

CURRICULUM VITAE

Limin Peng

EDUCATION

2005	Ph.D., Statistics, University of Wisconsin-Madison
2000	M.S., Probability and Mathematical Statistics, University of Science and Technology of China
1997	B.S., Computer Science, University of Science and Technology of China

PROFESSIONAL EXPERIENCE

2016—Present	Professor (with tenure) Department of Biostatistics and Bioinformatics, Emory University
2011—2016	Associate Professor (with tenure) Department of Biostatistics and Bioinformatics, Emory University
2014—2016	Director of Graduate Studies for the Biostatistics Program Laney School of Graduate Studies, Emory University
2005—2011	Rollins Assistant Professor Department of Biostatistics and Bioinformatics, Emory University
Summer 2003	Statistician/Full-time Summer Intern Global Discovery and Development, Eli Lilly and Company
2001—2003	Research Assistant Department of Biostatistics and Medical Informatics, University of Wisconsin-Madison
2000—2001	Teaching Assistant Department of Statistics, University of Wisconsin-Madison

HONORS AND AWARDS

- Senior Research Award, Rollins School of Public Health, 2024
- Fellow, Institute of the Mathematical Statistics (IMS), 2022
- Fellow, Woodruff Leadership Academy, Emory Robert W. Woodruff Health Science Center, 2019
- Mortimer Spiegelman Award, American Public Health Association, 2017
- Fellow, American Statistical Association (ASA), 2016
- Honorable Mention for Biostatistics Teaching award (Rollins School of Public Health, Emory University, 2012, 2015, 2016, 2018)
- ASA travel award to 2013 International Statistical Institute (National Science Foundation)

- Recipient of Rollins Endowed Assistant Professorship (Rollins School of Public Health, Emory University, 2005—2011).
- Statistical and Applied Mathematical Sciences Institute (SAMSI) Travel Award (2007)
- Merck Foundation Fellowship (University of Wisconsin-Madison, 2004—2005)
- Vilas Travel Award (University of Wisconsin-Madison, 2004)
- Guang-Hua Graduate Student Award (University of Science and Technology of China, 1999)
- Outstanding Student Award (University of Science and Technology of China, 1993—1997)

RESEARCH

Peer-reviewed publications

Journal Articles (Statistical Methods-oriented)

1. Zhao, L. and **Peng, L.** (2001). Model selection for canonical correlation analysis. *Acta Mathematicae Applicatae Sinica*, **17**, 539-549.
2. Zhao, L. and **Peng, L.** (2002). Model selection under order restriction. *Statistics and Probability Letters*, **57**, 301-306.
3. **Peng, L.** and Fine, J. P. (2006). Nonparametric estimation with left truncated semi-competing risks data. *Biometrika* **93**, 367-383.
4. **Peng, L.** and Fine, J. P. (2006). Rank estimation of accelerated lifetime models with dependent censoring. *Journal of the American Statistical Association* **101**, 1085-1093.
5. **Peng, L.** and Fine, J. P. (2007). Regression modeling of semi-competing risks data. *Biometrics* **63**, 96-108.
6. #**Peng, L.** and Huang, Y. (2007). Survival analysis with temporal covariate effects. *Biometrika* **94**, 719-733.
7. **Peng, L.** and Fine, J. P. (2007). Nonparametric quantile inference with competing risks. *Biometrika* **94**, 735-744.
8. Johnson, B. A. and **Peng, L.** (2008). Rank-based variable selection. *Nonparametric Statistics* **20**, 241-251.
9. Lu, W. and **Peng, L.** (2008). Semiparametric analysis of mixture regression models with competing risks data. *Lifetime Data Analysis* **14**, 231-252.
10. #**Peng, L.** and Fine, J. P. (2008). Nonparametric tests for continuous covariate effects with multivariate survival data. *Biometrics* **64**, 1080-1089.
11. #**Peng, L.** and Huang, Y. (2008). Survival analysis based on quantile regression models. *Journal of the American Statistical Association* **103**, 637-649.

12. Huang, Y. and **Peng, L.** (2009). Accelerated recurrent time models. *Scandinavian Journal of Statistics* **36**, 636-648.
13. Todem, D., Fine, J. P., and **Peng, L.** (2009). A global sensitivity test for evaluating statistical hypotheses with non-identifiable models. *Biometrics* **66**, 558-566.
14. **Peng, L.** and Fine, J. P. (2009). Competing risks quantile regression. *Journal of the American Statistical Association* **104**, 1440-1453.
15. Chen, H., Manatunga, A., Lyles, B., **Peng, L.**, Marcus, M. (2009). Flexible modeling of longitudinal highly skewed outcomes. *Statistics in Medicine* **28**, 3811-3828.
16. †Qian, J. and #**Peng, L.** (2010). Censored quantile regression with partially functional effects. *Biometrika* **97**, 839--850.
17. †Li, R. and #**Peng, L.** (2011). Quantile regression for left-truncated semi-competing risks data. *Biometrics* **67**, 701--710.
18. #**Peng, L.**, Li, R., Guo, Y., and Manatunga, A. (2011). A framework for assessing the broad sense agreement between ordinal and continuous measurements. *Journal of the American Statistical Association* **106**, 1592—1601.
19. †Ji, S., #**Peng, L.**, Cheng, Y., and Lai, H. (2012). Quantile regression for doubly censored data. *Biometrics* **68**, 101-112.
20. #**Peng, L.** (2012). A note on self-consistent estimation of censored regression quantiles. *Journal of Multivariate Analysis* **105**, 368--379.
21. Guo, Y., Li, R., **Peng, L.**, and Manatunga, A. (2013). New agreement measures based on survival process. *Biometrics* **69**, 874-882.
22. #**Peng, L.**, Xu, J., and Kutner, N. (2014). Shrinkage estimation of varying covariate effects based on quantile regression. *Statistics and Computing*, **24**, 853-869.
23. †Li, R. and #**Peng, L.** (2014). Varying coefficient subdistribution regression for left-truncated semi-competing risks data, *Journal of Multivariate Analysis* **131**, 65-78.
24. †Ji, S., #**Peng, L.** and Lynn, M. (2014). Analysis of dependently censored data based on quantile. *Statistica Sinica*, **24**, 1411-1432.
25. †Li, R. and #**Peng, L.** (2015). Quantile Regression Adjusting for Dependent Censoring from Semi-Competing Risks. *Journal of the Royal Statistical Society: Series B (Statistical Methodology)*. **77**, 107-130.
26. †Sun, X., #**Peng, L.**, Huang, Y., and Lai, H-C (2016). Generalizing Quantile Regression for Counting Processes with Applications to Recurrent Events. *Journal of the American Statistical Association* **111**, 145-156. DOI: 10.1080/01621459.2014.995795.
27. †Zheng, Qi and #**Peng, L.** (2017). Consistent model identification of varying coefficient quantile regression with BIC tuning parameter selection. *Communication in Statistics* **46**, 1031-1049.
28. †Zheng, Q., #**Peng, L.** and He, X.(2015). Globally Adaptive Quantile Regression with Ultra-High Dimension Data. *Annals of Statistics*, **43**, 2225-2258.

