (2024) "Bayesian inference for prediction of survival probability in prime-boost vaccination regimes," *Statistics in Medicine* **43**(3), 560-577.
- Altan, S., Faya*, P., Rauk, A., LeBlond, D., Seaman, J., and Banton, D. (2023) "Stability analysis using mixed models: A critique of tolerance interval methods and a probabilistic solution," *Pharmaceutical Statistics* 22(5), 784-796.
- Seaman, J., Kahle, D., and Stamey, J. (2022) "Basic Bayesian model checking," in *Case Studies in Bayesian Methods for Biopharmaceutical CMC*, Edited by Paul Faya and Tony Pourmohamad, Chapman & Hall: Boca Raton.
- Kahle, D., Seaman, J., and Stamey, J. (2022) "An overview of Bayesian computation," in *Case Studies in Bayesian Methods for Biopharmaceutical CMC*, Edited by Paul Faya and Tony Pourmohamad, Chapman & Hall: Boca Raton.
- Faya*, P., Novick, S., Seaman, J., Peterson, J., Pourmohamad, T., Banton, D., and Zheng, Y. (2022) "Continuous Method Validation: Beyond One-Time Studies to Characterize Analytical Methods," *Statistics in Biopharmaceutical Research*, 15(1), 225-233.
- Stamey, J. and Seaman, J. (2021) "Bayesian adjustment for misclassification," in the Handbook of Measurement Error Models, Edited by Yi, G., Delaigle, A., and Gustafson, P., Chapman & Hall: Boca Raton.
- Faya*, P., Sondag, P., Novick, S., Banton, D., Seaman, J., Stamey, J., Boulanger, B. (2021) "The current state of Bayesian methods in nonclinical pharmaceutical statistics," *Pharmaceutical Statistics* 20(2) 245-255
- Seaman, J., Stamey, J. D., Kahle, D. J., Blair*, S. (2019) "A Brief Guide to Bayesian Model Checking," in Lakshminarayanan and Natanegara (eds.) (2019) Bayesian Applications in Pharmaceutical Development, Chapman & Hall, Boca Raton.
- Heilmann, C. R., Natanegara,* F., Costa, M. J., Sanchez-Kam, M., Seaman, J. (2019)
 "Executing and Reporting Clinical Trial Simulations: Practical Recommendations for Best Practices," in Lakshminarayanan and Natanegara (eds.) (2019) *Bayesian Applications in Pharmaceutical Development*, Chapman & Hall, Boca Raton

- Faya*, P., Seaman, J., Stamey, J. (2019) "Power Priors for Sample Size Determination in the Process Validation Life Cycle," in Lakshminarayanan and Natanegara (eds.) (2019)
 Bayesian Applications in Pharmaceutical Development, Chapman & Hall, Boca Raton
- Montague, T. H., Price,* K. L., Seaman, J. (2019) "The Practice of Prior Elicitation," in Lakshminarayanan and Natanegara (eds.) (2019) Bayesian Applications in Pharmaceutical Development, Chapman & Hall, Boca Raton
- Faya,* P., Stamey, J., Seaman, J. (2018) "Using accelerated drug stability results to inform long-term studies in shelf life determination," *Statistics in Medicine* **37** (17): 2599-2615.
- Chen, W., Zhang, X., Faries, D., Shen, W., Seaman, J., Stamey, J. (2017) "A Bayesian approach to correct for unmeasured or semi-unmeasured confounding in survival data using multiple validation data sets," *Epidemiology Biostatistics and Public Health*, **14** (4), e12634-1. 10.2427/12634.
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- Faya,* P., Seaman, J., Stamey, J. (2017). Bayesian assurance and sample size determination in the process validation life-cycle. *Journal of Biopharmaceutical Statistics*, 27, 159-174.
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- Meaux*, Young, & Seaman, "Multivariate Regression Analysis with Dependent Observations; Conditions for the Invariance of the Distribution of the Lawly-Hotelling Tests of Model Utility," *Statistica*, 54, 139-150, 1995.
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- Young, D.M., Turner, D.W., and Seaman, J., "A Note on an Exponential Upper Bound for Binomial Probabilities," *The Texas J. of Science*, **40**, No. 3, pp. 342-345, August 1988.
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- Seaman, J., Young D., and Odell, P., "Improving Small Sample Variance Estimators for Bounded Random Variables," *The Journal of Industrial Mathematics*, **37**, Part 1, pp. 65-75, 1987.
- Young, D., Seaman J., and Jennings, L., "Bounds on the Error Rate for Equal-Mean Discrimination with Known Population Parameters," *Statistica*, Vol. XLVII, No. 1, pp. 85-96, 1987.
- Seaman, J., Young, D., and Marco, V., "A Note on Improved Variance Bounds for Certain Bounded Unimodal Distributions," *Statistics and Probability Letters*, **4**, pp. 273-274, 1986.
- Seaman, J., Young, D., and Marco, V., "On the Variance of Bounded Continuous Unimodal Distributions," *The Mathematical Scientist*, **11**, pp. 103-106, 1986.
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- Seaman, J., and Odell, P., "On Goldstein's Variance Bound," Advances in Applied Probability, 17, pp. 679-681, 1985.

