

Gideon K. Zamba, PhD

College of Public Health Curriculum Vitae

Department of Biostatistics

gideon-zamba@uiowa.edu

March 2026

Educational and Professional History

Degrees Earned

- 1995 BS/MS in Applied Mathematics, Université du Benin, Lomé, Togo
- 2003 MS/PhD in Statistics, University of Minnesota

Certifications

- 2008 Applying Problem-Based Learning across Curricula, University of Iowa Center for Teaching, Iowa
- 2009 Creating a Professional Portfolio, University of Iowa Center for Teaching, Iowa
- 2009 Non-Western Ways of Learning and Teaching, University of Iowa Center for Teaching, Iowa
- 2012 Carver College of Medicine Teaching Scholar Program: Certificate of Teaching Skills Course Completion, University of Iowa Carver College of Medicine, Iowa
- 2014 Carver College of Medicine Teaching Scholar Program, University of Iowa Carver College of Medicine, Iowa
- 2015 Improving Student Writing and Critical Thinking Skills through Peer Assessment with Calibrated Peer Review (CPR), University of Iowa Center for Teaching, Iowa

Employment History

- 1994 - 1997 Primary Math Instructor, Kouvahey College, Lomé, Togo
- 1999 - 2000 Teaching Assistant, School of Statistics, University of Minnesota
- 2000 Research Assistant-Consultant, School of Statistics, University of Minnesota
- 2000 - 2001 Lab Instructor, School of Statistics, University of Minnesota
- 2001 - 2003 Primary Instructor, School of Statistics, University of Minnesota
- 2003 - 2004 Visiting Assistant Professor, Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, Iowa
- 2004 - 2006 Clinical Assistant Professor, Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, Iowa
- 2006 - 2012 Tenure-Track Assistant Professor, Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, Iowa
- 2012 - 2018 Associate Professor, Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, Iowa
- 2004 - Present Biostatistician/Consultant, Biostatistical Consulting Center, College of Public Health, University of Iowa, Iowa City, Iowa

| | |
|----------------|--|
| 2005 - Present | Biostatistician, Holden Comprehensive Cancer Center, University of Iowa, Iowa City, Iowa |
| 2008 - Present | Director, Iowa Summer Institute in Biostatistics, Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, Iowa |
| 2018 - Present | Professor, Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, Iowa |
| 2018 - Present | Professor, Department of Radiology & Nuclear Medicine, University of Iowa, Iowa City, Iowa |

Honors and Awards

| | |
|------|---|
| 1997 | Distinguished Instructor Award, Kouvahey College, Lome-Togo, West Africa |
| 2002 | Excellence in Teaching Award, University of Minnesota, School of Statistics |
| 2009 | Recipient of Thank a Teacher note of appreciation, University of Iowa Center for Teaching |
| 2011 | Faculty Teaching Award, College of Public Health, University of Iowa |
| 2012 | Carver College of Medicine Teaching Scholar Program, University of Iowa |
| 2014 | Carver College of Medicine Teaching Scholar, University of Iowa |
| 2016 | Delta Omega Honor Society |
| 2018 | Faculty Service Award, College of Public Health, University of Iowa, Iowa City, Iowa |
| 2018 | Dr. Carol S. Gleich Development Award, College of Public Health, The University of Iowa |
| 2019 | Nominated for University of Iowa Diversity Catalyst Award, University of Iowa |
| 2019 | Travel Award for the 6th AIC Meeting in Arsi, The American Statistical Association, Arsi, Ethiopia |
| 2020 | Nominated for the Teaching Excellence Award, Association of Schools and Programs of Public Health (ASPPH) |

Teaching

Course Teaching

University of Iowa

| | |
|-------------|---|
| Fall 2003 | Intro to Biostatistical Computing, 171:168:A01, Credit Hours: 1, Enr: 9, Percent of Course: 50.0% |
| Fall 2003 | Intro to Biostatistics with lab, 171:161, Credit Hours: 3, Enr: 84, Percent of Course: 100.0% |
| Spring 2004 | Intro to Biostatistics with lab, 171:161:A01, Credit Hours: 3, Enr: 72, Percent of Course: 100.0% |
| Summer 2004 | Des & Anal of Exper in Bio Sciences, 171:162, Credit Hours: 3, Enr: 14, Percent of Course: 100.0% |

| | |
|-------------|---|
| Fall 2004 | Intro to Biostatistical Computing, 171:168, Credit Hours: 1, Enr: 6, Percent of Course: 100.0% |
| Spring 2005 | Statistical Methods in Clinical Trials, 171:266, Credit Hours: 3, Enr: 19, Percent of Course: 30.0% |
| Fall 2005 | Research Data Management, 171:164, Credit Hours: 3, Enr: 31, Percent of Course: 100.0% |
| Spring 2006 | Intro to Biostatistical Computing, 171:168, Credit Hours: 1, Enr: 5, Percent of Course: 100.0% |
| Fall 2006 | Biostatistical Computing, 171:178, Credit Hours: 3, Enr: 14, Percent of Course: 100.0% |
| Spring 2007 | Intro to Biostatistics with lab, 171:161, Credit Hours: 3, Enr: 109, Percent of Course: 100.0% |
| Fall 2007 | Biostatistical Computing, 171:178, Credit Hours: 3, Enr: 18, Percent of Course: 100.0% |
| 2008 | Independent Study, 171:281, Credit Hours: 3, Enr: 2, Percent of Course: 100.0% |
| Summer 2008 | Biostatistics Summer Institute, Credit Hours: 4, Enr: 4, Percent of Course: 100.0% |
| Fall 2008 | Biostatistical Computing, 171:178, Credit Hours: 3, Enr: 10, Percent of Course: 100.0% |
| Summer 2009 | Iowa Summer Institute in Biostatistics, Credit Hours: 4, Enr: 6, Percent of Course: 100.0% |
| Fall 2009 | Biostatistical Computing, 171:178, Credit Hours: 3, Enr: 10, Percent of Course: 100.0% |
| Spring 2010 | Research in Biostatistics, 171:295, Credit Hours: 3, Enr: 1, Percent of Course: 100.0% |
| Summer 2010 | General Biostatistics, 171:121, Credit Hours: 4, Enr: 15, Percent of Course: 100.0% |
| Fall 2010 | Biostatistical Computing, 171:178, Credit Hours: 3, Enr: 16, Percent of Course: 100.0% |
| Spring 2011 | Preceptorship in Biostatistics, 171:280, Credit Hours: 3, Enr: 1, Percent of Course: 100.0% |
| Summer 2011 | General Biostatistics, 171:121, Credit Hours: 4, Enr: 16, Percent of Course: 100.0% |
| Fall 2011 | Biostatistical Computing, 171:178, Credit Hours: 3, Enr: 11, Percent of Course: 100.0% |
| Fall 2011 | Independent Study, 171:281, Credit Hours: 3, Enr: 1, Percent of Course: 100.0% |
| Fall 2012 | Biostatistical Methods I, 171:201, Credit Hours: 4, Enr: 14, Percent of Course: 100.0% |
| Fall 2012 | Preceptorship in Biostatistics, 171:280, Credit Hours: 3, Enr: 1, Percent of Course: 100.0% |
| Spring 2013 | Problems/Special Topics in Biostatistics: Statistical Methods for Diagnostic Medicine, 171:282, Credit Hours: 1, Enr: 1, Percent of Course: 50.0% |
| Fall 2013 | Biostatistical Methods I, 171:201, Credit Hours: 4, Enr: 13, Percent of Course: 100.0% |
| Fall 2013 | Preceptorship in Biostatistics, 171:280, Credit Hours: 3, Enr: 2, Percent of Course: 100.0% |
| Spring 2014 | Preceptorship in Biostatistics, 171:280, Credit Hours: 3, Enr: 3, Percent of Course: 100.0% |
| Summer 2014 | General Biostatistics, BIOS:4110:0001, Credit Hours: 4, Enr: 19, Percent of Course: 100.0% |
| Fall 2014 | Theory of Biostatistics I, BIOS:7110:0001, Credit Hours: 4, Enr: 7, Percent of Course: 100.0% |

| | |
|-------------|--|
| Summer 2015 | General Biostatistics, BIOS:4110:0001, Credit Hours: 4, Enr: 16, Percent of Course: 100.0% |
| Fall 2015 | Theory of Biostatistics I, BIOS:7110:0001, Credit Hours: 4, Enr: 4, Percent of Course: 100.0% |
| Fall 2016 | Theory of Biostatistics I, BIOS:7110:0001, Credit Hours: 4, Enr: 5, Percent of Course: 100.0% |
| Fall 2016 | Thesis/Dissertation, BIOS:7900:3454, Percent of Course: 100.0% |
| Spring 2017 | Independent Study in Biostatistics, BIOS:7800:4740, Percent of Course: 100.0% |
| Spring 2017 | Thesis/Dissertation, BIOS:7900:4918, Percent of Course: 100.0% |
| Summer 2017 | General Biostatistics, BIOS:4110:0001, Credit Hours: 3, Enr: 21 |
| Fall 2017 | Theory of Biostatistics I, BIOS:7110:0001, Credit Hours: 4, Enr: 6, Percent of Course: 100.0% |
| Fall 2017 | Thesis/Dissertation, BIOS:7900:6542, Percent of Course: 100.0% |
| Spring 2018 | Preceptorship in Biostatistics, BIOS:7500:9890, Percent of Course: 100.0% |
| Spring 2018 | Thesis/Dissertation, BIOS:7900:9366, Percent of Course: 100.0% |
| Summer 2018 | General Biostatistics, BIOS:4110:0001, Credit Hours: 3, Enr: 16, Percent of Course: 100.0% |
| Summer 2018 | Thesis/Dissertation, BIOS:7900:1616, Percent of Course: 100.0% |
| Fall 2018 | Theory of Biostatistics I, BIOS:7110:0001, Credit Hours: 4, Enr: 7, Percent of Course: 100.0% |
| Spring 2019 | Preceptorship in Biostatistics, BIOS:7500:4272, Enr: 1, Percent of Course: 100.0% |
| Summer 2019 | General Biostatistics, BIOS:4110:0001, Credit Hours: 3, Enr: 24, Percent of Course: 100.0% |
| Fall 2019 | Preceptorship in Biostatistics, BIOS:7500:6765, Enr: 1, Percent of Course: 100.0% |
| Fall 2019 | Theory of Biostatistics I, BIOS:7110:0001, Credit Hours: 4, Enr: 11, Percent of Course: 100.0% |
| Spring 2020 | Independent Study in Biostatistics, BIOS:7800:8477, Enr: 1, Percent of Course: 100.0% |
| Summer 2020 | Problems/Special Topics in Biostatistics, BIOS:7700:0001, Credit Hours: 2, Enr: 9, Percent of Course: 100.0% |
| Spring 2021 | Theory Linear/Generalized Linear Models, BIOS:7250:0001, Credit Hours: 4, Enr: 16, Percent of Course: 100.0% |
| Summer 2021 | General Biostatistics, BIOS:4110:0001, Credit Hours: 3, Enr: 15, Percent of Course: 100.0% |
| Spring 2022 | Theory Linear/Generalized Linear Models, BIOS:7250:0001, Credit Hours: 4, Enr: 10, Percent of Course: 100.0% |
| Summer 2022 | General Biostatistics, BIOS:4110:0001, Credit Hours: 3, Enr: 11, Percent of Course: 100.0% |
| Spring 2023 | Theory Linear/Generalized Linear Models, BIOS:7250:0001, Credit Hours: 4, Enr: 6, Percent of Course: 100.0% |
| Summer 2023 | General Biostatistics, BIOS:4110:0001, Credit Hours: 3, Enr: 19, Percent of Course: 100.0% |

| | |
|------------------------------|--|
| Spring 2024 | Theory Linear/Generalized Linear Models, BIOS:7250:0001, Credit Hours: 4, Enr: 5, Percent of Course: 100.0% |
| Summer 2024 - Summer 2024 | General Biostatistics, BIOS:4110:0001, Credit Hours: 3, Enr: 17, Percent of Course: 100.0% |
| Fall 2024 | Epidemiology Journal Club, EPID:5925:0001, Credit Hours: 0, Enr: 23, Percent of Course: 100.0% |
| Spring 2025 | Theory Linear/Generalized Linear Models, BIOS:7250:0001, Credit Hours: 4, Enr: 9, Percent of Course: 100.0% |
| Summer 2025 | General Biostatistics, BIOS:4110:0001, Credit Hours: 3, Enr: 20, Percent of Course: 100.0% |
| Spring 2026 | Theory Linear/Generalized Linear Models, BIOS:7250:0001, Credit Hours: 4, Enr: 11, Percent of Course: 100.0% |