29. †Sun, X., #Peng, L., Manatunga, A. and Marcus, M. (2016). Quantile Regression Analysis of Censored Longitudinal Data with Irregular Outcome-Dependent Follow-up. *Biometrics* 72, 64-73. DOI:10.1111/biom.12367.
30. #Peng, L., Manatunga, A., Wang, M., Guo, Y., Rahman, A.F. (2016). A general approach to categorizing a continuous scale according to a categorical scale. *Journal of Statistical Planning and Inference*, 172, 23-35.
31. †Yang, J. and #Peng, L. (2016). A New Flexible Dependence Measure for Semi-Competing Risks Data. *Biometrics* 72, 770-779. DOI: 10.1111/biom.12491.
32. Li, J., Zheng, Q., and Peng, L., Huang, Z. (2016). Survival Impact Index and Ultrahigh-dimensional Model-free Screening with Survival Outcomes. *Biometrics* 72(4), 1145-1154.
33. †Li, R. and #Peng, L. (2017). Assessing Quantile Prediction With Censored Quantile Regression Models. *Biometrics* 73(2), 517-528.
34. †Rahman, F.A., #Peng, L., Manatunga, A., and Guo, Y. (2017). Nonparametric Regression Method for Broad Sense Agreement. *Journal of Nonparametric Statistics*, 29, 280-300.
35. Liu, S., Manatunga, A., Peng, L., and Marcus, M. (2016). A joint modeling approach for multivariate survival data with random length. *Biometrics*, 73(2), 666-677.
36. †Zheng, Q., #Peng, L. and He, X. (2018). High Dimensional Censored Quantile Regression. *Annals of Statistics*, 46 (1), 308-343.
37. Dai, T., Guo, Y., Peng, L., and Manatunga, A. (2018). A Local Agreement Pattern Measure Based on Hazard Functions for Survival Outcomes. *Biometrics* 74 (1). 86-99.
38. †Yang, J. and #Peng, L. (2018). Estimating cross quantile residual ratio with left-truncated semi-competing risks data. *Lifetime Data Analysis*, 24 (4), 652-674.
39. †Ma, H., #Peng, L., Zhang, Z., and Lai, H. J. (2018). Generalized accelerated recurrence time model for multivariate recurrent event data with missing event type. *Biometrics* 74 (3), 954-965.
40. †Qiu, Z., #Peng, L., Manatunga, A. and Guo, Y. (2019). A smooth nonparametric approach to determining cut-points of a continuous scale. *Computational Statistics & Data Analysis*, 134, 186-210.
41. †Jang, J.H., Peng, L. and Manatunga, A.K. (2019). Assessing alignment between functional markers and ordinal outcomes based on broad sense agreement. *Biometrics* 75, 1367--1379.
42. †Ma, H., #Peng, L. and Fu, H. (2019). Quantile regression modeling of latent trajectory features with longitudinal data. *Journal of Applied Statistics* 46, 2884-2904.
43. †Wei, B., Dai, T., #Peng, L., Guo, Y., and Manatunga, A. (2020). A new functional representation of broad sense agreement. *Statistics and Probability Letters* 158, p.108619.

44. Dai, T., Guo, Y., **Peng, L.** and Manatunga, A. (2020). Nonparametric estimation of broad sense agreement between ordinal and censored continuous outcomes. *Statistics in Medicine* 39 (14): 1952--1964.
45. †Wei, B., Zhang, Z., Lai, H., and #**Peng, L.** (2020). Generalized accelerated recurrence time model in the presence of a dependent terminal event. *The Annals of Applied Statistics* 14 (20), 956-976.
46. †Kianian, B., Kim, J.I., Fine, J.P. and #**Peng, L.** (2021) Causal Proportional Hazards Estimation with a Binary Instrumental Variable. *Statistica Sinica* 31, 1-27. <https://doi.org/10.5705/ss.202019.0096>.
47. †Ma, H., #**Peng, L.**, Huang, C-H, and Fu, H. (2021). Heterogeneous individual risk modeling of recurrent events. *Biometrika* 108, 183-198. <https://doi.org/10.1093/biomet/asaa053>.
48. #**Peng, L.** (2021). Quantile regression for survival data. *Annual Review of Statistics and Its Application* 8, 413-437.
49. †Cui, Y., #**Peng, L.**, Hu, Y., and Lai, H. (2021). Assessing the reproducibility for microbiome measurements based on concordance correlation coefficients. *Journal of the Royal Statistical Society, Series C* 70, 1027-1048 <https://doi.org/10.1111/rssc.12497>. (Distinguished Student Paper Award for the 2021 ENAR Spring Meeting).
50. Balmert, L. C., Li, R., **Peng, L.**, and Jeong, J-H (2021). Quantile Regression on inactivity time. *Statistical Methods in Medical Research* 30(5), 1332-1346.
51. †Wei, B., #**Peng, L.**, Zhang, M-J, and Fine, J. P. (2021). Estimation of causal quantile effects with a binary instrumental variable and censored data. *Journal of the Royal Statistical Society, Series B*, 83, 559--578. (Distinguished Student Paper Award for the 2020 ENAR Spring Meeting).
52. Cui, Y. and #**Peng, L.** (2022). Assessing dynamic covariate effects with survival data. *Lifetime Data Analysis* 28 (4), 675-699.
53. †Zhao, W., #**Peng, L.**, Hanfelt, J. (2022). Semiparametric latent class analysis of recurrent events data. *Journal of the Royal Statistical Society, Series B* 1175-1197.
54. †Li, S. and #**Peng, L.**(2023). Instrumental variable estimation of complier causal treatment effect with interval-censored data. *Biometrics* 79, 253-263.
55. †Wei, B., #**Peng, L.**, Guo, Y., Manatunga, A. and Stevens, J. (2022). Tensor response quantile regression with neuroimaging data. *Biometrics*.