PH.D. STUDENTS

- 1. Navard, Sharon E., Ph.D., December 1987
- 2. Meaux, Laurie, Ph.D., May 1988
- 3. Tracy, Nola, Ph.D., December 1988
- 4. Davis, Robert, Ph.D., August, 1989
- 5. Laviolette, Michael, Ph.D., August, 1989
- 6. Hebert, Jamie, Ph.D. May, 1990
- 7. Walsh, Dennis (Co-directed w/ Dr. Charles Anderson), Ph.D. May, 1991
- 8. Burk, Scott, Ph.D. May 1995
- 9. Miller, Melinda, Ph.D. May 1995
- 10. David, Stacy, Ph.D. May 1996
- 11. Umble, Liz, Ph.D. May 1996
- 12. Manner, David, Ph.D. May 1997
- 13. Smith, Marty, Ph.D. December 1999
- 14. Mark Hamner, Ph.D. May 2000
- 15. Karen Andrews, Ph.D. August 2001
- 16. Jannell Erickson, Ph.D. August 2001
- 17. Kathleen Morley, Ph.D. December 2001
- 18. Sunni Barnes, Ph.D. May 2003
- 19. Fanni Nataragana, Ph.D. May 2003
- 20. Amy Maddox, Ph.D. December 2003
- 21. Jose Guardiola, Ph.D. May 2004

- 22. Melissa Spann, Ph.D. May 2006
- 23. Amy Feng, Ph.D. May 2006
- 24. Page Moore, Ph.D. May 2006
- 25. Patricia Carlin-Bahnsen, Ph.D. August 2006
- 26. Anna McGlothlin (Co-directed w/ Dr. James Stamey), Ph.D. May 2007
- 27. Jesús Cuéllar, Ph.D. May 2008
- 28. Jo Edmunds, Ph.D. May 2008
- 29. JoAnna Crixell (Co-directed w/ Dr. James Stamey), Ph.D. August 2008
- 30. Kaz Miyamoto Ph.D. August 2008
- 31. MaryAnn Morgan-Cox (Co-directed w/ Dr. James Stamey), Ph.D. Spring 2010
- 32. Jessica Pruszynski Ph.D. Spring 2010
- 33. John Seaman, III (Co-directed w/ Dr. James Stamey), Ph.D. Spring 2010
- 34. Sydeaka Watson Ph.D. Spring 2011)
- 35. Monica Bennet (Co-directed w/ Dr. James Stamey), Ph.D. Spring 2011
- 36. Stephanie Simon Ph.D. Spring 2012
- 37. Hua Wei (Co-directed w/ Dr. James Stamey), Ph.D. Spring 2012
- 38. Ross Bray, Ph.D. Spring 2013
- 39. Jack Knorr (Co-directed w/ Dr. James Stamey), Ph.D. Summer 2014
- 40. Joyce Cheng (Co-directed w/ Dr. David Kahle), Ph.D. Spring 2015
- 41. Michelle Marcovitz, Ph.D., Summer 2015
- 42. Kristen Tecson, Ph.D., Spring 2015
- 43. Somer Blair, Ph.D., (Co-directed w/ Dr. David Kahle) Spring 2017
- 44. Paul Faya, Ph.D., (Co-directed w/ Dr. James Stamey) Spring 2017
- 45. Madeline Drevits, Ph.D., Summer 2017
- 46. Divya Lakshminarayan, Ph.D., Fall 2019
- 47. Angel Lu, Ph.D., Fall 2019
- 48. Purvi Prajapati (Co-directed w/ Dr. James Stamey), Ph.D., Summer 2020
- 49. Cathy Xie, Summer 2023
- 50. Randy Nguyễn, Summer 2024, anticipated
- 51. Bel Zhang, Summer 2025, anticipated
- 52. Clara Anderson, Summer 2026, anticipated
- 53. Kaylee Pascarella, Summer 2026, anticipated

SERVICE AS A REFEREE

The American Statistician	Ecology
Herpetologica	Journal of Multivariate Analysis
Pattern Recognition	Technometrics
Statistics and Probability Letters	Statistics in Medicine
Computational Statistics and Data Analysis	Statistics in Biopharmaceutical Research
Statistics in Biosciences	-

AWARDS

- 1991-92 Outstanding Research Professor, Baylor University System
- 1995-96 Graduate School Award for Outstanding Service
- 1994 Technometrics Invited Paper, Joint Statistical Meetings

- 1996 Youden Prize from the American Statistical Association and the American Society for Quality Control.
- 1999 *Technometrics* Invited Paper, Joint Statistical Meetings
- 2000 Outstanding Professor, Hankamer School of Business
- 2003 Outstanding Professor, Graduate Student Association, Baylor University
- 2012 Department selected for the ASA SPAIG award (Statistical Partnerships among Academe, Industry, and Government) for joint research with Eli Lilly & Co.

GRADUATE COURSES TAUGHT

Mathematical statistics	Multivariate methods
Bayesian statistical theory	Bayesian statistical methods
Classical statistical inference	Nonparametric theory & methods
Semiparametric regression	Survival analysis
Categorical data analysis	Mathematical ecology
Game theory	Evolutionary game theory
Statistical methods	