Other Institutions

| | |
|------|--|
| 2000 | Applied Regression including Computing & Graphics, ***:***:***, University of Minnesota |
| 2001 | Probability-Statistics –Tests and Data Analysis Stat 3011; 3022, ***:***:***, University of Minnesota, Percent of Course: 100.0% |
| 2002 | Probability-Statistics –Tests and Data Analysis Stat 3011; 3022, ***:***:***, University of Minnesota, Percent of Course: 100.0% |
| 2003 | Probability-Statistics –Tests and Data Analysis Stat 3011; 3022, ***:***:***, University of Minnesota, Percent of Course: 100.0% |

Scholarship/Professional Productivity

Publications or creative works

Peer-reviewed papers and journal articles

1. Hawkins, D. M. & **Zamba, K. D.** (2004). On small shifts in quality control. (Vols. 16). pp. 143-149. Quality Engineering.
2. Hawkins, D. M. & **Zamba, K. D.** (2005). Statistical process control for shifts in mean or variance using a changepoint formulation. (Vols. 41). pp. 164-173. Technometrics.
3. Hawkins, D. M. & **Zamba, K. D.** (2005). A change-point model for a shift in variance. (Vols. 37). (1), pp. 21-31. Journal of Quality Technology.
4. Berger, K. L., Barriga, F., Lace, M. J., Turek, L., **Zamba, K. D.**, Domann, F., Lee, J. H. & Klingelhutz, A. J. (2006). Cervical keratinocytes containing stably replicating episomal HPV-16 are refractory to transform by oncogenic H-Ras. (Vols. 356). (1-2), pp. 68-78. Journal of Virology. [PMID: 16945398](#). [PMCID: PMC1993897](#).
5. **Zamba, K. D.** & Hawkins, D. M. (2006). A multivariate change point model for statistical process control. (Vols. 48). (4), pp. 539-549. Technometrics.
6. Romitti, P., Puzhankara, S., Matthews, K., **Zamba, K. D.**, Cunniff, C., Andrews, J., Matthews, D., James, K., Miller, L., Druschel, C., Fox, D., Pandya, S., Ciafolini, E., Adams, M., Mandel, D., Ouyang, L., Constantin, C. & Costa, P. (2007). Prevalence of Duchenne/Becker muscular dystrophy among males aged 5-24 years – four states, 2007. (Vols. 58). (40), pp. 1119-1122. CDC Morbidity and Mortality Weekly Report. [PMID: 19834452](#).

7. Staffey, K. S., Raghuvver, D., Leonard, A., Brooks, B. A., Andrew, M., Pretorius, B. S., Laynez, W., Ackermann, B. S., **Zamba, K. D.**, Dickson, E. & Kerber, R. E. (2008). Liquid ventilation with perfluorocarbons facilitates resumption of spontaneous circulation in a swine cardiac arrest model. (Vols. 78). pp. 77-84. Resuscitation. [PMID: 18406036](#). [PMCID: PMC2483299](#).
8. **Zamba, K. D.**, Tsiamyrtizis, P. & Hawkins, D. M. (2008). Sequential Bayesian control model for influenza-like-illness and early detection of intentional outbreaks. (Vols. 20). (4), pp. 495-507. Quality Engineering.
9. Ahmed, A., **Zamba, K. D.**, DeGeest, K. & Lynch, C. F. (2008). The impact of surgery on survival of elderly women with endometrial cancer in the SEER Program from 1992-2002. (Vols. 111). (1), pp. 35-40. Gynecologic Oncology. [PMID: 18707756](#).
10. Myerholz, D. K., McNamara, A., Piester, T., Orion, K., **Zamba, K. D.** & Light, T. (2009). Pharmacologic modification to resuscitation fluid following thermal injury – Is Drotrecogin alpha the answer to arrest burn depth progression?. (Vols. 76). (5), pp. 996-1003. The Journal of Trauma, Injury, Infection and Critical Care. [PMID: 19901660](#).
11. Jacobson, G., Lamml, J., **Zamba, K. D.**, Hua, L. & Goodheart, M. J. (2009). Thromboembolic events in patients with cervical carcinoma: Incidence and effect on survival. (Vols. 113). (2), pp. 240-244. Gynecologic Oncology. [PMID: 19251310](#).
12. McNamara, A., Piester, L., Meyerholz, K., **Zamba, K. D.**, Sokolich, J. C., Jaskille, A. D., Griffin, M. A. & Light, T. D. (2009). Apoptosis is differentially regulated by burn severity and dermal location. (Vols. 76). (5), pp. 996-1003. Journal of Surgical Research. [PMID: 19439323](#).
13. **Zamba, K. D.** & Hawkins, D. M. (2009). A multivariate change point model for change in mean vector and/or covariance structure. (Vols. 41). (3), pp. 285-303. Journal of Quality Technology.
14. Tsai, R., Dennis, L., Lynch, L., Snetselaar, L., **Zamba, K. D.** & Scott-Conner, C. (2009). The risk of developing arm lymphedema among breast cancer survivors: a meta-analysis of treatment factors. (Vols. 16). (7), pp. 1959-1972. Annals of Surgical Oncology. [PMID: 19365624](#).
15. Meyerholz, D. K., Piester, T. L., Sokolich, J. C., Light, T. D. & **Zamba, K. D.** (2009). Morphologic parameters for assessment of burn severity in an acute burn injury rat model. (Vols. 90). (1), pp. 26-33. International Journal of Experimental Pathology. [PMID: 19200248](#). [PMCID: PMC2669613](#).
16. Dawson, J. D., Cavanaugh, J. E., **Zamba, K. D.** & Rizzo, M. (2010). Modeling lateral control in driving studies. (Vols. 42). (3), pp. 891-897. Accident Analysis & Prevention. [PMID: 20380917](#). [PMCID: PMC2910617](#).
17. Prybil, L. D., Peterson, R., Brezinski, P., **Zamba, K. D.**, Roach, W. J. & Fuillmore, A. (2010). Board oversight of patient care quality in community health system. (Vols. 25). (1), pp. 34-41. American Journal of Medical Quality. [DOI: 10.1177/1062860609352804](#). [PMID: 20042764](#).
18. Kwon, S., Jamal, M., **Zamba, K. D.**, Stumbo, P. & Samuel, I. (2010). Validation of a novel physical activity assessment device in morbidly obese females. (Vols. 2010). (Article ID 856376), pp. 8 pages. Journal of Obesity. [DOI: 10.1155/2010/856376](#). [PMID: 20798844](#). [PMCID: PMC2925378](#).
19. Wall, M., Woodward, K. R., Doyle, C. K. & **Zamba, K. D.** (2010). The effective dynamic ranges of standard automate perimetry sizes III and V, motion and matrix perimetry. (Vols. 128). (5), pp. 570-576. Archives of Ophthalmology. [DOI: 10.1001/archophthalmol.2010.71](#). [PMID: 20457977](#).
20. Navalkele-Chiwane, P., O'Dorisio, T., Lynch, C., **Zamba, K. D.** & O'Dorisio, S. (2011). Incidence, survival and prevalence of neuroendocrine tumors versus neuroblastoma in children and young adults: Nine standard SEER registries, 1975–2006. (Vols. 56). (1), pp. 50-57. Pediatric Blood and Cancer. [DOI: 10.1002/pbc.22559](#). [PMID: 21108439](#).
21. **Zamba, K. D.** & Adekpedjou, A. (2011). Parameter estimation for correlated recurrent events under informative monitoring. (Vols. 8). pp. 273-290. Statistical Methodology.
22. Shamshirsaz, A. A., Buekers, T., DeGeest, K., Bender, D., **Zamba, K. D.** & Goodheart, M. J. (2011). A single institution evaluation of factors important in fallopian tube carcinoma recurrence and survival. (Vols. 21). (7), pp. 1232-1240. International Journal of Gynecological Cancer. [DOI: 10.1097/IGC.0b013e318220fc46](#). [PMID: 21720254](#).

