

# Jong-Hyeon Jeong

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## General Information

Mathematical Statistician  
Biometric Research Program, Division of Cancer Treatment & Diagnosis  
National Cancer Institute, National Institutes of Health  
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## Education

Ph.D. Statistics, University of Rochester, Rochester, NY, 1996  
*Thesis Title:* New applications of frailty model in survival analysis  
*Thesis Advisor:* David Oakes  
M. A. Statistics, University of Rochester, Rochester, NY, 1991

## Research Interests

Causal Inference, Clinical Trials, Deep Learning, Empirical Processes, Machine Learning, Mixed Models, Prediction Modeling, Survival Analysis

## Professional Appointments

07/30/2023 – date

Mathematical Statistician, Biometric Research Program, Division of Cancer Treatment & Diagnosis, NIH/NCI

- Working on translational research and biomarker studies, including biomarker protocol review, statistical advising and consulting, particularly with the Cancer Diagnosis Program (CDP) and the Cancer Therapy Evaluation Program (CTEP).

08/01/1998 – 07/29/2023

Senior Statistician, National Surgical Adjuvant Breast and Bowel Project (NSABP)/NRG Oncology

- As a lead statistician for one of the National Cancer Institute (NCI) Cooperative Groups, I oversaw form development, study design, data management, study monitoring, data and safety monitoring board (DSMB) reporting, data analysis and publications.
  - Led development of statistical design and analysis plans for several NSABP trials on early-stage breast cancer patients, such as NSABP B-30 (chemotherapy), B-33 (hormonal therapy), B-42 (hormonal therapy), B-46 (chemotherapy), B-47 (chemo+hormonal therapy), and B-49 (chemotherapy) including selection of appropriate study designs to address the scientific objectives of those trials, determination of necessary trial size, analysis of the trial data after study completion, and dissemination of trial results through published manuscripts.
  - Served on DSMBs for NSABP B-30, B-33, B-42, B-46, B-47, and B-49 studies for 5-7 years per study, evaluating toxicity reports for patients enrolled on trials and contributing to decision-making regarding trial continuation or closure.
- As a mathematical statistician, I developed new mathematical, statistical, and applied methods to efficiently analyze the data from clinical trials on breast cancer.
  - Developed flexible statistical models to account for potential bias due to ignoring related events that might occur to the same cancer patient.
  - Developed new models that can associate risk factors with the median of the residual lifetimes among the patients in the study cohort, accounting for the possibility of events for some cancer patients not being observed.
  - Bridging traditional mathematical/statistical modeling techniques with contemporary machine learning and causal inference methods to improve accuracy and efficiency of the estimates.
- I have compared and modified or/and improved existing methods for statistical analysis to facilitate more efficient communication stakeholders such as statisticians, physicians, and patients, and published papers on clinical trials and statistical methodology.
  - Modified/Improved an existing exploratory smoothing technique to evaluate an interaction between treatment effect and hormonal receptor level among breast cancer patients with positive estrogen receptors and positive progesterone receptors.

08/01/1998 – 08/31/2007

Assistant Professor, Department of Biostatistics

Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA

09/01/2007 – 08/31/2013

Associate Professor, Department of Biostatistics

Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA

09/01/2013 – 2023

Professor, Department of Biostatistics

- I have directed multiple thesis committees for my MS and PhD students to develop new methodologies and techniques in mathematical and applied statistics applicable to the design and analysis of biomedical research studies.
  - Graduated 6 MS and 12 PhD students who found their positions all over in academia, government, and industries. Currently advising 1 PhD student.
  - PhD students selected for prestigious awards for presentations at the national and international meetings.
- I have led multiple groups of (bio)statisticians in the collaboration settings in pediatrics, patient-centered outcomes research, and pain medicine.
  - Directed Data Management and Statistical Unit (DMSU) for the Division of General Academic Pediatrics (GAP), working on two randomized clinical trials on ear infection. Recently consulted on development of a feature-based diagnosis learning algorithm using a recurrent neural network (RNN) to diagnose acute otitis media with the input of tympanic membrane images.
  - Participated in the projects from the Division of Pain Medicine to develop prediction models for optimal pain treatment by using machine learning methods. Also involved in a medical marijuana project to identify important predictors for potential causal effects on multiple pain outcomes.

09/01/2013 – 2023

Professor, Clinical and Translational Sciences Institute (CTSI)

School of Medicine, University of Pittsburgh, Pittsburgh, PA

- Collaborating with numerous investigators from various research areas such as cancer, microbiome, and other types of high-dimensional data, I have provided statistical guidance in formulation of scientific hypothesis, study design, data analysis, interpretation of the results, and publishing manuscripts.

- I have provided the investigators with technical assistance in mathematical statistics and review their grant proposals for improvement in the area of neuroendocrinology, pediatrics, ophthalmology, medicine, computational biology, and orthopedics.