56. †Fei, T., Hanfelt, J., and #Peng, L. (2023). A time-dependent structural model between latent classes and competing risks outcomes. *Biometrics*, 79(1), 488-501. (Distinguished Student Paper Award for the 2020 ENAR Spring Meeting).
57. †Ma, H., Zheng, Q., Zhang, Z., Lai, H., #Peng, L. (2023). Globally adaptive longitudinal quantile regression with high dimensional compositional covariates. *Statistica Sinica* 33, 1295-1318.
58. †Fei, T., Hanfelt, J., #Peng, L. (2024). Latent class proportional hazards regression with heterogeneous survival data. *Statistics and Its Interface*, 17 (1), 79-90.
59. †Cui, Y. and #Peng, L. (2024). Global group testing and screening with dynamic effects. *Statistica Sinica* (in press).
60. Lu, J., Zheng, Y., Cui, Y., Peng, L., and Chen, Z. (2024). A novel phase II single-arm hybrid design to minimize trial duration and enhance subsequent phase III trial success rate. *Journal of Applied Statistics* (accepted).
61. †Qiu, Z., Manatunga, A., Peng, L., and Guo, Y. (2024). Framework for constructing an optimal weighted score based on agreement. *Journal of Applied Statistics* (accepted).
62. †Yu, Q and #Peng, L. (2024). SCLARE: An R package for semiparametric latent class analysis of recurrent events. *The R Journal* (accepted).
63. †Sun, D., #Peng, L., Qiu, Z., Guo, Y., and Manatunaga, A. (2024). Partial quantile tensor regression. *Journal of American Statistical Association* (accepted).

†: the first author is a PhD student or Postdoc that completed the project under the direction of Dr. Peng; #: Dr. Peng serves as the Corresponding author

Journal Articles (Biomedical or public health collaboration-oriented)

64. Pennell, P., Peng, L., Newport, J., Ritchie, J., Koganti, A., Holley, Newman, Stowe, Z. (2008). Lamotrigine in Pregnancy: Clearance, Therapeutic Drug Monitoring, and Seizure Frequency. *Neurology* 70, 2130-2136.
65. Peng, L. and Ross, H. (2009). The impact of cigarette taxes and advertising on the demand for cigarettes in Ukraine. *Central European Journal of Public Health* 17 (2): 93-98.
66. Umpierrez, G.E., Hor, T., Smiley, D., Temponi, A., Umpierrez, D., Ceron, M., Munoz, C., Newton, C., Peng, L., and Baldwin, D. (2009). Comparison of Inpatient Insulin Regimens with DEtemir plus Aspart versus NPH plus regular in Medical Patients with Type 2 Diabetes (DEAN Trial). *Journal of Clinical Endocrinology and Metabolism* 94 (2): 564-569.
67. Umpierrez, G.E., Smiley, D., Robalino, G., Khan, B., Peng, L., Kitabchi, A.E., Le, A., Quyyumi, A., Brown, V., Phillips, L.S. (2009). Free fatty acid-induced blood pressure elevation and endothelial dysfunction in obese African Americans with type 2 diabetes. *Journal of Clinical Endocrinology and Metabolism*, 94:609-614.
68. Umpierrez, G.E., Jones, S., Smiley, D., Mulligan, P., Keyler, T., Temponi, A., Semakula, C., Umpierrez, D., Peng, L., Ceron, M., Robalino, G. (2009). Insulin Analogs versus Human

Insulin in the Treatment of Patients with Diabetic Ketoacidosis: a randomized controlled trial. *Diabetes Care* 32(7), 1164-1169.

69. Rizzo, M., **Peng, L.**, Frisch, A., Jurado, M., and Umpierrez, G.E. (2009). Breast Abscesses in Nonlactating Women With Diabetes: Clinical Features and Outcome. *The American Journal of the Medical Sciences* **338** (2), 123-126.
70. **Peng, L.**, Wu, J., and Benatar, M. (2009). Developing reference data for nerve conduction studies: An application of quantile regression. *Muscle and Nerve* **40**, 763-771.
71. Benatar, M., Wu, J., and **Peng, L.** (2009). Reference data for commonly used sensory and motor nerve conduction studies. *Muscle and Nerve* **40**, 772-794.
72. Smiley, D., Rhee, M., **Peng, L.**, Roediger, L., Mulligan, P., Satterwhite, L., Bowen, P., and Umpierrez, G.E. (2010). Safety and Efficacy of Continuous Insulin Infusion in Non-Critical Care Settings. *Journal of Hospital Medicine* **5**, 212-217.
73. Rizzo, M., Gabram, S., Staley, C., **Peng, L.**, Frisch, A., Jurado, M., Umpierrez, G.E. (2010) Management of Breast Abscesses in Non-Lactating Women. *The American Surgeon*, 292-295.
74. Pasquel, F.J., Spiegelman, R., McCauley, M., Smiley, D., Umpierrez, D., Johnson, R., Rhee, M., Gatcliffe, C., Lin, E., Umpierrez, E., **Peng, L.**, Umpierrez, G.E. (2010). Hyperglycemia during total parenteral nutrition: an important marker of poor outcome and mortality in hospitalized patients. *Diabetes care*, 33(4), 739-741.
75. Umpierrez, G.E., Smiley, D., Robalino, G., **Peng, L.**, Gosmanov, A., Kitabchi, A. (2010). Lack of Lipotoxicity effect on b-cell dysfunction in Ketosis-Prone Type 2 Diabetes Mellitus. *Diabetes care*, 33(3), 626-631.
76. Gosmanov, A., Smiley, D., Robalino, G., Siqueira, J., **Peng, L.**, Kitabchi, A., Umpierrez, G. E. (2010). Effects of Intravenous Glucose Load on Insulin Secretion in Patients with Ketosis-Prone Diabetes Mellitus during Near-Normoglycemia Remission. *Diabetes care*, 33(4), 854-860.
77. Frisch, A., Chandra, P., Smiley, D., **Peng, L.**, Rizzo, M., Gatcliffe, C., Hudson, M., Mendoza, J., Johnson, R., Lin, E., Umpierrez, G.E. (2010). Prevalence and Clinical Outcome of Perioperative Hyperglycemia in non-Cardiac Surgery. *Diabetes Care* 33, 1783-1788.
78. Newton, C.A., Smiley, D., Bode, B.W., Kitabchi, A.E., Davidson, P.C., Jacobs, S., Steed, R.D., Stentz, F., **Peng, L.**, Mulligan, P., Freire, A.X., Temponi, A., Umpierrez, G.E. (2010) A Comparison Study of Continuous Insulin Infusion Protocols in the Medical Intensive Care Unit: Computer-Guided versus Standard Column-Based Algorithms. *Journal of Hospital Medicine* **5**, 432-437.
79. Gosmanov, A., Smiley, D. D., Robalino, G., Siguiera, J., Khan, B., Le, N. A, Patel, R., Quiyyumi, A., **Peng, L.**, Kitabchi, A. E., Umpierrez, G.E. (2010). Effect of Oral and Intravenous Fat Load on Blood Pressure, Endothelial Function, Sympathetic Activity, and Oxidative Stress in Obese Healthy Subjects. *Journal of Physiology-Endocrinology and Metabolism* **299** (6), E953-E958.
80. Umpierrez, G.E., Smiley, D., Jacobs, S., **Peng, L.**, Temponi, A,m Mulligan, P., Umpierrez, D., Olson, D., Rizzo, M. (2011). **R**andomized Study of **B**asal **B**olus Insulin Therapy in the