23. Muniz, V., Barnes, J., Paliwal, S., Zhang, X., Tang, X., Chen, S., **Zamba, K. D.**, Cullen, J., Meyerholz, D., Meyers, S., Davis, N., Grossman, S., Henry, M. & Quelle, D. (2011). The ARF tumor suppressor inhibits tumor cell colonization independent of p53 in a novel mouse model of pancreatic ductal adenocarcinoma metastasis. (Vols. 9). (7), pp. 867-877. *Molecular Cancer Research*. [PMID: 21636682](#). [PMCID: PMC3140613](#).
24. Jacobson, G., **Zamba, K. D.**, Betts, V., Muruganandham, M. & Buechler, J. (2011). Image-based treatment planning of the post-lumpectomy breast utilizing CT and 3TMRI. (Vols. Epub 2011). pp. 2011:246265. *International Journal of Breast Cancer*. [DOI: 10.4061/2011/246265](#). [PMID: 22295215](#). [PMCID: PMC3262557](#).
25. Kay, C. N., Pavan, P. R., Small, L. B., Zhang, T., **Zamba, K. D.** & Cohen, S. M. (2011). Familial trends in a population with macular holes. (Vols. 32). (4), pp. 754-759. *Retina*. [DOI: 10.1097/IAE.0b013e3182252a92](#). [PMID: 22080908](#).
26. Lorentzen, D., Durairaj, L., Pezzulo, A. A., Nakano, Y., Launspach, J., Stoltz, D. A., **Zamba, K. D.**, McCray, P. B., Zabner, J., Welsh, M. J., Nauseef, W. M. & Botond, B. (2011). Concentration of the antibacterial precursor thiocyanate in cystic fibrosis airway secretions. (Vols. 50). (9), pp. 1144-1150. *Free Radical Biology & Medicine*. [DOI: 10.1016/j.freeradbiomed.2011.02.013](#). [PMID: 21334431](#). [PMCID: PMC3070840](#).
27. Lemke, C., Graham, J., Geary, S., **Zamba, K. D.**, Lubaroff, D. & Salem, A. (2011). Chitosan is a surprising negative modulator of cytotoxic DC8+ T cell responses elicited by adenovirus cancer vaccines. (Vols. 8). (5), pp. 1652-1661. *Molecular Pharmaceutics*. [DOI: 10.1021/mp100464y](#). [PMID: 21780831](#). [PMCID: PMC3562499](#).
28. Adekpedjou, A. & **Zamba, K. D.** (2012). A chi-squared goodness of fit test for recurrent event data. (Vols. 11). (2), pp. 97-119. *Journal of Statistical Theory and Application*.
29. **Zamba, K. D.**, Adekpedjou, A. & Yang, M. (2012). Inter-event times estimation for correlated recurrent event data under informative monitoring. (Vols. 46). pp. 155-184. *South African Journal of Statistics*.
30. Santillan, M., Santillan, D., Fleener, D., Stegmann, B., **Zamba, K. D.**, Hunter, S. & Yankowitz, J. (2012). Single umbilical artery: Does side matter?. (Vols. 32). (3), pp. 207-208. *Fetal Diagnosis and Therapy*. [DOI: 10.1159/000338133](#). [PMID: 22678110](#).
31. Sullivan, R. M., Zhang, J., **Zamba, K. D.**, Lip, G. Y., Zimmerman, M. B. & Olshansky, B. (2012). Relation of gender specific risk of ischemic stroke in patients with atrial fibrillation to differences in Warfarin anticoagulation control (from AFFIRM). (Vols. 110). (12), pp. 1797-1802. *American Journal of Cardiology*. [DOI: 10.1016/j.amjcard.2012.08.014](#). [PMID: 22995971](#).
32. Yang, M., **Zamba, K. D.** & Cavanaugh, J. E. (2013). Markov regression models for count time series with excess zeros: A partial likelihood approach. (Vols. 14). pp. 26-38. *Statistical Methodology*.
33. **Zamba, K. D.**, Tsiamyrtizis, P. & Hawkins, D. M. (2013). A three-state recursive sequential Bayesian algorithm for biosurveillance. (Vols. 58). (1), pp. 82-97. *Journal of Computational Statistics and Data Analysis*.
34. Kummert, C., **Zamba, K. D.**, Doyle, C., Johnson, C. & Wall, M. (2013). Refinement of pointwise linear regression criteria for determining glaucoma progression. (Vols. 54). (9), pp. 6234-6241. *Investigative Ophthalmology and Visual Science*. [DOI: doi: 10.1167/iovs.13-11680](#). [PMID: 23908183](#). [PMCID: PMC3778872](#).
35. Tikkanen, S., Button, A., **Zamba, K. D.** & Hardy-Fairbanks, A. J. (2013). Effect of chlorhexidine skin prep and subcuticular skin closure on post-operative infectious morbidity and wound complications following cesarean section. (Vols. 3). (2), pp. 10. *Proceedings of Obstetric Gynecology*.
36. Wall, M., Doyle, C. K., Artes, P., Johnson, C. & **Zamba, K. D.** (2013). The repeatability of mean defect with size III and size V standard automated perimetry. (Vols. 54). (2), pp. 1345-1351. *Investigative Ophthalmology and Visual Science*. [DOI: doi: 10.1167/iovs.12-10299](#). [PMID: 23341012](#).
37. Abusin, G., Abu-Arja, R., Gingerich, R., Silverman, M., **Zamba, K. D.** & Schlueter, A. (2013). An algorithm for utilizing perihairal blood CD34 count as a predictor of the need for autologous stem cell mobilization -

- cost effectiveness analysis. (Vols. 28). (4), pp. 293-300. *Journal of Clinical Apheresis*. DOI: [10.1002/jca.21256](https://doi.org/10.1002/jca.21256). PMID: 23426644.
38. Menda, Y., Bolles Ponto, L. L., Schultz, M. K., **Zamba, K. D.**, Watkins, G. L., Bushnell, D. L., Madsen, M. T., Sunderland, J. J., Graham, M. M., O'Dorisio, T. M. & O'Dorisio, S. M. (2013). Repeatability of 68Ga-DOTATOC PET imaging in neuroendocrine tumors. (Vols. 42). (6), pp. 937-943. *Pancreas*. DOI: [10.1097/MPA.0b013e318287ce21](https://doi.org/10.1097/MPA.0b013e318287ce21). PMID: 23587853. PMCID: PMC3898770.
 39. Iyer, K. S., Grout, R. W., **Zamba, K. D.** & Hoffman, E. A. (2014). Repeatability and sample size assessment associated with computed tomography-based lung density metrics. (Vols. 1). (1), pp. 97-104. *Chronic Obstructive Pulmonary Diseases*. DOI: [10.15326/jcopdf.1.1.2014.0111#sthash.nxTDeRi7.dpuf](https://doi.org/10.15326/jcopdf.1.1.2014.0111#sthash.nxTDeRi7.dpuf). PMID: 25553338. PMCID: PMC4278434.
 40. Hrabe, J. E., Byrn, J. C., Kapadia, M. R., Button, A., **Zamba, K. D.** & Mezhir, J. J. (2014). A matched case-control study of IBD-associated colorectal cancer: IBD portends worse outcome. (Vols. 109). (2), pp. 117-121. *Journal of Surgical Oncology*. DOI: doi: [10.1002/jso.23465](https://doi.org/10.1002/jso.23465). PMID: 24132737.
 41. Engelman, E. S., Leon-Ferre, R., Naraev, B. G., Sharma, N., Sun, S., O'Dorisio, T. M., Howe, J., Button, A., **Zamba, K. D.** & Halfdanarson, T. R. (2014). Comparison of transarterial liver-directed therapies for low-grade metastatic neuroendocrine tumors in a single institution. (Vols. 43). (2), pp. 219-225. *Pancreas*. DOI: doi: [10.1097/MPA.000000000000030](https://doi.org/10.1097/MPA.000000000000030). PMID: 24518499. PMCID: PMC4307836.
 42. Bhatt, S. P., Sieren, J. C., Dransfield, M. T., Washko, G. R., Newell, Jr., J. D., Stinson, D. S., **Zamba, K. D.** & Hoffman, E. A. (2014). Comparison of spirometric thresholds in diagnosing smoking-related airflow obstruction. (Vols. 69). (5), pp. 409-414. *Thorax*. DOI: doi: [10.1136/thoraxjnl-2012-202810](https://doi.org/10.1136/thoraxjnl-2012-202810). PMID: 23525095. PMCID: PMC4146523.
 43. Santillan, M. K., Santillan, D. A., Scroggins, S. M., Min, J. Y., Sandgren, J. A., Pearson, N. A., Leslie, K. K., Hunter, S. K., **Zamba, K. D.**, Gibson-Corley, K. N. & Grobe, J. L. (2014). Vassopressin in preeclampsia: A novel very-early human pregnancy biomarker and clinically relevant mouse model. (Vols. 64). (4), pp. 852-859. *Hypertension*. DOI: doi: [10.1161/HYPERTENSIONAHA.114.03848](https://doi.org/10.1161/HYPERTENSIONAHA.114.03848). PMID: 25001273. PMCID: PMC4162750.
 44. Derksen, B. J., Duff, M. C., Weldon, K., Zhang, J., **Zamba, K. D.**, Tranel, D. & Denberg, N. L. (2015). Older adults catch up to younger adults on a learning and memory task that involves collaborative social interaction. (Vols. 23). (4), pp. 612-624. *Memory*. DOI: doi: [10.1080/09658211.2014.915974](https://doi.org/10.1080/09658211.2014.915974). PMID: 24841619. PMCID: PMC4237685.
 45. Yang, M., Cavanaugh, J. E. & **Zamba, K. D.** (2015). State-space models for count time series with excess zeros. (Vols. 15). (1), pp. 70-90. *Statistical Modelling*. DOI: [10.1177/1471082X14535530](https://doi.org/10.1177/1471082X14535530).
 46. Romitti, P. A., Zhu, Y., Puzhankara, S., Nabukera, S. K., **Zamba, K. D.**, Ciafaloni, E., Cunniff, C., Druschel, C. M., Matthews, K. D., Matthews, D. J., Meaney, F. J., Mann, S., Miller, L. A., Andrews, J. G., Caspers Conway, K. M., Fox, D. J., Scollon, S., Street, N., Adams, M. M., Bolen, J. & On behalf of STARnet (2015). Prevalence of Duchenne and Becker muscular dystrophies in the United States. (Vols. 135). (3), pp. 513-521. *Pediatrics*. DOI: doi: [10.1542/peds.2015-0652](https://doi.org/10.1542/peds.2015-0652). PMID: 25687144. PMCID: PMC4477633.
 47. Adekpedjou, A., Withanage De-Mel, A. & **Zamba, K. D.** (2015). Data dependent cells chi-square test with recurrent events. (Vols. 42). (4), pp. 1045-1064. *Scandinavian Journal of Statistics*. DOI: [10.1111/SJOS.12150](https://doi.org/10.1111/SJOS.12150).
 48. Wall, M., Johnson, C. A., Cello, K. E., **Zamba, K. D.**, McDermott, M. P., Keltner, J. L. & NORDIC Idiopathic Intracranial Hypertension Study Group (2016). Visual field outcomes for the Idiopathic Intracranial Hypertension Treatment Trial (IIHTT). (Vols. 57). (3), pp. 805-812. *Investigative Ophthalmology & Visual Science*. DOI: doi: [10.1167/iovs.15-18626](https://doi.org/10.1167/iovs.15-18626). PMID: 26934136. PMCID: PMC4777274.
 49. VanBuren, J., Oleson, J. J., **Zamba, K. D.** & Wall, M. (2016). Integrating independent spatio-temporal replications to assess population trends in disease spread. (Vols. 35). (28), pp. 5210-5221. *Statistics in Medicine*. DOI: [10.1002/sim.7056](https://doi.org/10.1002/sim.7056). PMID: 27453437.
 50. Menda, Y., O'Dorisio, T. M., Howe, J. R., Schultz, M., Dillon, J. S., Dick, D., Watkins, G. L., Ginader, T., Bushnell, D. L., Sunderland, J. J., **Zamba, K. D.**, Graham, M. & O'Dorisio, S. M. (2017). Localization of unknown primary site with 68Ga-DOTATOC PET/CT in patients with metastatic neuroendocrine tumor.