01/01/2021—2023

Lead Statistician, PCORnet PaTH Clinical Research Network

- As a lead statistician and a steering committee member, I oversaw data query process prepared by the medical informatics group, participate in the collaborative meetings with internal and external investigators in the network.
- I oversaw the publication process of analyzing the biomedical data, summarizing the analysis results, writing the mathematical and statistical method section, reviewing the scientific aspects of the study, and submitting the manuscripts to scientific journals/meetings.

06/01/2016-08/31/2017

07/01/2020 – 08/31/2022

Interim Chair, Department of Biostatistics

- I have successfully led a group of 20-25 faculty members and 5-6 staff members in the department as an interim chair.
  - Facilitated recruiting and promoting several outstanding faculty members over the years.
  - Initiated a multi-disciplinary collaborative effort involving biostatistics, computer science, computational biology, medical informatics, human genetics and epidemiology to develop an education program.

## Professional Society Membership

2021	Statistician of the Year Award, American Statistical Association (ASA) Pittsburgh Chapter
2017 – date	<i>Fellow</i> , American Statistical Association (ASA) <b>Citation:</b> For outstanding research in competing risks, residual life, and survival analysis, for collaborative contributions to clinical trials on breast cancer, and for leadership and service to the profession
2007 – date	<i>Elected Member</i> , International Statistical Institute (ISI)
2013 – date	<i>Elected Member</i> , Omicron of the Delta Omega Society (Honorary Public Health Society)
2015 – 2022	<i>Elected Member</i> , Board of Directors, Korean International Statistical Society (KISS), a sister society to American Statistical Association (ASA)
1994 – date	Member, American Statistical Association (ASA)

1996 – date Member, The International Biometric Society/Eastern North American Region (ENAR)

## Professional Society Editorship

2015 – 2018 *Associate Editor*, Journal of Statistical Research  
 2016 – date *Associate Editor*, Lifetime Data Analysis  
 2017 – 2019 *Editorial Board Member*, Scientific Reports  
 2023 -- date *Co-Editor*, Communications for Statistical Applications and Methods (CSAM)

## Scientific Advisory Positions

2012 – 2014 Member, Committee on Career Development, American Statistical Association  
 2011 – 2013 Member, Special Emphasis Panel, Clinical Assay Development Program, National Cancer Institute  
 2011 – date Member, Institutional Data and Safety Monitoring Board, University of Pittsburgh  
 2011 – date Member, Data Safety and Monitoring Committee and Data Quality and Auditing Committee, International Evaluation of Radiotherapy Technology in Cervical Cancer, University of California – San Diego  
 2009 – 2014 Member, National Surgical Adjuvant Breast and Bowel Project (NSABP) B-49 Steering Committee  
 2014 – 2017 Member, Steering Committee for TARGET Trial to Prevent Chronic Low Back Pain  
 2021 – date Member, Steering Committee for PCORnet PaTH network

## Professional Service

2019–2022 University Faculty Assembly/Senate (elected member)  
 2019–2022 University Senate Computer and Information Technology Committee (elected member)  
 2015 – 2019 Chair, Faculty Recruitment Committee  
 2014 – 2015 Chair, PhD Qualifying Exam Committee  
 2013 – 2016 Chair, Faculty Recruitment Committee  
 2011 Group Leader for PhD Program Session, Departmental Strategic Planning Meeting  
 2012 – 2013 Chair, Curriculum Committee (PhD and MS combined)  
 2011 – 2012 Chair, Doctoral Curriculum Committee  
 2010 Chair, PhD Exam Working Group Committee  
 2010 Chair, Departmental Curriculum Evaluation Committee  
 2009 –2014 Appointed Member, School-wide Faculty Diversity Committee  
 2008 Appointed Member, Search Committee for Director for University of Pittsburgh Cancer Institute (UPCI) Biostatistics Unit

- 2006 Appointed Member, Statistical Innovations Committee
- 2006 – 2001 Appointed Member, M.S. Program (Working) Committee
- 2006 – 2010 Appointed Member, Doctoral Student Monitoring Committee
- 2002, 2005 Appointed Member, GSPH school marketing committee
- 2000 – 2003 Appointed Member, Judge for the student presentations (poster and oral) for school-wide Dean's day events
- 1998 – 2009 Appointed Member, Admissions and Student Performance Committee (ASPC)