Inpatient Management of Patients with Type 2 Diabetes Undergoing General Surgery (RABBIT 2 Surgery). *Diabetes Care* 34(2), 256-261.

81. Joey, C.L., Felner, E.I., Muir, A.B., Brown, M., Dorcelet, M., **Peng, L.**, Umpierrez, G.E. (2011). Do obese Children With Diabetic Ketoacidosis Have Type 1 or Type 2 Diabetes? *Primary Care Diabetes* 6, 61--65.
82. Siqueira, J., Smiley, D., Newton, C., Le, N-A, Gosmanov, A. R., **Peng, L.**, Osteen, S. J., Jones, D. P., Quyyumi, A. A., Ziegler, T. R., Umpierrez, G. E. (2011), "Substitution of Standard Soybean Oil with Olive Oil-Based Lipid Emulsion in Parenteral Nutrition: Comparison of Vascular, Metabolic and Inflammatory Effects", *Journal of Clinical Endocrinology & Metabolism* 96, 3207—3216.
83. Randall, L., Begovic, J., Hudson, M., Smiley, D., **Peng, L.**, Pitre, N., Umpierrez, G. E. (2011). Recurrent Diabetic Ketoacidosis in Inner-City Minority Patients: Behavioral, Socioeconomic, and Psychosocial Factors. *Diabetes Care* 34 (9), 1891-1896.
84. Umpierrez, G.E., Spiegelman, R., Zhao, V., Smiley, D.D., Pinzon, I., Griffith, D.P., Peng, L., Morris, T., Luo, M., Garcia, H, Thomas, C., Newton, C.A., and Ziegler, T.R. (2012). A double-blind, randomized clinical trial comparing soybean oil-based versus olive oil-based lipid emulsions in adult medical-surgical intensive care unit patients requiring parenteral nutrition. *Critical Care Medicine* 40(6), 1792--1798.
85. Beck, G.R., Khazai, N.B., Bouloux, G.F., Camalier, C.E., Lin, Y., Garneys, L.M., Siqueira, J., **Peng, L.**, Pasquel, F., Umpierrez, D., Smiley, D., Umpierrez, G.E. (2013). The effects of thiazolidinediones on human bone marrow stromal cell differentiation in vitro and in thiazolidinediones-treated patients with type 2 diabetes. *Translational Research*. 161 (3), 145-155.
86. Farrokhi, F., Klindukhova, O., Chandra, P., **Peng, L.**, Smiley, D., Newton, C., Pasquel, F., Ferreira, M.E., Umpierrez, G.E. Risk Factors for Inpatient Hypoglycemia during Subcutaneous Insulin Therapy in Non-Critically Ill Patients with Type 2 Diabetes, *Journal of Diabetes Science and Technology*, 6 (5), 1022-1029.
87. Gosmanov, A.R., Goorha, S., Stelts, S., **Peng, L.**, Umpierrez, G.E. (2013). Management of hyperglycemia in diabetic patients with hematological malignancies during dexamethasone therapy. *Endocrine Practice*, 19 (2), 231-235.
88. Umpierrez, G.E., Smiley, D., Hermayer, K., Khan, A., Olson, D.E., Newton, C., Jacobs, S., Rizzo, M., **Peng, L.**, Reyes, D., Rinzon, I., Ferreira, M.E., Hunt, V., Gore, A., Toyoshima, M.T., Fonseca, V.A. (2013). A Randomized Study Comparing a Basal Bolus to a Basal Plus Correction Insulin Regimen for the Hospital Management of Medical and Surgical patients with Type 2 Diabetes: Basal Plus Trial, *Diabetes Care* 36, 2169-2174.
89. Umpierrez, G.E., Gianchandani, R., Smiley, D., Jacobs, S., Wesorick, D.H., Newton, C., M.D., Farrokhi, F., **Peng, L.**, Reyes, D., Lathkar-Pradhan, S., and Pasquel, F. (2013). Safety and Efficacy of Sitagliptin Therapy for the Inpatient Management of General Medicine and Surgery Patients with Type 2 Diabetes: A Pilot, Randomized Controlled Study. *Diabetes Care* 36, 3430-5.
90. Smiley, D., Guillermo, E.U., Hermayer, K., Newton, C., Jacobs, S., Olson, D.E., Khan, A., Rizzo, M., **Peng, L.**, Reyes, D. Cardona, S., Fonseca, V. (2013). Difference in inpatient glycemic control and response to subcutaneous insulin therapy between medicine and surgery patients with type 2 diabetes. *Journal of Diabetes and Its Complications* 27, 637-641.