- (Vols. 58). (7), pp. 1054-1057. The Journal of Nuclear Medicine. [PMID: 28153957](#). [PMCID: PMC5493006](#).
51. Wall, M., **Zamba, K. D.** & Artes, P. (2017). The effective dynamic range for visual field progression with standard automated perimetry and stimulus sizes III and V. *Investigative Ophthalmology and Visual Science*. 59(1):439-445. PMID: 29356822. PMCID: PMC5777662. DOI: 10.1167/iovs.17-22390.
 52. Abongwa, C., Mott, S., Schafer, B., Abusin, G., O'Dorisio, T., **Zamba, K. D.**, O'Dorisio, S. M. & Menda, Y. (2017). Safety and accuracy of 68 Ga-DOTATOC PET/CT in children and young adults with solid tumors. (Vols. 7). (5), pp. 228-235 eCollection 2017. *American Journal of Nuclear Medicine and Molecular Imaging*. [PMID: 29181270](#). [PMCID: PMC5698616](#).
 53. Schumacher, A., Morris, C. M., Foster, E. O., Parker, E., Sewe, D. K., **Zamba, K. D.**, Daniel-Ulloa, J. & Baquero, B. (2017). Residents' neighborhood perceptions and their relation to health behaviors and general health: Evidence from a micropolitan community in Iowa. *Preventing Chronic Disease*.
 54. **Zamba, K. D.** (2017). A generalized Chi-squared goodness-of-fit test with ML estimation in the presence of recurrent events. *Journal of the Royal Statistical Society, Series B*.
 55. Adekpedjou, A., Olbricht, G. R. & **Zamba, K. D.** (2018). Confidence bands for quantiles as a function of covariates in recurrent event models. (Vols. 46). (4), pp. 610-634. *Canadian Journal of Statistics*.
 56. Tsai, R. J., Dennis, L. K., Lynch, C. F., Snetselaar, L. G., **Zamba, K. D.** & Scott-Conner, C. (2018). Lymphedema following breast cancer: The importance of surgical methods and obesity. (Vols. 3). (2), pp. 1-6. *Frontiers in Women's Health*. DOI: doi: 10.15761/FWH.1000144. [PMID: 30555923](#). [PMCID: PMC6293280](#).
 57. Wall, M., **Zamba, K. D.** & Johnson, C. (2018). SITA-standard perimetry has better performance than FDT2 matrix perimetry for detecting glaucomatous progression. (Vols. 102). (10), pp. 1396-1401. *British Journal of Ophthalmology*. DOI: doi: 10.1136/bjophthalmol-2017-310894. [PMID: 29331951](#).
 58. Menda, Y., Madsen, M. T., O'Dorisio, T. M., Sunderland, J. J., Watkins, G. L., Dillon, J. S., Mott, S., **Zamba, K. D.**, Schultz, M. K., Bushnell, D. L. & O'Dorisio, M. S. (2018). 90Y-DOTATOC dosimetry-based personalized peptide receptor radionuclide therapy. (Vols. 59). (11), pp. 1692-1698. *Journal of Nuclear Medicine*. DOI: 0.2967/jnumed.117.202903. [PMID: 29523629](#). [PMCID: PMC6225542](#).
 59. Monga, V., Kaleem, H., Mott, S. C., Button, A. M., **Zamba, K. D.** & Milhem, M. M. (2018). Discrepancy between treatment goals documentation by oncologists and their understanding among cancer patients. pp. Epub ahead of print. *Journal of Clinical Oncology*. DOI: doi: 10.1111/ecc.12973. [PMID: 30511450](#).
 60. Umesalma, S., Kaemmer, C., Kohlmeyer, J., Letney, B., Schab, A., Reilly, J., Sheehy, R., Hagen, J., Tiwari, N., Zhan, F., Leidinger, M., O'Dorisio, T., Dillon, J., Merrill, R. A., Meyerholz, D. K., Perl, A. L., Brown, B., Braun, T. A., Scott, A., Ginader, T., **Zamba, K. D.**, Howe, J. R., Strack, S., Bellizzi, A., Goutham Narla, G., Darbro, B., Quelle, F. & Quelle, D. (2019). RABL6A inhibits tumor-suppressive PP2A/AKT signaling to drive pancreatic neuroendocrine tumor growth. (Vols. 4). (129), pp. 1641-1653. *Journal of Clinical Investigation*. DOI: 10.1172/JCI123049. [PMID: 30721156](#). [PMCID: PMC6436899](#).
 61. Wall, M., Lee, E. J., Wanzek, R. J., **Zamba, K. D.**, Turpin, A., Chong, L. X. & Marin-Franch, I. (2019). Threshold automated perimetry of the full visual field in glaucoma patients with mild visual loss. (Vols. 28). (11), pp. 997-1005. *Journal of Glaucoma*. DOI: 10.1097/IJG.0000000000001372. [PMID: 31567907](#).
 62. **Zamba, K. D.** & Adekpedjou, A. (2019). A Khmaladze-transformed test of fit with ML estimation in the presence of recurrent events. (Vols. 38). (3), pp. 318-341. *Sequential Analysis*. DOI: <https://doi.org/10.1080/07474946.1648920>.
 63. Kohlmeyer, J. L., Kaemmer, C. A., Pulliam, C., Maharjan, C. K., Samayoa, A. M., Major, H., Cornick, K., Knepper-Adian, V., Khanna, R., Sieren, J. C., Leidinger, M. R., Meyerholz, D. K., **Zamba, K. D.**, Weimer, J. M., Dodd, R. D., Darbro, B., Tanas, M. R. & Quelle, D. (2020). RABL6A is an essential driver of MPNSTs that negatively regulates the RB1 pathway and sensitizes tumor cells to CDK4/6 inhibitors. (Vols. 26). (12), pp. 2996-3011. DOI: 10.1158/1078-0432.CCR-19-2706. [PMID: 32086342](#). [PMCID: PMC7299809](#).
 64. **Zamba, K. D.** & Tsiamyrtzis, P. (In Press). Sequential detection for real-time biosurveillance based on Shiryaev-Roberts procedure. *Sequential Analysis*.

65. Pillenahalli, M. R., Menda, Y., Graham, M. M., Boukhar, S. A., **Zamba, K. D.** & Samuel, I. (2020). Association of gallbladder hyperkinesia with acalculous chronic cholecystitis: A case-control study. (Vols. 168). (5), pp. 800-808. Surgery. [DOI: 10.1016/j.surg.2020.06.005](https://doi.org/10.1016/j.surg.2020.06.005). [PMID: 32653205](https://pubmed.ncbi.nlm.nih.gov/32653205/).
66. Bushnell, D. L., Bodeker, K., O'Dorisio, T., Madsen, M., Menda, Y., Graves, S., **Zamba, K. D.** & O'Dorisio, M. S. (2021). Dosimetrically determined addition of 131I MIBG to PRRT (90YDOTATOC) for personalized therapy of selected patients with midgut neuroendocrine tumors: Preliminary Phase 1 trial results. (Vols. 62). (9), pp. 1174-1177. Journal of Nuclear Medicine.
67. Kaemmer, C. A., Umesalma, S., Maharjan, C. K., Moose, D. L., Narla, G., Mott, S. L., **Zamba, K. D.**, Breheny, P., Darbro, B. W., Bellizzi, A. M., Henry, M. D. & Quelle, D. E. (2021). Development and comparison of novel bioluminescent mouse models of pancreatic neuroendocrine tumor metastasis. (Vols. 11). (1), pp. 10252. Scientific Reports. [DOI: 10.1038/s41598-021-89866-1](https://doi.org/10.1038/s41598-021-89866-1). [PMID: 33986468](https://pubmed.ncbi.nlm.nih.gov/33986468/). [PMCID: PMC8119958](https://pubmed.ncbi.nlm.nih.gov/PMC8119958/).
68. Maharjan, C. K., Kaemmer, C. A., Muniz, V. P., Baulche, C., Mott, S., **Zamba, K. D.**, Breheny, P., Leidinger, M. R., Darbro, B. W., Stephens, S. B., Meyerholz, D. K. & Quelle, D. E. (2021). RABL6A promotes pancreatic neuroendocrine tumor angiogenesis and progression in vivo. (Vols. 9). (6), pp. 633. Biomedicines. [DOI: 10.3390/biomedicines9060633](https://doi.org/10.3390/biomedicines9060633). [PMID: 34199469](https://pubmed.ncbi.nlm.nih.gov/34199469/). [PMCID: PMC8228095](https://pubmed.ncbi.nlm.nih.gov/PMC8228095/).
69. Pollard, J. H., Bushnell, D. L., Menda, Y., **Zamba, K. D.**, O'Dorisio, M. S. & O'Dorisio, T. (2021). Potential for increasing tumor uptake of radiolabeled 68Ba-DOTATOC and 123I-MIBG in patients with mid-gut neuroendocrine tumors using a histone deacetylase inhibitor vorinostat (suberoylanilide hydroxamic acid). Cancer Biother Radiopharm. 36(8):632-641. [PMID: 34252288](https://pubmed.ncbi.nlm.nih.gov/34252288/). [PMCID: PMC8817731](https://pubmed.ncbi.nlm.nih.gov/PMC8817731/). [DOI: 10.1089/cbr.2020.4633](https://doi.org/10.1089/cbr.2020.4633).
70. Monga, V., Miller, B. J., Tanas, M., Boukhar, S., Allen, B., Anderson, C., Stephens, L., Hartwig, S., Varga, S., Houtman, J., Wang, L., Zhang, W., Jaber, O., Thomason, J., Kuehn, D., Rajput, M., Metz, C. D., **Zamba, K. D.**, Mott, S., Abanonu, C., Bhatia, S. & Milhem, M. (2021). Intratumoral talimogene laherparepvec injection with concurrent preoperative radiation in patients with locally advanced soft-tissue sarcoma of the trunk and extremities: Phase IB/II Trial. (Vols. 9). (7), pp. e003119. Journal for Immunotherapy of Cancer. [DOI: 10.1136/jitc-2021-003119](https://doi.org/10.1136/jitc-2021-003119). [PMID: 34330766](https://pubmed.ncbi.nlm.nih.gov/34330766/). [PMCID: PMC8327848](https://pubmed.ncbi.nlm.nih.gov/PMC8327848/).
71. Pollard, J. H., Menda, Y., **Zamba, K. D.**, Madsen, M. T., O'Dorisio, M. T., O'Dorisio, M. S. & Bushnell, D. (2021). Potential for increasing uptake of radiolabeled 68 Ga-DOTATOC and 123 I-MIBG in patients with midgut neuroendocrine tumors using histone deacetylase inhibitor vorinostat. pp. online ahead of print. Cancer Biotherapy and Radiopharmaceuticals. [DOI: 10.1089/cbr.2020.4633](https://doi.org/10.1089/cbr.2020.4633). [PMCID: 34252288](https://pubmed.ncbi.nlm.nih.gov/34252288/).
72. Bushnell, D. L., Bodeker, K., O'Dorisio, T., Madsen, M., Menda, Y., Graves, S., **Zamba, K. D.** & O'Dorisio, M. S. (2021). Dosimetrically determined addition of 131I MIBG to PRRT (90Y DOTATOC) for personalized therapy of selected patients with midgut neuroendocrine tumors: Preliminary Phase 1 trial results. Journal of Nuclear Medicine. 62(9):1274-1277. [PMID: 33517327](https://pubmed.ncbi.nlm.nih.gov/33517327/). [PMCID: PMC8882893](https://pubmed.ncbi.nlm.nih.gov/PMC8882893/). [DOI: 10.2967/jnumed.120.254987](https://doi.org/10.2967/jnumed.120.254987)
73. **Zamba, K. D.** & Tsiamyrtzis, P. (2021). Sequential detection framework for real-time biosurveillance based on Shiryayev-Roberts Procedure with illustrations using COVID-19 incidence data. (Vols. 40). (2), pp. 146-169. Sequential Analysis.

Books

1. Hawkins, D., Qui, P. & **Zamba, K. D.** (2007). Change Point Problems. In Encyclopedia of Statistics in Quality and Reliability. John & Wiley.
2. Prybil, L., Levey, S., Peterson, R., Dennis, H., Brezinski, P., Price, J., **Zamba, K. D.** & Roach, W. (2008). A governance in non-profit community health systems. pp. 38 pages. Chicago Illinois: Grant Thornton LLP.
3. Prybil, L., Levey, S., Peterson, R., Brezinski, P., **Zamba, K. D.** & Roach, W. (2008). Governance in high-performing community health systems: A report on Trustee and CEO views. pp. 58 pages. Chicago Illinois: Grant Thornton LLP.

4. Dawson, J. & **Zamba, K. D.** (2021). Establishing and Maintaining Inclusive Pipelines. Leadership and Diversity in Statistics and Data Sciences: Planning for Inclusive Excellence. Springer Nature.

Reviews

1. **Zamba, K. D.** (2008). Review of Statistical Development of Quality in Medicine. *The American Statistician* 64 (4) 359-360.