## Invited Lectureships and Seminars

- Mar., 2001 "On the asymptotic relative efficiency of estimates from Cox's model",  
Department of Statistics, University of Pittsburgh
- Sep., 2005 "Nonparametric two-sample test for comparing median residual lifetimes",  
Department of Biostatistics, SUNY-Buffalo
- Mar., 2007 "Statistical analysis in cancer clinical trials", SWITCH Forum organized by Pfizer at  
Early Breast Cancer Symposium, St. Gallen, Switzerland
- Aug., 2007 "Statistical methods to analyze breast cancer data", Department of Statistics,  
Korea University, Seoul, Korea
- Aug., 2007 "Statistical methods to analyze breast cancer data", Department of Statistics,  
Seoul National University, Seoul, Korea
- Mar, 2008 "Parametric inference on cumulative incidence function", In "Recent Advances in  
the Modeling of Competing Risks Data", International Biometric Society East  
Northern American Region (ENAR)
- Jul., 2009 "Regression on quantile residual life", In "Recent Development in Survival  
Analysis", The 1st Institute of Mathematical Statistics (IMS) Asia Pacific Rim  
Meeting, Seoul, Korea
- Jul., 2009 "Phase III clinical trials on breast cancer: NSABP experience International  
Symposium on Statistical Applications in Clinical Trials", International Biometric  
Society, Korean Region, Seoul, Korea
- Mar., 2010 "Inference on quantile residual life under competing risks", In "Competing  
Risks in Action", International Biometric Society East Northern American Region  
(ENAR)
- April, 2010 "Inference on residual life under dependent censoring", Department of  
Statistics, University of Kentucky
- May, 2010 "Application of quantile residual life in medical data, WebEx seminar",  
Department of Radiation Oncology, University of California, San-Diego
- June, 2010 "Bivariate analysis of competing risks data", Annual Meeting of Chinese  
Statistical Association, Indianapolis, IN
- Jul., 2010 "An alternative summary measure for time-to-event data: residual life?"  
FDA/Industry Workshop, Washington, D.C.

- Feb., 2011 "Inference on quantile residual life under competing risks", Department of Biostatistics, Yale University
- Aug., 2011 "Cause-specific quantile residual life regression", Joint Statistical Meeting, Miami, FL.
- Aug., 2011 "Clinical trials on breast cancer", Haany Medical University, Daegu, Korea
- March, 2012 "Residual life: A useful summary measure for survival data?", Department of Biostatistics and Bioinformatics, University of California-San Diego
- April, 2012 "Quantile residual life for subdistribution", Department of Biostatistics, University of Pittsburgh
- June, 2012 "Quantile residual life under dependent censoring", Department of Statistics, Seoul National University, South Korea
- August, 2012 "Censored quantile regression for residual lifetimes: empirical likelihood approach", Joint Statistical Meetings, San Diego, CA
- August, 2013 "Hierarchical likelihood inference on clustered competing risks data", Joint meeting of the IASC Satellite and the 8th IASC-ARS Conference, Seoul, Korea
- August, 2013 "Statistical inference on residual life" (2 hour lecture), SRC Symposium, Department of Statistics, Seoul National University, Seoul, Korea
- June, 2014 "Quantile residual life", Annual Meeting of Chinese Statistical Association, Oregon, Portland
- June, 2015 "Statistical inference on quantile residual life", Annual Meeting of Chinese Statistical Association, Fort Collins, Colorado
- Aug, 2016 "Recent development in residual life inference", Joint Statistical Meetings, Chicago, IL
- Oct., 2016 "Nonparametric inference on life lost", Department of Statistics, Virginia Tech
- May., 2017 "Statistical inference on life lost", Lifetime Data Science Conference, University of Connecticut
- Aug., 2017 "Semiparametric regression on life lost", Joint Statistical Meetings (JSM), Baltimore, MD
- Jun., 2019 "Nonparametric inference on the win ratio for clustered semicompeting risks data", Lifetime Data Science Conference, Pittsburgh, PA
- Aug., 2019 Discussant for the session "New innovations and challenges in HGLMs and H-likelihood", Joint Statistical Meetings, Denver, Colorado.
- Sep., 2019 "Statistical inference on quantile inactivity time", University of Maryland-Baltimore County (UMBC), MD
- Oct., 2020 "Nonparameric and semiparametric inference on quantile inactivity time", Department of Biostatistics and Medical Bioinformatics, University of Wisconsin-Madison
- Nov., 2020 "The win ratio approach to composite endpoints", Society for Clinical Trials
- Aug., 2022 Discussant in Session titled "Recent Advances in Clustered Time-to-Event Data", Joint Statistical Meetings, Washington, D.C.

- Dec., 2022 “Causal Deep Learning for Estimating Individual Treatment Effect in Censored Survival Data”, Department of Biostatistics and Data Science, The University of Texas Health Science Center at Houston
- Aug., 2023 “Quantile Regression for Censored Survival Data using Deep Learning” (Invited Session titled “Emerging lifetime data analysis methods based on non-conventional survival models”), Toronto, Canada

## Books and Book Chapters

1. **Jeong, J** and Manatunga, A. (Co-editors). (2022). *Special issue dedicated to David Oakes. Lifetime Data Analysis* **28**, 543–545.
2. **Jeong, J.** (2014). *Statistical Inference on Residual Life*. New York: Springer.
3. Ha I., **Jeong, J.**, Lee, Y. (2017). *Statistical Modelling of Survival Data with Random Effects: H-likelihood Approach*. Springer.
4. Redmond C. K. and **Jeong, J.** “Design, Implementation, and interpretation of Clinical Trials” In *Management of Breast Diseases*. Jatoi I. and Kaufmann M. (Editors), 2<sup>nd</sup> Edition, Springer, 2016.