91. Newton, C.A., Adeel, S., Sadeghi-Yarandi, S., Powell, W., Migdal, A., Smiley, D., Olson, D., Chabria, R., Pinzon, I., Toyoshima, M., Nagamia, Z., **Peng, L.**, Johnson, T., Umpierrez, G.E. (2013). Prevalence, quality of care, and complications in long term care residents with diabetes: A multicenter observation study. *Journal of the American Medical Directors Association*, 14, 842-846.
92. Farrokhi F, Chandra P, Smiley D, Pasquel FJ, **Peng L**, Newton CA, Umpierrez GE. Glucose variability is an independent predictor of mortality in hospitalized patients treated with total parenteral nutrition (2014). *Endocr Pract.* 20(1):41-5.
93. Vellanki, P., Bean, R., Oyedokun, F.A., Pasquel, F.J., Smiley, D., Farrokhi, F., Newton, C., **Peng, L.** and Umpierrez, G.E. (2015) Randomized Controlled Trial of Insulin Supplementation for Correction of Bedtime Hyperglycemia in Hospitalized Patients with Type 2 Diabetes. *Diabetes Care*, 38(4), 568-574.
94. Umpierrez, G.E., Cardona, S., Pasquel, F., Jacob, S., **Peng, L.**, Unigwe, M., Newton, C.A., Smiley-Byrd, D., Vellanki, P., Halkos, M., Puskas, J.D., Guyton, R.A., Thourani, V.H. (2015). Randomized Controlled trial of Intensive versus Conservative Glucose Control in Patients Undergoing Coronary Artery Bypass Graft Surgery: GLUCO-CABG Trial. *Diabetes Care* 38(9), 1665-1672.
95. Pasquel, F., Winter, P., **Peng, L.**, Johnson, T., Sadeghi-Yarandi, S., Newton, C., Smiley-Byrd, D., Toyoshima, M., Aram, P., Umpierrez, G.E. (2015). A randomized controlled trial comparing treatment with oral agents and basal insulin in elderly patients with type 2 diabetes in long-term care facilities. *BMJ Open Diabetes & Research*, 3:e000104. doi:10.1136/bmjdr-2015-000104.
96. Haw, S. J., Farrokhi, F., Smiley, D., **Peng, L.**, Reyes, D., Newton, C., Pasquel, F.J., Vellanki, P., and Umpierrez, G.E. (2015). Comparison of basal insulin regimens on glycemic variability in non-critically ill patients with type 2 diabetes, *Endocrine Practice* doi: <http://dx.doi.org/10.4158/EP14540.OR>.
97. Pasquel, F.J., Gomez-Huelgas, R., Anzola, I., Oyedokun, F., Haw, J. S., Vellanki, P., **Peng, L.**, and Umpierrez, G.E. (2015). Predictive value of admission hemoglobin A_{1c} on inpatient glycemic control and response to insulin therapy in medicine and surgery patients with Type 2 Diabetes. *Diabetes Care* DOI: 10.2337/dc15-1835.
98. Limoli, D. H., Maliniak, M. L., *Yang, J. Khansaheb, M.K., Helfman, B. **Peng, L.**, Stecenko, A.A., and Goldberg, J.B. (2016). Staphylococcus aureus and Pseudomonas aeruginosa co-infection is associated with cystic fibrosis-related diabetes and poor clinical outcomes. *European Journal of Clinical Microbiology & Infectious Diseases* 35, 947-953.
99. Vellanki, P., Smiley, D.D., Stefanovski, D., Anzola, I., Duan, W., Hudson, M., **Peng, L.**, Pasquel, F.J., Umpierrez, G.E. Randomized Controlled Study of Metformin and Sitagliptin on Long-Term Normoglycemia Remission in African American Patients With Hyperglycemic Crises. *Diabetes Care* 39 (11), 1948-1955.
100. Li, X., Wetherilts, C., Krishnamurti, U., *Yang, J., Ma, Y., Styblo, T., Meisel, J., **Peng, L.**, Siddiqui, M., Cohen, C., and Aneja, Ritu (2016). Stromal PD-L1 expression is associated with better disease free survival in triple negative breast cancer. *American Journal of Clinical Pathology* 146, 496-502.

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- 149.** Kaminski, C.Y., Galindo, R.J., Navarrete, J.E., Zabala, Z., Moazzami, B., Gerges, A., McCoy, R.G., Fayfman, M., Vellanki, P., Idrees, T. and Peng, L., Umpierrez, G.E. (2024). Assessment of Glycemic Control by Continuous Glucose Monitoring, Hemoglobin A1c, Fructosamine, and Glycated Albumin in Patients With End-Stage Kidney Disease and Burnt-Out Diabetes. *Diabetes care*, 47(2), pp.267-271.
- 150.** Horati, H., Margaroli, C., Chandler, J.D., Kilgore, M.B., Manai, B., Andrinopoulou, E.R., Peng, L., Gugliani, L., Tiddens, H.A., Caudri, D. and Scholte, B.J. (2024). Key inflammatory markers in bronchoalveolar lavage predict bronchiectasis progression in young children with CF. *Journal of Cystic Fibrosis*.
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- 152.** Galindo R, Moazzami B, Tuttle KR, Bergenstal RM, Peng L, Umpierrez G. (2024). Continuous glucose monitoring metrics and hemoglobin A1c relationship in patients with type 2 diabetes treated by hemodialysis. *Diabetes Technology and Therapeutics*. May 28(ja).

*: supervised PhD/MPH/MSPH student

Peer-Reviewed Book Chapters

- 153.** Peng, L., Jiang, H., Chappell, R., and Fine, J. P. (2008). An overview of semi-competing risks problems. *Statistical Advances in the Biomedical Sciences: Clinical Trials, Epidemiology, Survival Analysis and Bioinformatics*, Wiley.

154. Martinussen, T. and Peng, L. (2013). The additive hazard, accelerated failure time models and quantile regression. *Handbook of Survival Analysis* (Editors: Klein, J.P., van Houwelingen, H.C., Ibrahim, J.G., Scheike, T.H.) Chapman & Hall/CRC.
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Manuscripts Submitted or Under Revision

157. †Ma, H., Zhao, W., Hanfelt, J., #Peng, L. (2024). Dynamic regression of longitudinal trajectory features. *Journal of the American Statistical Association* (minor revision).
158. †Yu, Q. and #Peng, L. (2024). Time-In-Range analysis of functional data subject to missing with applications to inpatient continuous glucose monitoring (submitted).