Non-peer-reviewed journal articles

1. Skinstad, A. H., Wallis, A. B., **Zamba, K. D.** & Gerken, K. (2005). Alcoholism use and abuse in a community sample of woman 60 years of age and over. (Vols. 29). (5), pp. 79A Suppl. S. Alcoholism-Clinical and Experimental Research.
2. **Zamba, K. D.**, Tsiamyrtzis, P. & Hawkins, D. M. (2006). Technical Report: A syndromic surveillance model for influenza-like-illnesses and intentional release of biological agents: Sequential Bayesian control technique.
3. Ahmed, A., DeGeest, K., Lynch, C. & **Zamba, K. D.** (2007). The impact of surgery on survival of elderly women with endometrial cancer in the Surveillance, Epidemiology and end Results Program from 1992 to 2002. (Vols. 104). (3), pp. S27 Suppl. 1. Gynecologic Oncology.
4. Piester, T. L., Meyerholz, D. K., **Zamba, K. D.**, Sokolich, J. C., Jaskille, A. D. & Light, T. D. (2008). The effects of Drotrecogin Alfa (activated) on inflammation and burn depth in a rat burn model. (Vols. 64). (1), pp. 245. Journal of Trauma.
5. **Zamba, K. D.** (2010). Technical Report: A multivariate change point model for change in mean vector and/or covariance structure: Detection of isolated systolic hypertension.
6. **Zamba, K. D.**, Tsiamyrtzis, P. & Hawkins, D. M. (2011). Technical Report: A three-state recursive sequential Bayesian algorithm for biosurveillance.
7. Shamshirsaz, A. A., Buekers, T., DeGeest, K., Bender, D., **Zamba, K. D.** & Goodheart, M. J. (2011). A single institution evaluation of factors important in fallopian tube carcinoma recurrence and survival. International Journal of Gynecological Cancer. [PMID: 21720254](#).

Other Publications

1. **Zamba, K. D.** (2003). Thesis: Issues in Statistical Process Control: Change Point Theory. Advisor: Douglas M. Hawkins.

Research Interests/Current Projects

- Change Point Problems
- Syndromic Surveillance
- Biostatistics
- Cancer
- 6 σ Health Management
- Glaucoma
- Dynamic Processing
- Emphysema
- Sequential Analysis
- Reliability & Recurrence
- Computational Statistics
- Influenza
- Multivariate Statistics

Grants and Contracts

Active (Funded)

1. Alpha-Particle Emitter Peptide Receptor Targeted Radionuclide Therapy for Neuroendocrine Tumors; National Institutes of Health; Zamba, Gideon KD (Co-Investigator), Schultz, Michael (Principal Investigator), Menda, Yusuf (Principal Investigator)
 - R01 CA243014
 - Jun 3, 2019 - May 31, 2025
 - Amount: \$2,855,256.00, 10% effort
 - In this study we propose to develop a new theranostic pair using [203Pb]PSC-TOC imaging) / [212Pb]PSC-TOC (alpha emitter) for image-guided dosimetry based personalized therapy for neuroendocrine tumors.
2. VA IPA Zamba CPTVL Project; US Department of Veterans Affairs, Iowa City Veterans Affairs Medical Center; Zamba, Gideon (Principal Investigator)
 - No Contract #
 - Aug 1, 2024 - Jul 31, 2025
 - Amount: \$13,989.00, 5% effort
3. Cancer Center Support Grant; National Cancer Institute; Zamba, Gideon KD (Co-Investigator), Weiner, George J (Principal Investigator)
 - P30 CA086862
 - Jul 14, 2000 - Mar 31, 2026
 - Amount: \$66,218,492.00, 10% effort
 - This Cancer Center Support Grant is to support the Research activities of the University of Iowa Cancer Center.
4. National American Indian and Alaska Native Trauma TSA Center; SAMHSA; Zamba, Gideon KD (Co-Investigator), Skinstad, Anne (Principal Investigator)
 - H79 SM085092
 - Sep 30, 2021 - Sep 29, 2026
 - Amount: \$3,600,000.00, 5% effort
5. (Iowa ISIB) Summer Institute for Research Education in Biostatistics and Data Science; National Institutes of Health; Zamba, Gideon KD (Principal Investigator)
 - R25 HL161716
 - Mar 1, 2022 - Feb 28, 2027
 - Amount: \$1,280,640.00, 15% effort

Completed

1. A Comparison of Language Intervention Programs-Data Management Center; NIDCD – University of Texas; Zamba, Gideon KD (Co-Investigator), Clarke, William R. (Principal Investigator)
 - Sep 1, 2001 - Aug 31, 2005
 - Amount: \$252,193.00, 14% effort
2. Defective SCN-Secretion Impairs Host Defense in CF; Cystic Fibrosis Foundation; Zamba, Gideon KD (Co-Investigator), Banfi, Botond (Principal Investigator)
 - BANFI07A0
 - Jul 1, 2007 - Dec 31, 2010
 - Amount: \$84,440.00, 5% effort

3. Arm Lymphedema in Female Breast Cancer Cases Diagnosed in Iowa; National Institutes of Health; Zamba, Gideon KD (Co-Investigator), Tsai, Rebecca (Principal Investigator)
 - R03 CA130031
 - Apr 1, 2008 - Mar 31, 2011
 - Amount: \$100,000.00, 0% effort
4. Statistics in Microbiology, Infectious Diseases & Bioinformatics; NIH/NIGMS; Zamba, Gideon KD (Co-Investigator), Chaloner, Kathryn M. (Principal Investigator)
 - T32 GM077973
 - Aug 1, 2006 - Jun 30, 2011
 - Amount: \$96,396.00, 0% effort
 - The goal of this training program is to train biostatisticians to take a leadership role in developing new interdisciplinary scientific research. This will be achieved by providing rigorous training in the disciplines of statistics and microbiology, and also providing interdisciplinary training in bioinformatics. This training program will provide a structure that will strengthen existing collaborations, and train a new generation of biostatisticians to advance biomedical and clinical research
5. Surveillance and Epidemiologic Research of Duchenne and Becker Muscular Dystrophy; Zamba, Gideon K. (Co-Investigator), Romitti, Paul A. (Principal Investigator)
 - UI01/dd000189-02
 - Sep 1, 2007 - Aug 31, 2011
 - Amount: \$583,277.00, 10% effort
6. Vaccine Immunotherapy for Prostate Cancer; US Department of Defense; Zamba, Gideon KD (Co-Investigator), Lubaroff, David (Principal Investigator)
 - W81XWH-07-1-0032 P00002/DOD
 - Apr 15, 2007 - May 14, 2012
 - Amount: \$1,102,802.00, 5% effort
7. Improved Assessment of Visual Field Change IPA for Applied Research; US Dept. of Veteran's Affairs, Iowa City VAMC; Zamba, Gideon KD (Co-Investigator), Wall, Michael (Principal Investigator)
 - May 1, 2010 - Jun 30, 2012
 - 10% effort
8. Evaluation of TeamSTEPPS Implementation for Community Hospital Patient Safety; AHRQ; Zamba, Gideon KD (Co-Investigator), Ward, Marcia M (Principal Investigator)
 - R18 HS018396
 - Sep 30, 2010 - Jul 31, 2016
 - Amount: \$2,464,215.00, 2% effort
 - The objective of this research study is to prospectively evaluate in community hospitals the elements of the TeamSTEPPS approach including organizational readiness, culture, training effectiveness, implementation strategies and fidelity, staff behaviors, burden/cost, and outcomes to identify the elements that are most important for success.
9. Iowa Summer Institute in Biostatistics (ISIB); National Institutes of Health; Zamba, Gideon KD (Principal Investigator)
 - T15 HL097622
 - Aug 20, 2009 - Aug 28, 2016
 - Amount: \$1,368,893.00, 20% effort
 - There is a nationwide shortage of biostatisticians and the shortage is having a negative impact on medical and public health research. The goal of this proposed program is to increase the

number of minority undergraduates who enter graduate programs in Biostatistics or related areas. Instruction will be through case-based instruction of real biomedical research; computer laboratory training; projects; and clinical and translational research enrichment activities.

10. IPA for Applied Research; US Dept. of Veteran's Affairs, Iowa City VAMC; Zamba, Gideon KD (Principal Investigator)
 - No Contract #
 - Oct 1, 2010 - Mar 31, 2017
 - Amount: \$38,148.00, 8% effort
11. Programming of the Open Perimetry Interface; US Department of Veteran's Affairs, Iowa City VAMC; Zamba, Gideon KD
 - VA Contract
 - Mar 1, 2016 - Aug 31, 2017
 - Amount: \$14,017.00, 0% effort
12. Combined Illness Management and Psychotherapy in Treating Depressed Elders; US Dept. of Veteran's Affairs, Iowa City VAMC; Zamba, Gideon KD (Co-Investigator), Turvey, Carolyn (Principal Investigator)
 - 5 R01 MH086482
 - Feb 1, 2011 - Dec 31, 2017
 - Amount: \$382,610.00, 10% effort
13. Image-Guided Diagnosis and Therapy of Neuroendocrine Tumors; National Cancer Institute; Zamba, Gideon KD (Co-Investigator), Menda, Yusuf (Principal Investigator), O'Dorisio, M. Sue (Principal Investigator)
 - R01 CA167632
 - Aug 17, 2012 - Jun 30, 2018
 - Amount: \$2,595,500.00, 5% effort
 - The goals are to determine safety and efficacy of Ga-DOTATOC PET imaging and Y-DOTATOC Therapy in children and adults with neuroendocrine tumors.
14. University of Iowa Strategically Focused Hypertension Research Center; American Heart Association; Zamba, Gideon KD (Statistician), Pierce, Gary (Co-Principal), Santillan, Mark (Co-Principal), Sigmund, Curt (Co-Principal)
 - 15SFRN23480000
 - Apr 1, 2015 - Mar 31, 2019
 - Amount: \$784,508.00, 10% effort
15. Targeted Radionuclide Therapy for Metastatic Melanoma; NIH/ViewPoint Molecular Targeting, LLC; Zamba, KD (Statistician), Schultz, Michael (Principal Investigator)
 - 26120170036C-IA
 - Sep 18, 2017 - Sep 17, 2019
 - Direct Cost: \$253,916.00, 5% effort
16. VA IPA; US Department of Veteran's Affairs, Iowa City VAMC; Zamba, Gideon KD (Principal Investigator)
 - No Contract #
 - Apr 1, 2016 - Sep 30, 2019
 - Amount: \$134,522.00, 20% effort
17. Iowa Summer Institute for Research Education in Biostatistics (ISIREB); National Institutes of Health; Zamba, Gideon KD (Principal Investigator)
 - R25 HL131467
 - Feb 15, 2016 - Jan 31, 2020

- Amount: \$233,111.00, 20% effort
 - This is a proposal to the National Institutes of Health (NIH), National Heart, Lung and Blood Institute (NHLBI), from the University of Iowa, in response to RFA-HL-16-017 for a Summer Institute for Research Education in Biostatistics. The ultimate vision of our proposed research education program is to increase the number of undergraduates who enter graduate programs in Biostatistics and to maintain a solid underrepresented minority pipeline into biostatistics graduate programs. The proposal is for the University of Iowa (UI) Department of Biostatistics to recruit a diverse group of 18 trainees each year, from 2016 to 2018, with focus on minority, underrepresented and disadvantaged students who wouldn't have otherwise been exposed to the field of biostatistics.
18. Neuroendocrine Tumor Specialized Programs of Research Excellence (SPORE) in Human Cancer; National Institutes of Health; Zamba, Gideon KD (Co-Investigator), Quelle, Dawn E (Principal Investigator)
- P50 CA174521
 - Sep 1, 2015 - Aug 31, 2022
 - Amount: \$13,188,567.00, 2% effort
 - A Neuroendocrine tumor SPORE at the University of Iowa will result in advances that have an extraordinarily large clinical impact on the length and quality of life for a rapidly growing population of patients with NETs. The Neuroendocrine Tumor SPORE would 1) support innovative translational research in NETs; 2) provide support to translational investigators through interactive cores; 3) Enlist and encourage new translational researchers in NETs through developmental projects and career development; 4) promote early and accurate diagnosis through outreach to physicians and advocacy groups.
19. Iowa Summer Institute for Research Education in Biostatistics (ISIREB); National Institutes of Health; Zamba, Gideon KD (Principal Investigator)
- R25 HL147231
 - Mar 1, 2019 - Feb 28, 2023
 - Amount: \$757,930.00, 20% effort
 - This is a proposal to the National Institutes of Health (NIH), National Heart, Lung and Blood Institute (NHLBI), from the University of Iowa, in response to RFA-HL-19-019 for an Iowa Summer Institute for Research Education in Biostatistics (ISIREB), Summer Programs 2019, 2020, & 2021.
20. Mental Health Technology Transfer Center - Tribal Affairs Center; Substance Abuse & Mental Health Services Administration; Zamba, Gideon (Co-Investigator), Skinstad, Anne H (Principal Investigator)
- H79 SM081728
 - Aug 15, 2018 - Nov 29, 2023
 - Amount: \$5,736,183.00, 5% effort
 - Major Goals: 1. Provide direct Technical Assistance (TA) and training to AI/AN Project AWARE grantees. 2. Participate in the network wide needs assessment among the AWARE grantees by: a. Provide a few needs assessment questions that directly pertain to AI/AN needs; b. Conduct Key Stakeholder interviews with AI/AN AWARE grantee. 3. Continue dissemination and implementation of the MHTTC SMH Implementation Guidance Modules and Classroom WISE, through a learning collaborative or any other mechanism MHTTC NCO recommends. 4. Develop communication plan to assure every school system in US is AWARE of the MHTTC SMH Implementation Guidance Modules and Classroom WISE. 5. Provide direct technical assistance (TA) and training on the implementation of mental health services in schools and school systems. 6. Provide training/TA on the importance of mental health service provision in schools and linkages to such services where direct provision is not possible.