## Peer-Reviewed Publications

### Methodology Papers

\* Indicates papers with students

1. Oakes, D. and **Jeong, J.** (1998). Frailty models and rank tests. *Lifetime Data Analysis* **4**, 209-228.
2. **Jeong, J.** (2001). A note on asymptotic efficiency of a regression coefficient parameter under ordinal logistic regression model. *Communications in Statistics: Theory and Methods* **30**, 1257-1269.
3. **Jeong, J.**, Jung, S. and Wieand, S. (2003). A parametric modeling of long-term follow-up data from phase III breast cancer clinical trials. *Statistics in Medicine* **22**, 339-352.
4. Jung, S. and **Jeong, J.** (2003). Rank tests for clustered survival data. *Lifetime Data Analysis* **9**, 19-31.
5. **Jeong, J.** and Oakes, D. (2003). On the asymptotic relative efficiency of estimates from Cox’s model. *Sankhya* **65**, 411-421.
6. **Jeong, J.** (2003). Efficiency of log-rank test under dependent censorship. *Communications in Statistics: Theory and Methods* **32**, 1197-1211.
7. **Jeong, J.** and Oakes, D. (2005). Effects of different hazard ratios on asymptotic relative efficiency of estimates from Cox’s model. *Communications in Statistics Theory and Methods* **34**, 429.
8. **Jeong, J.** and Jung, S. (2006). Rank tests for clustered survival data when dependent subunits are randomized. *Statistics in Medicine* **25**, 361-373.



9. **Jeong, J.** and Fine, J. (2006). Direct parametric inference for cumulative incidence function. *Journal of the Royal Statistical Society-Series C (Applied Statistics)* 55, 187-200.
10. **Jeong, J.** (2006). A new parametric distribution for modeling cumulative incidence function: Application to breast cancer data. *Journal of the Royal Statistical Society - Series A (Statistics in Society)* 169, 289-303.
11. **Jeong, J.** and Costantino, J. P. (2006). Application of smoothing methods to evaluate treatment-prognostic factor interactions in breast cancer data. *Cancer Investigation* 24, 288-293.
12. **Jeong, J.** and Fine, J. (2007). Parametric regression on cumulative incidence function. *Biostatistics* 8, 184-196.
13. **Jeong, J.,** Jung, S, and Joseph Costantino. (2008). Nonparametric inference on median residual lifetimes in breast cancer patients. *Biometrics* 64, 157-163.
14. **Jeong, J.** (2008). Statistical analysis in cancer clinical trials. *Anti-Cancer Drugs* 19 Supplement 1:S9-S10.
15. **Jeong, J.** and Lee, S. (2009). A note on the asymptotic relative efficiency of estimators from the additive hazards model. *Journal of Statistical Planning and Inference* 139, 4242-4250.
16. Jung, S., **Jeong, J.,** and Bandos, H. (2009). Regression on quantile residual life. *Biometrics* 65, 1203-1212.
17. **Jeong, J.** and Fine, J.P. (2009). A note on quantile residual life under competing risks. *Biometrika* 96, 237-242.
18. Wahed, AS, Luong TM, and **Jeong, J.** (2009). A new generalization of Weibull distribution with application to a breast cancer data set. *Statistics in Medicine* 28, 2077-94.
19. Choi, B.-Y., Kim, H., Go, U.-Y., **Jeong, J.,** and Lee, J.W. (2010). Comparison of various statistical methods for detecting disease outbreaks. *Computational Statistics* 25, 603-617.
20. Zhou, M. and **Jeong, J.** (2011). Empirical likelihood ratio test for median and mean residual lifetime. *Statistics in Medicine* 30, 152-159.
21. Fan, C., Fine, J.P., and **Jeong, J.** (2012). Optimal inferences for proportional hazards model with parametric covariate transformations. *Annals of the Institute of Statistical Mathematics* 64, 715-736.
22. \*Tang, S. and **Jeong, J.** (2012). Median tests for censored survival data; a contingency table approach. *Biometrics* 68, 983-989.
23. Kim, M.-O., Zhou, M., and **Jeong, J.** (2012). Censored quantile regression for residual lifetimes. *Lifetime Data Analysis* 18,177-94.
24. Park, T., **Jeong, J.,** and Lee, J. (2012). Nonparametric Bayesian inference on quantile residual life function. *Statistics in Medicine* 31, 1972–1985.
25. \*Xu, Q. Christian, N., and **Jeong, J.** (2012). Maximum likelihood estimation of optimal weight function for weighted log-rank test. *Journal of Statistical Research* 46, 219-232.
26. Jeong, J. and Fine, JP. (2013). Nonparametric inference on cause specific quantile residual life. *Biometrical Journal* 55, 68-81.