†: The first author is a PhD student or Postdoc that completed the project under the direction of Dr. Peng; #: Dr. Peng serves as the corresponding author

GRANTS AND FUNDING

External Funding (Current)

PI: Peng, L., " Developing statistical analysis and prediction tools for continuous glucose monitoring (CGM) use in hospitalized patients with diabetes ". NIH/NIDDK (R01), 02/10/2024—01/31/2028, \$1,184,256 (30%).

MPI: Peng, L. (MPIs: Manatunga, A., Guo, Y., Peng, L.), "Statistical Methods for Analyzing Complex, Multi-dimensional Data from Cross-Section and Longitudinal Data", NIH/NIMH (R01), 07/16/2019 – 04/30/2024, \$3,070,305 (25%).

Co-Investigator: Peng, L. (PI: Hanfelt, J.), "Latent class methods to explore the heterogeneity of neurodegenerative diseases", NIH/NIA, 03/15/17-07/31/23, \$1,932,937 (15%).

Co-Investigator: Peng, L. (PI: Tirouvanziam, R.), "Multiscale detection of early CF disease: a multicenter longitudinal study", Cystic Fibrosis Foundation, 01/01/20-12/31/22, \$1,932,937 (10%).

Co-Investigator: Peng, L. (PI: Umpierrez, G.), "Effectiveness and Safety of the Dexcom G6 Continuous Glucose Monitoring System in Non-Critically Ill Patients in the Inpatient Seeting", DEXCIN INC, 07/01/21-06/31/31, \$319,890 (10%).

External Funding (Completed)

PI: Peng, L., "Method Development for Survival Dynamic Regression in Chronic Disease Research". NIH/NHLBI (R01), 07/01/2018—04/30/2024, \$1,552,783 (30%).

Co-Investigator: Peng, L. (PI: Li, N.), "Alzheimer's Disease Pathways and Biomarker Discovery by Integrative Proteomics", NIH/NIA, 08/15/18-06/30/23, \$3,232,393 (2.5%).

Co-Investigator: Peng, L. (PI: Tirouvanziam, R.), "Impact of the Resistin/Insulin/IGF1 Axis on CF Inflammatory Disease", Cystic Fibrosis Foundation, 04/01/15-03/31/18, \$94,600 (5%).

Co-Investigator: Peng, L. (PI: Tirouvanziam, R.), "Contribution of neutrophils to early airway disease in cystic fibrosis children", NIH (R01), 09/14/15—06/30/2019, \$264,900 (5%).

MPI: Peng, L. (MPIs: Manatunga, A., Guo, Y., Peng, L.), "Method Development of Agreement Measures and Applications in Mental Health," NIH/NIMH (R01), 10/01/2013 – 06/30/2018, \$250,000 direct/year (25%).

PI: Peng, L., "Method Development for Survival Dynamic Regression in Chronic Disease Research". NIH/NHLBI (R01), 08/06/2012—06/30/2018, \$200,000 direct/year (35%).

PI: Peng, L., "Quantile Regression with Time-to-Event Data," Division of Mathematical Sciences, NSF, 07/01/2007—12/30/2010, \$102,491 (16.7%).

PI: Peng, L., "Method Development for Censored Quantile Regression," Division of Mathematical Sciences, NSF, 08/01/2010—07/31/2014, \$99,989 (7.1%).

Co-Investigator: Peng, L. (PI: Manatunga, A.), "Method Development of Agreement Measures and Applications in Mental Health," NIH/NIMH, 04/01/2008 – 03/31/2013, \$826,200 (27%).

Co-Investigator: Peng, L. (PIs: Lyles, B. and Manatunga, A.), "Analytical Methods: Environmental/Reproductive Epidemiology", NIH/NIEH, 08/01/2003 – 06/30/2012, \$1,224,000 (13.5%).

Subcontract PI (PI: Pennell, P.), "Neuroactive Steroid and Seizure Control during Pregnancy in Women with Epilepsy", NIH (R03), 09/01/2009—08/31/2011, \$20,211 (5%).

Subcontract PI (PI: Lai, H.C.), "Newborn Screening, Malnutrition and Lung Disease in Children with Cystic Fibrosis", NIH, 09/01/2011—08/31/2016, \$20,211 (3%).

Co-Investigator: Peng, L. (PI: Umpierrez, G.E.), "A Randomized Controlled Study Comparing a DPP4 Inhibitor (Linagliptin) and Basal Insulin (Glargine) in Long-Term Care Residents with Type 2 Diabetes", 01/01/14-12/31/16, \$165,217 (15%).

Co-Investigator: Peng, L. (PI: Umpierrez, G.E.), "Free Fatty Acids Induced Hypertension and Endothelial Dysfunction in Obese Subjects," American Diabetes Association, 01/01/2008 – 12/31/2010, \$600,000, (10%).

Co-Investigator: Peng, L. (PI: Umpierrez, G.E.), "A Prospective, Randomized, Double-Blind Comparison of a Long-Acting Basal Insulin", 09/29/11-09/28/15, \$85,835 (10%).

Co-Investigator: Peng, L. (PI: Umpierrez, G.E.), “Randomized Study of Basal Bolus Insulin Therapy for the Management of Type”, 12/03/2007 – 12/31/2010, \$230,400, (5%).

Co-Investigator: Peng, L. (PI: Druss, B.), “Improving Primary Care of Patients with Mental Disorders”, NIH, 07/01/2004 – 12/31/2014, \$408,274, (5%)

Co-Investigator: Peng, L. (PI: Umpierrez, G.E.), “A Prospective, Randomized, Double-Blind Comparison of a Long-Acting Basal Insulin”, 09/29/11-09/28/15, \$85,835 (10%).

Emory University Funding

PI: Peng, L., “Flexible Regression Methods for Censored Survival Data,” Emory University Research Committee (URC) grant, 07/01/2007 – 06/30/2008, \$27,250.

PI: Peng, L., “Flexible Regression Methods for Censored Survival Data,” Atlanta-Clinical Translational Science Institute (A-CTSI) Grant, 07/01/2007 – 06/30/2008, \$5,000.