21. Comparative Effectiveness Research for Neuroendocrine Tumors (CER-NET); PCORI; Zamba, Gideon (Co-Investigator), O'Rorke, Michael (Principal Investigator)

- RD-2020C2-20329
- Jul 1, 2021 - Jul 31, 2025
- Amount: \$5,039,014.00, 10% effort

Presentations

Keynote/Plenary Address

- | | |
|--------------|--|
| Mar 1, 2014 | Zamba, K. D. Another Way to Bring Math to the World and the World to Math. Presented at Seminario Interuniversidad de Investigacion en Ciencias Matematicas, Pontificia Universidad Catolica de Puerto Rico, Ponce, Puerto Rico. |
| Jan 4, 2018 | Zamba, K. D. Utilisation des Techniques Statistiques de Bayes dans la Detections des Aberrations en Bio-Surveillance. Presented at International Conference Sante-Environnement-Communaute, University de Lome, Lome, Africa. |
| Mar 20, 2018 | Zamba, K. D. Aberration Detection in Influenza-like Illnesses' Dynamics: A Bayesian Perspective. Presented at The 5th African International Conference on Statistics, University of Botswana, Botswana, Africa. |
| May 30, 2019 | Zamba, K. D. A Martingale-Transformed Test-of-Fit with ML Estimation in the Presence of Recurrent Events. Presented at The 6th African International Conference on Statistics, Arsi University, Assela/Amada, Ethiopia. |
| May 30, 2019 | Zamba, K. D. A Martingale-Transformed Test-of-Fit with ML Estimation in the Presence of Recurrent Events. Presented at The 6th African International Conference on Statistics, Arsi University, Assela/Amada, Ethiopia. |
| Sep 2019 | Zamba, K. D. Bring Math Back to the World and the World Back to Math. Presented at The 2019 NYC Regional Math Alliance Conference, City College New York, New York City, New York. |
| Sep 21, 2019 | Zamba, K. D. Bring Math Back to the World and the World Back to Math. Presented at The 2019 NYC Regional Math Alliance Conference, City College, New York, New York, New York. |

Invited Lectures

- | | |
|--------------|---|
| Oct 2019 | Zamba, K. D. Lecture on the Role of Statistics in Development. Presented at Masters in Planning and Development/United Nations Sponsored Project, Faculte Des Sciences Economiques et de Gestion, Universite de Kara, Kara, Togo. |
| Oct 2019 | Zamba, K. D. What Brings us to Biostatistics?. University de Kara, Kara, Togo. |
| Oct 30, 2019 | Zamba, K. D. What Brings us to Biostatistics?. Universite de Kara, Kara, Togo. |
| Oct 31, 2019 | Zamba, K. D. The role of Statistics in Development. Faculte des Sciences Economiques et de Gesion, Universite de Kara, Kara, Togo. |

Oral Presentations

- | | |
|------|---|
| 2003 | Zamba, K. D. Some Issues in SPC – Change Point Problem. Department of Biostatistics, University of Iowa, Iowa City, Iowa. |
| 2004 | Zamba, K. D. & Hawkins, D. M. A Change Point Model for Shift in Variance. Presented at INFORMS 2004, Denver, Colorado. |

- 2004 Wallis, A. B. & Zamba, K. D. Predictors for Low Birth Weight for Mexican and Non Mexican Latina Women: Palm Beach County, Florida and Des Moines, Iowa. Presented at International Conference of Urban Health, Boston, Massachusetts.
- 2005 Zamba, K. D. & Hawkins, D. M. A Multivariate Change Point Model for Statistical Control. Presented at Joint Statistical Meetings, Minneapolis, Minnesota.
- 2005 Zamba, K. D. Quality Control Techniques for Disease Monitoring: An Example in the Area of Syndromic Surveillance. Presented at New Researcher Conference, Minneapolis, Minnesota.
- 2005 Zamba, K. D. & Hawkins, D. M. SPC for Shift in Mean or Variance Using the Change Point Formulation—Its Application to Evaluate Samplers. Presented at 2005 Hawaii International Conference on Statistics, Mathematics and Related Fields.
- 2005 Zamba, K. D., Tsiamyrtizis, P. & Hawkins, D. M. Syndromic Surveillance Model for Influenza-Like-Illnesses (ILI) and Intentional Release of Biological Agents Using Sequential Bayesian Technique. Presented at 2005 Quality and Productivity Research Conference, University of Minnesota.
- 2006 Zamba, K. D., Tsiamyrtizis, P. & Hawkins, D. M. Bayesian Analytical Tool for ILI and Detection of Intentional Outbreak. Presented at International Society for Disease Surveillance (ISDS) Conference, Baltimore, Maryland.
- 2006 Dawson, J. D., Cavanaugh, J. E. & Zamba, K. D. Measuring Lateral Control in Driving Studies. Presented at ENAR Spring Meeting, International Biometric Society, Tampa, Florida.
- 2006 Zamba, K. D. Risk Factors of Self-Reported ADE among Medicare Enrollees. Presented at SPHA Midwest Conference, Minneapolis, Minnesota.
- 2007 Dawson, J. D., Cavanaugh, J. E. & Zamba, K. D. Modeling Lateral Position and Control in Driving Studies of Elderly Populations. Presented at 2007 Joint Statistical Meetings, Salt Lake City, Utah.
- 2007 Zamba, K. D. Bayesian Analytical Tool for ILI Control and Detection of Intentional Outbreaks. Department of Biostatistics, University of Iowa, Iowa City, Iowa.
- 2007 Zamba, K. D. The Role of a Biostatistician: Boundless Window of Opportunities. Department of Mathematics and Natural Sciences, Lincoln University, Philadelphia, Pennsylvania.
- 2008 McNamara, A., Piester, L., Meyerholz, D. K., Zamba, K. D., Sokolich, J. C., Jaskille, A. D., Griffin, M. A. & Light, T. D. Apoptosis is Differentially Regulated by Burn Contact Time and Dermal Location in an Acute Thermal Injury Rat Model. Presented at American Medical Association Medical Student Section/Resident-Fellow Section Interim Meeting, Orlando, Florida.
- 2008 Zamba, K. D., Tsiamyrtizis, P. & Hawkins, D. M. Bayesian Analytical Tool for ILI Control and Detection of Outbreaks. Presented at Proceedings, International Conference on Statistics and Mathematical Related Fields, Hawaii.
- 2008 Orion, K., McNamara, A., Piester, L., Myerholz, D. K., Zamba, K. D., Xie, D., Sokolich, J. C., Jaskille, A. D., Michelle, A. & Light, T. D. Drotrecogin Alpha (Activated) Decreases the Adnexa Apoptotic Ratio in Acute Burn Resuscitation. Presented at American College of Surgeons Committee on Trauma Resident Research Competition, Kansas City, Kansas.

- 2008 Orion, K., McNamara, A., Piester, L., Meyerholz, D. K., Zamba, K. D., Sokolich, J. C., Jaskille, A. D., Xie, D. & Light, T. Drotrecogin Alpha (Activated) Decreases the Adnexa Apoptotic Ratio in Acute Burn Resuscitation. Presented at Surgery Postgraduate Conference, Iowa Chapter of the American College of Surgeons Committee on Trauma Resident Research Competition at University of Iowa Carver College of Medicine.
- 2008 Zamba, K. D. & Tsiamyrtizis, P. A Bayesian Analytical Tool for Influenza-Like-Illnesses and Detection of Intentional Releases. Department of Statistics, University of Iowa, Iowa City, Iowa.
- 2009 Tsiamyrtizis, P., Zamba, K. D. & Hawkins, D. M. A Bayesian SPC Approach in Modeling an Epidemic. Presented at International Symposium on Statistical Process Control, Nantes, France.
- 2010 Jacobson, G. M., Buechler-Price, J. L., Betts, V., Muruganandham, M. & Zamba, K. D. Image-Based Treatment Planning of the Post-Lumpectomy Breast utilizing CT and 3T MRI. Presented at 3rd World Congress 2010 Cancer Conference, Shanghai, China.
- 2010 Sullivan, R. M., Zhang, J., Olshansky, B. & Zamba, K. D. Is Risk of Stroke in Atrial Fibrillation Gender Specific due to Differences in Anticoagulation?. Presented at 31st Annual Scientific Sessions, Heart Rhythm Society, Denver, Colorado.
- 2010 Zamba, K. D., Tsiamyrtizis, P. & Hawkins, D. M. Recursive Sequential Bayesian Algorithm for Bio-Surveillance. Presented at Joint Research Conference, NIST, Rockville, Maryland.
- 2010 Wall, M., Doyle, C. K., Zamba, K. D. & Johnson, C. A. The Effect of Stimulus Size on Repeatability in Glaucoma using Goldmann Sizes III V and VI. Presented at 19th Annual Meeting, Imaging and Perimetry Society, Tenerife, Spain.
- 2011 Zamba, K. D. Recursive Dynamic Models: A Bayesian Approach. Presented at Joint Statistical Meetings, Miami Beach, Florida.
- 2011 Zamba, K. D. Recursive Dynamic Models: A Bayesian Approach. Presented at Joint Statistical Meetings, Miami Beach, Florida.
- 2011 Zamba, K. D., Kummert, C., Tamegnon, M., Johnson, C. & Wall, M. Some Statistical Issues in Visual Field Change Detection. Presented at Glaucoma Progression Scholar (GPS) Meeting, Skaneateles, New York.
- 2011 Wall, M., Doyle, C. K., Zamba, K. D. & Johnson, C. A. The Repeatability of MD with Size III and V Standard Automated Perimetry. Presented at Ninth Biennial Meeting, North American Perimetric Society, Skaneateles, New York.
- 2011 Adekpedjou, A. & Zamba, K. D. Chi-Squared Goodness of Fit Test with Recurrent Event Data. Department of Statistics, Kansas State University, Manhattan, Kansas.
- 2011 Adekpedjou, A. & Zamba, K. D. A Chi-Squared Type Goodness of Fit Test for Recurrent Event Data. Presented at Joint Statistical Meetings, Miami Beach, Florida.
- 2011 Yang, M., Zamba, K. D. & Cavanaugh, J. E. Analysis of Zero-Inflated Count Time Series: A Partial Likelihood Approach. Presented at Joint Statistical Meetings, Miami Beach, Florida.
- 2011 Zamba, K. D. Mathematics in Action through Statistics and Biostatistics. Université Catholique de l'Afrique de l'Ouest, UCAO, Lomé, Togo.