27. Shi, H., Cheng, Y. and **Jeong, J.** (2013). Constrained parametric regression on cumulative incidence functions. *Biometrical Journal* 55, 82-96.
28. Ha, I., \*Christian, N., **Jeong, J.**, Park, J., and Lee, Y. (2014). Analysis of clustered competing risks data using subdistribution hazard models with multivariate frailties. *Statistical Methods in Medical Research*, DOI: 10.1177/0962280214526193.
29. Ha, I., Lee, M., Oh, S., **Jeong, J.** et al. (2014) Variable selection in subdistribution hazard frailty models with competing risks data. *Statistics in Medicine* 33(26), 4590–4604, DOI: 10.1002/sim.6257.
30. \*Christian, N., Il Do Ha, and **Jeong, J.** (2016). Hierarchical likelihood inference on clustered competing risks data. *Statistics in Medicine* 35(2), 251–267, DOI: 10.1002/sim.6628.
31. \*Haile, S. R., **Jeong, J.**, Chen, X., and Cheng, Y. (2016). A 3-parameter Gompertz distribution for survival data with competing risks, with an application to breast cancer data. *Journal of Applied Statistics*. DOI:10.1080/02664763.2015.1134450.
32. \*Lim, J-Y and **Jeong, J.** (2015). Cause-specific quantile residual life regression. *Statistical Methods in Medical Research*. DOI: 10.1177/0962280215592426.
33. \*Balmert, L. and **Jeong, J.** (2016). Nonparametric inference on quantile lost lifespan. *Biometrics* 73:252-259. DOI: 10.1111/biom.12555.
34. \*Tang, S., **Jeong, J.**, and Song, C. (2017). Fractional logistic regression for censored survival data. *Journal of Statistical Research* 51:101-114.
35. **Jeong, J.** (2018). Domain of inverse double arcsine transformation. *arXiv:1811.07827*.
36. Ha, I., Xiang, L., Peng, M., **Jeong, J.**, and Lee, Y. (2020). Frailty modelling approaches for semi-competing risks data. *Lifetime Data Analysis* 26:109–133.
37. \*Lopa, S. and **Jeong, J.** (2020). Inference on quantile residual life for length-biased survival. *Journal of Statistical Research* 54:65-82.
38. \*Balmert, L., Li, R., Peng, L., and **Jeong, J.** (2021). Quantile regression on inactivity time. *Statistical Methods in Medical Statistics* 30:1332-1346. DOI:10.1177/0962280221995977.
39. \*Jia, Y. and **Jeong, J.** (2021). Cause-specific quantile regression on life lost. *Statistics in Medicine* 40:1811-1824. DOI: 10.1002/sim.8871.
40. \*Di, Z. and **Jeong, J.** (2021). Inference on the win ratio for cluster-randomized semi-competing risk data. *Japanese Journal of Statistics and Data Science*. <https://doi.org/10.1007/s42081-021-00131-1>.
41. \*Jia, Y. and **Jeong, J.** (2021). Deep learning for quantile regression: DeepQuantreg. arXiv.2007.07056. *Journal of Computational and Graphical Statistics*. <https://doi.org/10.1016/j.csda.2021.107323>.
42. Pearce, T., **Jeong, J.**, Jia, Y., and Zhu, J. (2022). Censored quantile regression neural networks. *NeurIPS 2022*. Accepted (Selected for oral presentation).

## Collaborative Papers

43. Fisher, B., **Jeong, J.**, Dignam, J., Anderson, S., Mamounas, E. P., Wickerham, L., and Wolmark, N. (2001). Findings from recent national surgical adjuvant breast and bowel project adjuvant studies in stage one breast cancer. *Journal of the National Cancer Institute Monographs*, 62-66.
44. Fisher, B, **Jeong, J.**, Anderson, S. Bryant, J., Fisher, E., and Wolmark Norman. (2002). Twenty-five year findings from a randomized clinical trial comparing radical mastectomy with total mastectomy and with total mastectomy followed by radiation therapy. *New England Journal of Medicine* vol. 347, 8, 567-575.
45. Kunkel, M., Reichert, T.E., Benz, P., Lehr, H.-A., **Jeong, J.**, Wieand, S., Bartenstein, P., Wagner, W., and Whiteside, T.L. (2003). Overexpression of Glut-1 and increased glucose metabolism in the tumor are associated with poor prognosis in oral squamous cell carcinoma. *Cancer* 97, 4, 1015-1024.
46. Fisher, B., Anderson, S., Bryant, B., Margolese, R.G., Deutsch, M., Fisher, E.R, **Jeong, J.**, and Wolmark, N. (2002). Twenty-Year follow up of a randomized trial comparing total mastectomy, lumpectomy, and lumpectomy with irradiation in the treatment of invasive breast cancer. *New England Journal of Medicine* 347, 16, 1233-1241.
47. Kunkel, M., Forster, G. J., Reichert, T. E., **Jeong, J.**, Benz, P., Bartenstein, P., Wagner, W., and Whiteside, TL. (2003). Detection of recurrence oral squamous cell carcinoma by {F}FDG-PET: Implications for clinical management and patients survival. *Cancer* 98, 10, 2257-2265.
48. Taghian, A., **Jeong, J.**, Anderson, S., Bryant, J., and Mamounas, T. (2004). Pattern of loco-regional failure in patients with breast cancer treated by mastectomy and chemotherapy (+/- tamoxifen) without radiation: results from five NSABP randomized trials. *Journal of Clinical Oncology* 22, 21, 4247-4254.
49. Fisher, B., **Jeong, J.**, Bryant, J., Mamounas, E.P., Dignam, J., and Wolmark, N. (2004). Treatment of lymph node-negative, estrogen receptor-positive breast cancer: long-term findings from National Surgical Adjuvant Breast and Bowel Project clinical trials. *Lancet* 364, 858-868.
50. Fisher, B, **Jeong, J.**, Anderson, S., et al. (2004). Treatment of lymph node-negative, estrogen receptor-negative breast cancer: Long-term findings from National Surgical Adjuvant Breast and Bowel Project clinical trials. *Journal of the National Cancer Institute* 96, 1823-1831.
51. Kunkel, M., Helisch, A., Reichert, T. E., **Jeong, J.**, et al. (2006). Clinical and Prognostic value of [18F]FDG-PET for surveillance of oral squamous cell carcinoma after surgical salvage therapy. *Oral Oncology* 42, 297-305.
52. Wapnir, I., Anderson, S., Mamounas, E., Geyer, C.E., Jr., **Jeong, J.**, Fisher, B., Wolmark, N. (2006). Survival after IBTR in NSABP Node Negative Protocols B-13, B-14, B-19, B-20 and B-23. *Journal of Clinical Oncology* 24, 2028-2037.