TEACHING AND MENTORING ACTIVITIES

Courses

Emory University

- Logistic Regression and Survival Analysis (BIOS 706) Fall 2006
- Advanced Seminar in Biostatistics (BIOS 790R & 590R) Spring 2007
- Survival Analysis Methods (BIOS 522) Fall 2007, 2009
- Quantile Regression (BIOS 760R) Fall 2009, Spring 2014
- Probability Theory II (BIOS 710) Fall 2011, 2013, 2014, 2015, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024

Invited Short Course/Tutorial

Tutorial on “Quantile Regression for Survival Analysis”, 2013 ENAR Spring Meeting, Baltimore, March 2013.

Short course on “Quantile Regression for Survival Analysis”, Centers for Disease Control and Prevention (CDC), Atlanta, August 2015.

Research Advising

Doctoral Dissertation Advisor for

- Ruosha Li, “Quantile Regression with Complex Survival Data” (Defended dissertation in June 2011).
- Shuang Ji, “Quantile regression for complex censored data” (Defended dissertation in July 2012).
- Xiaoyan Sun, “Flexible Semiparametric Regression Methods for Observational Follow-up Studies (Defended dissertation in July 2014).

- Jing Yang, “Flexible Association Methods for Bivariate Survival Data” (Dissertation defense in August 2016).
- Bo Wei, “New Statistical Methods for Complex Survival Analysis Problems” (Dissertation defense in July 2021).
- Teng Fei, “Latent Class Methods for Complex Chronic Disease Data” (Dissertation defense in July 2021).
- Ying Cui, “Flexible and Robust Methods for Evaluating Covariate Effects on Biomedical Outcomes” (Dissertation defense in April 2023).

Doctoral Dissertation Committee Member for

- Huichao Chen (2006), “Statistical Methods for Modeling Exposure and Reproductive Outcomes”.
- Jing Qian (2009), “Analysis of Outcomes with Induced Dependent Censoring: Medical Cost and Successive Durations”.
- Shulin Liu (2015), “Joint Modeling Approaches for Clustered Survival Data with Random Cluster Size”.
- Tian Dai (2016), “Agreement Methods for Complex Outcomes in Biomedical Studies”.
- Kylie Ainslie (2018). “Estimation of Influenza Vaccine Effectiveness from Observational Studies”.
- Jeong Hong Jang (2019), “Statistical Methods for Evaluating Continuous and Functional Diagnostic Markers”.
- Jay Soh (2019), “Nonparametric Regression for Assessing Time-Varying Effects in Survival Analysis”.
- Chi Wing Chu (2021), “Semiparametric Inference of Censored Data with Time-dependent Covariates”; Department of Statistics, Columbia University.
- Qi Yu (2024+), Dissertation proposal planned for April 2024.
- Yi Liu (2024+), Dissertation in progress

Master Thesis Advisor for

- Sebastian Perez (2009), “An Application of Quantile Regression to Exploring Determinants of PBB Decay Rates of Women in Michigan,” Charles Shepard Award finalist for the best thesis in the Rollins School of Public Health
- Juhee Lee (2010), “An Application of Competing Risks Quantile Regression to the Warfarin Aspirin Symptomatic Intracranial Disease (WASID) study”.
- Li Wei (2014), “Exploring Risk Factors for Vitamin D Deficiency in Cystic Fibrosis Patients and Generally Healthy Population”.
- Yi Wang (2015), “The Role of Vitamin D in the All-Cause Mortality of General Population”.
- Zixun Ye (2017), “Evaluating the Utility of Electroconvulsive Therapy Cognitive Assessment During and After Electroconvulsive Therapy”.
- Ishaan Dave (2017), “Comprehensive Analysis Examining Metabolites Associated with Severity of Cystic Fibrosis”.
- Yiran Zhang (2018), “Statistical Analysis for Validating and Improving the Staging System for Breast Cancer”.

- Alex Portelli (2018), “Relationship Between Airway Metabolites and Structural Damage in Young Children with Cystic Fibrosis”. Charles Shepard Award finalist for the best thesis in the Rollins School of Public Health.
- Jeffrey Chou (2019), “Discovery of Airway Fluid Proteins Associated with Progressive Lung Disease and Damage in Early Childhood Cystic Fibrosis”.
- Yi Guo (2019), “Studying the Association between Overall Survival and Metastatic Sites by Breast Cancer Subtypes Based on National Cancer Database”.
- Yuchen Zhang (2020), “Estimating Optimal Inpatient Treatment for Type 2 Diabetes”.
- Qing Zhang (2021), “The effect of breast cancer subtypes, race, and their interaction on breast cancer survival” (capstone project).
- Yuzhou Pan (2024), “Modeling and Statistical Analyses Probing the Heterogeneity in Individual Change Points in Longitudinal Cognitive Outcomes” (thesis).

Postdoc Supervisor for

- Qi Zheng (2013-2015). Current position: Assistant Professor, Department of Biostatistics, University of Louisville
- Huijuan Ma (2015-2018). Current position: Assistant Professor, School of Statistics, East China Normal University
- Shuwei Li (2019). Current position: Associate Professor, Guangzhou University
- Wei Zhao (2019-2021). Current position: Associate Professor, Shandong University
- Dayu Sun (2020-2023). Current position: Assistant Professor, Indiana University

Other Teaching and Mentoring Activities

- Panelist, National Institute of Statistical Science (NISS) Writing Workshop for Junior Researcher at Joint Statistical Meeting (JSM) (July 31, 2019)
- Invited speaker, National Institute of Statistical Science (NISS) Academic Virtual Meet-up on “Communication Skills for Statisticians” (Jan 29, 2019)

PROFESSIONAL ACTIVITIES

Membership

- American Statistical Association (ASA)
- Institutes of Mathematical Statistics (IMS)
- Eastern North American Region of International Biometric Society (ENAR)
- International Chinese Statistical Association (ICSA)

Grant Review

Study Section Member NHLBI Single-Site and Pilot Clinical Trials Review Committee (SSPT)	07/2020—06/2028
Study Section Member	07/2013—06/2019

Biostatistical Method and Research Design (BMRD), National Institute of Health (NIH)

Panelist

Launching Early-Career Academic Pathways in the Mathematical and Physical Sciences Panel (LEAPS), National Science Foundation (NSF) 2022

Statistics Panel Review Member 2021, 2022, 2024
Division of Mathematical Science, National Science Foundation (NSF)

Ad-hoc reviewer 2018, 2021
Review of the Biostatistics and Computational Biology Branch, NIEHS Division of Intramural Research Board of Scientific Counselors