- 2011 Yang, M., Zamba, K. D. & Cavanaugh, J. E. Analysis of Zero-Inflated Count Time Series: A Partial Likelihood Approach. Presented at Joint Statistical Meetings, Miami Beach, Florida.
- 2012 Withanage, D. M., Adekpedjou, A. & Zamba, K. D. A Generalized Chi-Squared Goodness of Fit Test for Recurrent Failure Time Data. Presented at Joint Statistical Meetings, San Diego, California.
- 2012 Bhatt, S. P., Hoffman, E., Newell, J. D., Sieren, J. C., Washko, G. M., Stinson, D. & Zamba, K. D. Comparison of Spirometric Thresholds in Diagnosing Smoking Related Airflow Obstruction. Presented at American Thoracic Society International Conference, ATS, Philadelphia, Pennsylvania.
- 2012 Zamba, K. D., Adekpedjou, A., Doyle, C., Johnson, C. & Wall, M. Diffusion Injection Model fo Visual Field Change. Presented at International Visual Field and Imaging Symposium, The University of Melbourne, Victoria, Australia.
- 2012 Yang, M., Zamba, K. D. & Cavanaugh, J. E. Markov Regression Models for Count Time Series with Excess Zeros: A Partial Likelihood Approach. Presented at ENAR Spring Meeting, International Biometric Society, Washington, District of Columbia.
- 2012 Kummet, C., Zamba, K. D., Doyle, C., Johnson, C. & Wall, M. Optimal Pointwise Linear Regression Criteria for Detecting Glaucoma Progression. Presented at International Visual Field and Imaging Symposium, The University of Melbourne, Victoria, Australia.
- 2012 Zamba, K. D., Adekpedjou, A., Doyle, C., Johnson, C. & Wall, M. Performance of a Series of Glaucoma Change Probability Criteria. Presented at International Visual Field and Imaging Symposium, The University of Melbourne, Victoria, Australia.
- 2012 Kawaguchi, E., Harper, K. & Zamba, K. D. Survival Function Estimation with Recurrent Events: Case of Retinal Neural Firing. Presented at ABRCMS, San Jose, California.
- 2012 Wall, M., Doyle, C. K., Zamba, K. D. & Johnson, C. A. The Repeatability of Mean Deviation with Size III and V Standard Automated Perimetry. Presented at International Visual Field and Imaging Symposium, The University of Melbourne, Victoria, Australia.
- 2012 Zamba, K. D. The Work of Biostatisticians: Graduate School Requirements in Biostatistics for Students with Math Background. Presented at SIDIM 2012, UPR Mayaguez, San Juan, Puerto Rico.
- 2012 Adekpedjou, A. & Zamba, K. D. Recurrent Events: Modeling and Inference. Presented at Laboratoire Equipe, Maison de la Recherche, University de Lille 3, Lille, France.
- 2013 Yang, M., Cavanaugh, J. E. & Zamba, K. D. State-Space Models for Count Time Series with Excess Zeros. Presented at ENAR Spring Meeting, International Biometric Society, Orlando, Florida.
- 2013 Zamba, K. D. A Type of Goodness-of-Fit Test in the Presence of Recurrent Events Data. Department of Mathematics and Statistics, University of Maryland at Baltimore County, Baltimore, Maryland.
- 2013 Zamba, K. D. Why Consider Biostatistics for Graduate Studies?. Universidad Metropolitana, San Juan, Puerto Rico.
- May 17, 2013 Bhatt, S. P., Hoffman, E., Newell, J. D., Sieren, J. C., Washko, G. M., Stinson, D. & Zamba, K. D. Comparison of Spirometric Thresholds in Diabnosing Smoking Related Airflow Obstruction. Presented at American Thoracic Society International Conference, American Thoracic Society, Philadelphia, Pennsylvania.

- Aug 2, 2013 Zamba, K. D. A Statistical Test for Distribution Functions in the Presence of Recurrent Event Data: Mathematics Applied to Medicine. Department de Mathematiques, Universte de Lome, Togo.
- Aug 4, 2013 Withanage, D., Adekpedjou, A. & Zamba, K. D. On the Chi-Square Test Based on Randomo Cells with Recurrent Events. Presented at Joint Statistical Meetings, American Statistical Association, Montreal, Canada.
- Aug 7, 2013 Zamba, K. D. & Adragni, K. P. Preparations for Successful Graduate Studies in Mathemataical and Statistical Sciences. Department de Mathematiques, Universite Catholique de l'Afrique de l'Ouest, UCAO Lome, Togo.
- Sep 2013 Cavanaugh, J. E., Yang, M. & Zamba, K. D. Frontiers in Methodological and Applied Statistics: A Celebration of 50 Years of Missouri University Department of Statistiacs. Presented at 50 Years of Statistics, Department of Statistics, University of Missouri, Columbia, Missouri.
- Feb 6, 2014 Zamba, K. D. A Flexible Test for Longitudinal Data: The Case of Recurrent Events. Department of Math and Statistics, Athens University of Economics and Business, Athens, Greece.
- Dec 6, 2014 Adekpedjou, A., Withanage, D. & Zamba, K. D. Chi-Square Test Based on Random Cells with Recurrent Events. Presented at International Conference of the ERCIM WG on Computational and Methodological Statistics, University of Pisa, Pisa, Italy.
- Feb 26, 2015 Zamba, K. D. Applied Mathematics, Biostatistics, and Graduate School. Department of Mathematics & Computational Mathematics, Universidad de Puerto Rico en Humacao, Puerto Rico.
- Apr 6, 2015 Zamba, K. D. Is this Math All there Is? Responding to the Demand for Data-Based Evidence. Department of Mathematics, Kean University, Elizabeth, New Jersey.
- May 3, 2015 Wall, M., Johnson, C. A., Plumb, K. E., Zamba, K. D., Keltner, J. L. & for the NORDIC IIH Study Group Pointwise Visual Field Change in the Idiopathic Intracranial Hypertension Treatment Trial Treatment Failures. Presented at ARVO, Denver, Colorado.
- May 23, 2015 Zamba, K. D. A Signal Detection Approach to Surveillance using Recursive Sequential Bayesian Thinking. Institute of Mathematical Finance, Universitat Ulm, Ulm, Germany.
- May 29, 2015 Zamba, K. D. Assessing Goodness-of-Fit in the Presence of Recurrent Event Data. Laboratoire Equippe, Maison de la Recherche, Universite de Lille 3, France.
- Jan 28, 2016 Zamba, K. D. Data-Driven Sciences: Another Way to Bring Math to the World and the World to the World. Department of Mathematics, University of Hawaii at Manoa, Hawaii.
- Jan 29, 2016 Zamba, K. D. Data-Driven Sciences: Another Way to Bring Math to the World and the World to the World. University of Hawaii at West O'ahu, Hawaii.
- Mar 3, 2016 Zamba, K. D. A Semi Parametric Test for Goodness -of-Fit in teh Presence of Recurrent Event Data. Department of Mathematics, University of Puerto Rico at Mayaguez.
- Mar 14, 2016 Zamba, K. D. A Random Cell Tye Goodness-of-Fit Test in the Presence of Recurrent Event Data. Presented at Cameroon International Conference on Recent Development in Applied Statistics (CICDAS), Yaounde, Cameroon.
- Sep 28, 2016 Zamba, K. D. Useful Dynamic Range of Standard Automated Perimetry for Progression in Glaucoma: Size III and Size V. Presented at 22nd International Visual Field Imaging Symposium, Udine, Italy.

- Nov 7, 2016 Zamba, K. D., Mott, S. L. & Ginader, T. Effect of Treatment and Prognostic Factors on the Development of Subsequent Malignancies following Hodgkin Lymphoma Diagnosis. Presented at Workshop on Statistical Methods for Recurrent Data, Laaboratoire Equipe, Maison de la Recherche, Universite de Lille 3, Lille, France.
- Dec 20, 2016 Li, Q. & Zamba, K. D. Readmission Time Analysis for Psychiatry Patients based on a Chi-Squared Goodness of Fit Test for Recurrent Events. Presented at 10th International Chinese Statistical Association Conference, International Chinese Statistical Association, Shanghai, China.
- Jan 4, 2017 Zamba, K. D. & Parker, E. Aspects of Collaboration towards Global Health Initiative: Overview of the CPH-UI. Presented at Workshop, Universite de Lome and the Centre Omnitherapeutique Africain, Lome, Togo.
- Jan 25, 2017 Zamba, K. D. Applied Mathematics in Action through Biostatistics. Department of Mathematics, University of Hawaii at Hilo, Hilo, Hawaii.
- Jan 27, 2017 Zamba, K. D. A Semiparametric Random-Cell Type Goodness-of-Fit Test when Observations are Recurrent. Department of Mathematics, University of Hawaii at Manoa, Manoa, Hawaii.
- Jan 27, 2017 Zamba, K. D. Applied Mathematics in Action through Biostatistics. Department of Mathematics, University of Hawaii at Manoa, Manoa, Hawaii.
- Mar 20, 2017 Zamba, K. D. Confidence Bands Estimation for the Quantile Process in the Presence of Recurrent Event Models. Presented at The 4th African International Conference on Statistics, New Methods of Data Analysis and Statistical Applications to Big Data, University of Limpopo, South Africa.
- Apr 2, 2017 Wall, M., Zamba, K. D. & Artes, P. The Useful Dynamic Ranges for Visual Field Progression with Stimulus Size III and V. Presented at The 43rd Annual Meeting, North American Neuro-Ophthalmology Society, Washington, District of Columbia.
- May 8, 2017 Wall, M., Zamba, K. D. & Artes, P. The Effective Dynamic Ranges for Visual Field Progression with Standard Automated Perimetry with Stimulus Sizes III and V. Presented at Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Baltimore, Maryland.
- Jun 26, 2017 Li, Q. & Zamba, K. D. Readmission Time Analysis for Psychiatry Patients based on a Cox Intensity Process Model for Recurrence. Presented at 2017 International Chinese Statistical Association Applied Statistics Symposium, Chinese Statistical Association, Chicago, Illinois.
- Aug 1, 2017 Li, Q. & Zamba, K. D. Hospital Readmission Time Analysis based on a Chi-Square Goodness of Fit Test for Recurrent Events. Presented at Joint Statistical Meetings, American Statistical Association, Baltimore, Maryland.
- Aug 2, 2017 Zamba, K. D. A Step Toward Useful Research Collaboration with Heavy Teaching Load Institutions. Presented at Panel Discussion: Joint Statistical Meetings, American Statistical Association, Baltimore, Maryland.
- Jan 18, 2018 Zamba, K. D. Recurrence of Subsequent Malignancies following the Diagnosis of and the Treatment for Hodgkin Lymphoma. Department of Mathematics, University of Hawaii at Manoa, Manoa, Hawaii.
- Jan 19, 2018 Zamba, K. D. Recurrence of Subsequent Malignancies following the Diagnosis of and the Treatment for Hodgkin Lymphoma. Department of Mathematics, University of Hawaii at West O'ahu, West O'ahu, Hawaii.