53. Taghian, A., **Jeong, J.**, Mamounas, E., Parada, D.M., Deutsch, M., Costantino, J.P., and Wolmark, N. (2006). Low loco-regional recurrence rate among node negative breast cancer patients with tumor size 5cm and larger treated by mastectomy with or without adjuvant systemic therapy and without radiotherapy: results from five National Surgical Adjuvant Breast and Bowel Project randomized clinical trials. *Journal of Clinical Oncology* 24, 3937-3932.
54. Kunkel, M., Moergel, M, Stockinger, M., **Jeong, J.** et al. (2007). Overexpression of Glut-1 is associated with resistance to radiotherapy and adverse prognosis in squamous cell carcinoma of the oral cavity. *Oral Oncology* 43, 796-803.
55. Mamounas, EP, Lembersky, B., **Jeong, J.** et al. (2006). NSABP B-42: A clinical trial to determine the efficacy of five years of letrozole compared with placebo in patients completing five years of hormonal therapy consisting of an aromatase inhibitor (AI) or tamoxifen followed by an AI in prolonging disease-free survival in postmenopausal women with hormone receptor-positive breast cancer. *Clinical Breast cancer* 7, 416-421.
56. Mamounas, E.P., **Jeong, J.**, Wickerham, L. et al. (2008). Benefit from exemestane as extended Adjuvant therapy after five years of tamoxifen: results from the NSABP B-33 trial. *Journal of Clinical Oncology* 26, 1965-1971.
57. Anderson, S., Wapnir I., Dignam J., Fisher B., Mamounas, T., **Jeong, J.**, et al. (2009). Prognosis after IBTR and locoregional recurrences in patients treated by breast conserving surgery in five NSABP node-negative protocols. *Journal of Clinical Oncology* 27, 2466-73.
58. Pusztai, L., **Jeong, J.**, Gong, Y., et al. (2009). Evaluation of Microtubule Associated Protein-Tau expression as prognostic and predictive marker in the NSABP-B 28 randomized clinical trial. *Journal of Clinical Oncology* 27, 4287-92.
59. Swain SM, **Jeong J.**, Geyer CE Jr., Costantino JP, Pajon ER, Fehrenbacher L, Atkins JN, Polikoff J, Vogel VG, Erban JK, Rastogi P, Livingston RB, Perez EA, Mamounas EP, Land SR, Ganz PA, and Wolmark N. (2010). Longer duration of treatment and chemotherapy-induced amenorrhea are associated with improved survival in early breast cancer. *New England Journal of Medicine* 362, 2053-65.
60. Mell, L.K., **Jeong, J.**, Nichols, M.A. et al. (2010). A risk score for competing mortality in stage I-II breast cancer. *Cancer*, 116:5365-5373.
61. Yang, S.X., Costantino, J.P., Kim, C., Mamounas, E.P., Nguyen, D., **Jeong, J.** et al. (2010). Akt Phosphorylation at Ser473 predicts benefit to Paclitaxel chemotherapy in node-positive breast cancer. *Journal of Clinical Oncology* 28:2974-2981.
62. Mell, L. and **Jeong, J.** (2010). Pitfalls of using composite primary end points in the presence of competing risks. *Journal of Clinical Oncology* 28:4297-4299.
63. Swain, S., **Jeong, J.**, and Wolmark, N. (2010). Amenorrhea from breast cancer therapy- Not a matter of dose. *New England Journal of Medicine* 363:2268-2270.
64. Jatoi, I., Anderson, W.F., **Jeong, J.**, and Redmond, C. (2011). Breast Cancer Adjuvant Therapy: Time to Consider its Time-Dependent Effects? *Journal of Clinical Oncology* 29(17) :2301-4.