Ad-hoc Grant reviewer 2018
Methodology, Measurement, and Statistics (MMS) Program
National Science Foundation

Grant reviewer 2011
United States-Israel Binational Science Foundation

Grant reviewer 2012, 2015
NSA Mathematical Sciences Grant Program

Grant reviewer, 2015
NSA-ASA grant program

Organizations/Committees

Appointed Member, Gertrude M. Cox Scholarship Committee, ASA 2008—2010
Appointed Chair, Organizing Committee of ENAR Junior Researcher Workshop 2012
Appointed Member, Organizing Committee of ENAR Junior Researcher Workshop 2010, 2013
Appointed Member, Regional Advisory Board (RAB) of ENAR, 2014—2017
Chapter Representative, Georgia Chapter of ASA 2008
Secretary, Georgia Chapter of ASA 2008—2009
Vice President, Georgia Chapter of ASA 2009—2014
Treasurer, Section of Nonparametric Statistics, ASA 2018—2019
Secretary, Section of Nonparametric Statistics, ASA 2019—2020
Invited Member, Program Committee, ICSA 2019 International Conference 2018—2019
Chair, Spiegelman Award Committee, Applied Public Health Statistics Section, American Public Health Association 2019—2020
Member, COPSS Distinguished Achievement Award and Lectureship Award Committee, American Statistical Association 2022—2023,
2024—2025
Chair, COPSS Distinguished Achievement Award and Lectureship Award Committee, American Statistical Association 2023—2024

Conference Activities

Organizer of the Invited Session, titled “Recent Advances in Regression Modeling of Survival Data”, ENAR Spring Meeting, March 2007, Atlanta GA.

Organizer of the Invited Session, titled “Recent Advances in Survival Analysis with Complex Biomedical Data”, ICSA Applied Statistics Symposium, June 2007, Raleigh NC.

Special Award Judge for American Statistical Association, Intel International Science and Engineering Fair, May 2008, Atlanta GA.

Organizer of the Invited Session, titled “Recent Development of Quantile Regression Methods for Survival Data”, ENAR Spring Meeting, March 2009, San Antonio TX.

Chair of the Invited Session, titled “Competing Risks in Action”, ENAR Spring Meeting, March 2009, San Antonio TX.

Organizer of the Invited Session, titled “New Method Development in Survival Analysis”, ICSA Applied Statistics Symposium, June 2015, Fort Collins, Colorado.

Member of Short Course Committee, ICSA Applied Statistics Symposium, June 2016, Atlanta, GA

Organizer of the Invited Session, titled “Recent Method Developments on Quantile Regression”, 2019 ICSA China Conference, July 2019, Tianjin, China.

Member of Student Paper Award Committee, 2019 Conference on Lifetime Data Science: Foundations and Frontiers, May 2019, Pittsburgh, PA, USA.

Organizer of the Invited Session, titled “Innovative Method Development for Complex Survival Problems”, ICSA 2019 International Conference, December 20-22, 2019, Zhejiang University, Hangzhou, China.

Organizer of the Invited Session, titled “Advancement of Quantile Regression Methodology for Complex Data”, ICSA 2019 International Conference, December 20-22, 2019, Zhejiang University, Hangzhou, China.

Organizer of the Topic Contributed Session, titled “Advanced Survival Analysis Tools for Statistical Learning from Complex Scientific Studies”, Joint Statistics Meeting, August 2—6, 2020, Virtual Meeting.

Chair of the Organizing Committee, 2022 Georgia Statistics Day, Emory University, Atlanta, GA October 11, 2022.

EDITORIAL ACTIVITIES

Associate Editor, Biometrics, 07/2013-present

Associate Editor, *Statistica Sinica*, 07/2023-present

Associate Editor, *Journal of American of Statistical Association*, 2013-2018

Co-Book Editor: *Handbook of Quantile Regression*

Referee for: *American Journal of Epidemiology*, *Annals of Epidemiology*, *Annals of Statistics*, *Australian & New Zealand Journal of Statistics*, *Bernoulli Journal*, *Biometrics*, *Biostatistics*, *Biometrika*, *BMJ Open*, *BMJ Open Diabetes Research & Care*, *The Canadian Journal of Statistics*, *China Economic Review*, *Circulation*, *Computational Statistics and Data Analysis*, *Endocrine Practice*, *Journal of the American Statistical Association*, *Journal of Computational and Graphical Statistics*, *Journal of Nonparametric Statistics*, *Journal of Royal Statistical Society, Series A*, *Journal of Royal Statistical Society, Series B*, *Journal of Statistical Planning and Inference*, *Lifetime Data Analysis*, *Scandinavian Journal of Statistics*, *Science CHINA Mathematics*, *Statistics and Probability Letters*, *Statistics in Medicine*, *Statistica Sinica*, *TEST*, *WIREs Computational Statistics*

ACADEMIC SERVICE

Department of Biostatistics and Bioinformatics, Emory University

Chair, Admission Committee (2014—2015, 2015—2016)

Co-chair, Biostatistics Strategic Plan Committee Regarding Doctoral Student Funding (2007—2008)

Member, Admission Committee (2005—2006, 2008—2009, 2009—2010, 2000—2011, 2013—2014, 2017—2018, 2018—2019, 2019—2020, 2020—2021, 2021—2022, 2022—2023, 2023—2024)

Member, Computer Advisory Committee (2006—2013)

Member, Curriculum Committee (2006—2010, 2021—2022)

Member, Faculty Retreat Planning Committee (2006—2007)

Member, Faculty Search Committee (2009—2010, 2013—2014, 2015—2016)

Co-Chair, Faculty Search Committee (2018—2019)

Member, Qualifying Exam Committee (2010—2015, 2017—2018)

Chair, Qualifying Exam Committee (2018—2019, 2019—2020, 2020—2021, 2021—2022, 2022—2023, 2023—2024)

Rollins School of Public Health, Emory University

Search committee for Chair of Biostatistics and Bioinformatics 2017—2018

Department representative, Faculty Council 2013—2016

At-large member, Appointments, Promotion and Tenure (APT) Committee 2018—2021

Reviewer, Center for the AIDS Research (CFAR) Grant Application Review Board, 2009A cycle

Emory University

Member, Woodruff Fellowship Selection Committee 2008

Director of Graduate Studies for Biostatistics, Laney Graduate School, Emory University
Nov 2014—2016