65. Perez, E., Romond, E., Suman, V, **Jeong, J.** et al. (2011). 4-year follow-up of trastuzumab plus adjuvant chemotherapy for operable HER2-positive breast cancer: Joint analysis of data from NCCTG N9831 and NSABP B-31. *Journal of Clinical Oncology* 29 : 3366-3373.
66. Rose, B.S., **Jeong, J.**, Nath, S.K. et al. (2011). Population-based study of competing mortality in head and neck cancer, *Journal of Clinical Oncology* 29 :3503-3509.
67. Farrell, T. C., Cario, C. L., Milanese, C., Vogt, A., **Jeong, J.**, Burton, E. A. (2011). Evaluation of spontaneous propulsive movement as a screening tool to detect rescue of Parkinsonism phenotypes in zebrafish models. *Neurobiology of Disease* 44(1):9-18.
68. Jatoi, I., Anderson, W.F., **Jeong, J.**, and Redmond, C. (2011). Reply to J.J. Dignam. *Journal of Clinical Oncology*, 29(33):4470.
69. Romond, E., **Jeong, J.**, Rastogi, P. et al. (2012). Seven year follow-up assessment of cardiac function in NSABP B-31, a randomized trial comparing doxorubicin and cyclophosphamide Followed by paclitaxel (ACP) with ACP plus trastuzumab as adjuvant therapy for patients with node-positive, Human Epidermal Growth Factor Receptor 2-positive breast cancer. *Journal of Clinical Oncology* 30, 3792-3799.
70. Kirk, K., Shoykhet, M., **Jeong, J.** et al. (2012). Dysautonomia after pediatric brain injury in a rehabilitation setting. *Developmental Medicine & Child Neurology*, 54, 759-64
71. Mell, L.K., Lau, S.K., Rose, B.S., and **Jeong, J.** (2012). Treatment effect (de)composition in cancer clinical trials. *Contemporary Clinical Trials* 33, 920–924.
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102. Muthiah N, Zhang J, Remick M, Welch W, Sogawa Y, **Jeong J**, Abel TJ. (2020). Efficacy of vagus nerve stimulation for drug-resistant epilepsy in children age six and younger. *Epilepsy & Behavior*, [doi.org/10.1016/j.yebeh.2020.107373](https://doi.org/10.1016/j.yebeh.2020.107373).
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109. Mamounas EP, Bandos H, Rastogi P, Lembersky BC, **Jeong J-H**, Geyer CE Jr. et al. (2022). Ten-year results from NRG Oncology/NSABP B-42: Extended Letrozole Therapy in Postmenopausal Women with Hormone-receptor Positive, Early-stage Breast Cancer. *Journal of National Cancer Institute*. DOI: 10.1093/jnci/djad078.
110. Shaikh N, Hoberman A, Shope TR, **Jeong J** et al. (2023). Efficacy of Antibiotics in Children with Acute Sinusitis: Which Subgroups Benefit? *Journal of American Medical Association* 330(4): 349-358.

## Manuscripts Submitted

1. Alter BJ, Moses M, DeSensi R, O'Connell B, Bernstein C, McDermott S, Jeong J, Wasan AD. (2023). Machine learning applied to chronic pain drawings for improved diagnosis. *JAMA Network Open*.
2. Wasan AD, Gillman AG, Yin Q, Jabbari F, **Jeong J**, Cooper GF. (2022). Personalized Pain Treatment: Random forest models trained with patient-reported outcomes and electronic medical records predict responses to chronic pain treatments. *Jama Network Open*.
3. Behari J, Cappella N, Townsend K, ..., **Jeong J** et al. (2022). Estimating the burden of nonalcoholic steatohepatitis using a multistate electronic health record data network. *PLOS ONE*.
4. Galbiati F, Jokar TO, Howell LM, Li R, Fourman LT, Lee H, **Jeong J-H**, Fazeli PK. (2022). Treatment of a high-normal TSH is associated with increased conception but decreased live birth rate. *The Journal of Clinical Endocrinology & Metabolism*.

## Manuscripts in Revision

1. \*Jia Y and **Jeong J.** DeepCENT: Prediction of censored event time via deep learning. Revision submitted to *Computational Statistics*.
2. Lin H, Ha I, **Jeong J** and Lee Y. Joint AFT random-effect modeling approach for clustered competing-risks data. Revision submitted to *Journal of Statistical Computation and Simulation*.
3. \*Yin Q., **Jeong J**, Peddada SD, and Adibi J. Mediation analysis using semi-parametric shape-restricted regression for analyzing the effect of pesticide exposures on birth weight.
4. \*Shuai, Y., **Jeong, J.**, and Cheng, Y. (2020). Multinomial logistic regression and its prediction accuracy for interval-censored competing risks data.

## Manuscripts Archived

1. Jeong, J. (2018). Domain of inverse double arcsine transformation. *arXiv:1811.07827*.
2. \*Zhang D and **Jeong J.** (2022). Causal inference on win ratio for observational data with dependent subjects. *arXiv:2212.06676*.
3. \***Jeong J** and Jia Y. Causal Deep Learning for Estimating Individual Treatment Effect in Censored Survival Data. *arXiv:2203.10207*.

## Manuscripts in Preparation

1. **Jeong J.** (2022). Causal inference under Cox's proportional hazards model.

## Independent Research Funding

Years Inclusive	Title	Source	Role
07/01/04-06/30/07	Statistical Modeling on Life Expectancy of Breast Cancer Patients	Department of Defense	PI

## Teaching and Student Mentorship

### Courses Taught at Pitt Biostatistics

BIOST 2043: Introduction to Statistical Theory I  
 BIOST 2044: Introduction to Statistical Theory II  
 BIOST 2049: Applied Regression Analysis  
 BIOST 2051: Statistical Estimation Theory  
 BIOST 2054/STAT 2261: Survival Analysis  
 BIOST 2066: Applied Survival Analysis  
 BIOST 2086: Mixed Models

### Student Advising at Pitt Biostatistics

Name of Student	Degree Awarded, Year	Title
Paul Ricci	M.S., 2001	An extension of parametric modeling in survival analysis
Truc Truong	M.S., 2004	Estimation of risk patterns over age by frailty among breast cancer patients

<b>Name of Student</b>	<b>Degree Awarded, Year</b>	<b>Title</b>
Bintu Sherif	M.S., 2007	A comparison of Kaplan-Meier and cumulative incidence estimates in the presence or absence of competing risks in breast cancer data
Shaowu Tang	M.S., 2010	Nonparametric Tests for Quantile Functions for Censored Survival Data
Qing Xu	Ph.D., 2007	Inference on survival data under nonproportional hazards ( <u>Mathematical Statistician, Division of Biometrics V, Center for Drug Evaluation and Research (CDER), FDA</u> )
Hanna Bandos	Ph.D., 2007	Inference on Median Residual Life Function in Censored Survival Data ( <u>Research Assistant Professor, Department of Biostatistics, University of Pittsburgh</u> )
Sarah Haile	Ph.D., 2008	Inference on Competing Risks in Breast Cancer Data ( <u>Research Associate, Department of Biostatistics, University of Zürich, Switzerland</u> )
Nicholas Christian	Ph.D., 2011	Hierarchical Likelihood Inference on Clustered Competing Risks Data ( <u>Senior statistician, PNC Bank, Pittsburgh</u> )
Jeong-Youn Lim	Ph.D., 2011	Inference on Censored Survival Data under Competing Risks ( <u>Senior Statistician, Division of Biostatistics, Oregon Health and Sciences University</u> )
Kyung-Ah (Kelly) Im	Ph.D., 2012	A Stochastic EM Algorithm for G-Rho Family Accelerated Failure Time Model with Random Effects
Wen-Chi Wu	Ph.D., 2014	Inference on Conditional Quantile Residual Life for Censored Survival Data ( <u>Senior Scientist at Merck</u> )
Samia Lopa	Ph.D., 2014	Inference on Quantile Residual Life for Length-Biased Survival Data ( <u>Senior Biostatistician, Department of Urology, University of Pittsburgh School of Medicine</u> )
Kidane Ghebrehawariat	Ph.D., 2015	Parametric inference on quantile residual life ( <u>Online Tutor, Wyzant</u> )

<b>Name of Student</b>	<b>Degree Awarded, Year</b>	<b>Title</b>
Lauren Balmert	Ph.D., 2017	Statistical inference on life lost ( <u>Assistant Professor, Department of Preventive Medicine, Northwestern University</u> )
Di Zhang	Ph.D., 2019	Statistical inference on cluster-randomized semi-competing risks data ( <u>Associate Director, RWE Statistics Lead</u> )
Qing Yin	Ph.D., 2021	Shape detection and mediation analysis using semi-parametric shape-restricted regression spline with applications ( <u>Senior Statistician, CDRH, FDA</u> )
Yichen Jia	Ph.D. 2022	Quantile regression with random effects for time-to-event data ( <u>Senior Statistician, Sanofi</u> )

## Journal Referees

American Journal of Epidemiology  
 Annals of the Institute of Statistical Mathematics  
 Biometrical Journal  
 Biometrics  
 Biometrika  
 Biostatistics  
 Cancer  
 Circulation  
 Cleft Palate Cranio-facial Journal  
 Computational Statistics  
 Computational Statistics and Data Analysis  
 Communications in Statistics-Simulation and Computation  
 Communications in Statistics-Theory and Methods  
 Controlled Clinical Trials  
 International Journal of Biostatistics  
 Journal of American Statistical Association  
 Journal of Clinical Oncology  
 Journal of Machine Learning Research  
 Journal of Nonparametric Statistics  
 Journal of the Royal Statistical Society  
 Journal of the National Cancer Institute  
 Journal of Statistical Planning and Inference  
 Journal of Statistical Research

August 22, 2023

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Journal of the American Medical Informatics Association  
Lifetime Data Analysis  
Medical and Pediatric Oncology  
Metron  
Nature Communications  
npj Digital Medicine  
Sankhya  
Scandinavian Journal of Statistics  
Scientific Reports  
Statistica Sinica  
Statistical Methods in Medical Research  
Statistics and Probability Letters  
Statistics in Medicine