- May 12, 2018 Zamba, K. D., Ahrens, M., Carter, K. & Wall, M. Divergence Measures between Normal Subjects and Glaucoma Patients with Mild Visual Loss using Threshold Automated Perimetry of the Full Visual Field. Presented at 23rd International Visual Field and Imaging Symposium, Ishikawa Ongakudo, Kanazawa, Japan.
- Sep 15, 2018 Zamba, K. D. Data-Driven Inference: A Closer Look at the Mathematical Sciences. Presented at New York City Regional Math Alliance Conference, Kean University, New Jersey.
- Jan 17, 2019 Zamba, K. D. Applied Mathematics in Action through Biostatistics: A Closer Look at the Mathematical Sciences. University of Hawaii at Manoa, Honolulu, Hawaii.

Posters

- 2005 Skinstad, A. H. & Zamba, K. D. Alcohol Use and Abuse in a Community Sample of Caucasian Women 60 Years of Age and Over. Presented at 28th Annual Meeting, Research Society on Alcoholism, Santa Barbara, California.
- 2005 Zamba, K. D. & Tsiamyrtizis, P. Analytical Syndromic Surveillance Tool for ILL and Intentional Release of Biological Agents. Presented at 2005 Syndromic Surveillance Conference, Seattle, Washington.
- 2007 Piester, T. L., Meyerholz, D. K., Zamba, K. D., Sokolich, J. C., Jaskille, A. D. & Light, T. D. The Effects of Xigris on Inflammation and Burn Depth in a Rat Burn Model. Presented at Medical Student Research Day, College of Medicine, University of Iowa, Iowa City, Iowa.
- 2008 Tsiamyrtizis, P., Zamba, K. D. & Hawkins, D. M. A Sequential Bayesian Control Model for Influenza-Like Illnesses. Presented at Bayesian Biostatistics, Houston, Texas.
- 2008 Piester, T. L., Meyerholz, D. K., Zamba, K. D., Sokolich, J. C., Jaskille, A. D. & Light, T. D. The Histologic Effects of Drotrecogin Alfa (Activated) on Inflammation and Burn Depth in a Rat Burn Model. Presented at Proceedings of 2008 Western Trauma Meeting, Squaw Creek, California.
- 2010 Davis, C., Zamba, K. D., Doyle, C. K., Sherman, K., Johnson, C. & Wall, M. Bigger is Better: Larger Stimulus Sizes Reduce Test-Retest Variability and Maintain Sensitivity in Visual Field Testing of Glaucoma Patients. University of Iowa, Iowa City, Iowa.
- 2011 Grout, R. W., Iyer, K. S., Egbert, B. P., Burnette, N., Zamba, K. D. & Hoffman, E. A. Airway Metric Intra-Subject Repeatability on MDCT Imaging for Normal Smokers and Non-Smokers. Presented at American Thoracic Society, ATS, Denver, Colorado.
- 2011 Hasagawa, M., Burnette, N. E., Zamba, K. D., Xie, D. & Hoffman, E. A. Atlas of Normal Human Lung: Exploring Gender Difference in Lung Parenchymal Metrics. American Thoracic Society, Denver, Colorado.
- 2011 Davis, C., Zamba, K. D., Doyle, C. K., Sherman, K., Johnson, C. & Wall, M. Bigger is Better: Larger Stimulus Sizes Reduce Test-Retest Variability in Visual Field Testing of Glaucoma Patients. Presented at ARVO 2011, Fort Lauderdale, Florida.
- 2011 Iyer, K. S., Grout, R. W., Burnette, B., Zamba, K. D. & Hoffman, E. A. Intra-Subject Repeatability of CT-Based Lung Density Measures following Single Breath-Hold Scans. Presented at American Thoracic Society, ATS, Denver, Colorado.
- 2011 Grout, R. W., Iyer, K. S., Burnette, N., Wilson, J. M., Zamba, K. D. & Hoffman, E. A. Repeatability of a Standardized CT-Based Metric, Pi10, Used as an Index of Airway Wall Remodeling. Presented at American Thoracic Society, ATS, Denver, Colorado.

- 2011 Doyle, C. K., Zamba, K. D., Johnson, C. A., Artes, P. & Wall, M. Repeatability of Mean Deviation with Size III and Size V Standard Automated Perimetry. Presented at ARVO 2011, Fort Lauderdale, Florida.
- 2011 Zamba, K. D., Doyle, C. K., Tamegnon, M., Johnson, C. A. & Wall, M. Sensitivity Analysis of a Series of Glaucoma Change Probability Criteria. Presented at ARVO 2011, Fort Lauderdale, Florida.
- 2012 Wall, M., Doyle, C. K., Eden, T. L., Johnson, C. A. & Zamba, K. D. Detection of Glaucomatous Progression using Stimulus Size V. Presented at ARVO, Fort Lauderdale, Florida.
- 2012 Zamba, K. D. Diffusion Injection Model for Visual Field Change. Presented at ARVO, Fort Lauderdale, Florida.
- 2012 Doyle, C. K., Eden, T. L., Zamba, K. D., Johnson, C. A. & Wall, M. Size Threshold Perimetry Performs as well as Standard Perimetry with Stimulus Sizes III, V, and VI for Glaucoma Detection. Presented at ARVO, Fort Lauderdale, Florida.

Panels

- 2013 Zamba, K. D. & Mitchell, C. The Professions of Mathematical Biology and Biostatistics, 'Tu Futuro en las Matematicas'. Universidad Metropolitana, San Juan, Puerto Rico.

Service

Professional Service

Professional Organizations

- 2003 - 2008 American Mathematical Association, Member
- 2006 - 2008 Statistical Research Committee, International Society for Disease Surveillance, Co-Chair
- 2006 - 2008 Statistical Research Committee, International Society for Disease Surveillance, Co-Chair
- 2002 - Present Institute of Mathematical Statistics, Member
- 2005 - Present International Society for Disease Surveillance, Member
- 2007 - Present International Biometric Society (ENAR), Member
- 2008 - Present The Iowa Society for Quality, Member
- 2008 - Present American Society for Quality, Member
- 2011 - Present International Perimetry Society, Member

Journal Reviews/Referee Manuscripts

- 2004 - Present Agricultural, Biological, and Environmental Statistics, Reviewer
- 2004 - Present Chance, Reviewer
- 2004 - Present Computational Statistics, Reviewer
- 2004 - Present Computational Statistics and Data Analysis, Reviewer
- 2004 - Present Journal of Applied Statistics, Reviewer

| | |
|----------------|---|
| 2004 - Present | Journal of Quality Technology, Reviewer |
| 2004 - Present | Quality Engineering, Reviewer |
| 2004 - Present | South African Journal of Statistics, Reviewer |
| 2004 - Present | Statistical Methodology, Reviewer |
| 2004 - Present | Statistics in Medicine, Reviewer |
| 2004 - Present | Technometrics, Reviewer |
| 2004 - Present | The American Statistician, Reviewer |

Review Panels

| | |
|----------------|---|
| 2019 - Present | Biomedical Methods and Research Design, National Institutes of Health, Member |
|----------------|---|

Organize Conferences, Sessions, etc.

| | |
|------|---|
| 2005 | New Researcher's Conference Paper Session, Institute of Mathematical Statistics, Co-Chair |
| 2010 | National Institute for Standard Technology (NIST), Joint Research Conference on New Advances in Statistical Process Control, Maryland, Session Co-Organizer |
| 2016 | 3rd African International Conference in Sattistics; Cameroon International Conference on Recent Development in Applied Statistics (CICDAS), Yaounde, Cameroon, Program and Organizing Committee |
| 2016 | Workshop on Statistical Methods for Recurrent Data, University of Lille, Laboratoire Equipe, Maison de la Recherche, Lille, France, Program Committee |
| 2016 | 10th International Chinese Statistical Association Conference, Shanghai, China, Session Organizer and Session Chair |
| 2017 | Universite de Lome and Centre Omnitherapeutique Africain, Workshop on Global Health Initiative and Collaboration, Lome, Togo, Program Chair and Organizer |
| 2017 | University of Limpopo, 4th African International Conference in Statistics; New Methods of Data Analysis and Statistical Applications to Big Data, Limpopo, South Africa, Program and Organizing Committee |
| 2018 | International Conference Sante-Environnement-Communaute, Universite de Lome, Lome, Togo, Program Chair |
| 2018 | Applied Probability and Statistical Inference I, 9th International Workshop on Applied Probability, Budapest, Hungary, Session Chair |

Professional Consulting

| | |
|----------------|--|
| 1997 - 1998 | On Line QC, Boston Scientific-Scimed, QC Operator |
| 2020 | University of Pretoria, Pretoria, South Africa, Examiner of Doctoral Thesis in Statistics |
| 2004 - Present | Biostatistics Consulting Center, College of Public Health, University of Iowa, Biostatistics Consultant |
| 2006 - Present | Reveiwed 272 Study Protocols in Cancer Research (prior to August 2017), including local University of Iowa Investigator-Initiated Projects and National and International Corporate Group Projects |

| | |
|----------------|---|
| 2009 - Present | National Alliance for Doctoral Studies in the Mathematical Sciences, Statistics and Biostatistics Doctoral Mentor |
| 2019 - Present | Scientific Program and Steering Committee, Masters Program in Planning and Development/Universite de Kara, Kara, Togo, Member |
| 2019 - Present | Curriculum and Steering Committee, Bachelor of Science Program in Applied Statistics to Social Science/Universite de Kara, Kara, Togo, Member |

Other

| | |
|----------------|--|
| 2014 | Mayo Clinic, Rochester, Minnesota, Reviewer, Promotion and Tenure |
| 2016 | University of Florida, Reviewer, Promotion and Tenure |
| 2018 | University of Hawaii at Manoa Office of Public Health Studies, Evaluated Promotion and/or Tenure Dossier for Faculty |
| 2019 | Promotion and Tenure Committee/Department of Mathematics and Statistics, Air Force Institute of Technology, Ohio, Member |
| 2019 | Department of Mathematics and Statistics at the Air Force Institute of Technology (AFIT), Ohio, Evaluated Promotion and/or Tenure Dossier for Faculty |
| 2016 - Present | Savannah State University, Savannah, Georgia, Advisor for the MARC Scholar Program Advisory Board |
| 2018 - Present | Sequential Analysis (Statistical Journal), Associate Editor |
| 2019 - Present | Scientific Program and Steering Committee/Master's Program in Planning and Development, Faculte Des Sciences Economiques at de Gestion/University de kara, Kara, Togo, Member |
| 2019 - Present | Curriculum and Steering Committee/Bachelor of Science Program in Applied Statistics to Social Science, Faculte Des Sciences Economiques et de Gestion/University de Kara, Kara, Togo, Member |

University, College, Department Service

University

| | |
|----------------|--|
| 2006 - 2019 | HCCC Data Safety Monitoring Board, Member |
| 2006 - 2019 | HCCC Protocol Review Board, Member |
| 2008 - Present | Iowa Summer Institute in Biostatistics, College of Public Health, University of Iowa, Director |
| 2008 - Present | University of Iowa AGEP Advisory Board, Member |
| 2011 - Present | University of Iowa Coordinating Council on STEM, Member |
| 2020 - Present | CPH Epi HCCC Cancer Center Epidemiology Search Committee, Member |

College

| | |
|-------------|--|
| 2005 - 2006 | CPH MPH Curriculum Committee, Member |
| 2005 - 2006 | CPH MPH Steering Committee, College of Public Health, University of Iowa, Member |
| 2007 - 2008 | CPH Diversity Committee, Member |
| 2009 - 2012 | CPH Faculty Council, College of Public Health, University of Iowa, Member |

| | |
|----------------|--|
| 2014 | CPH Curriculum Innovations Committee, Member |
| 2014 - 2017 | CPH Diversity Committee, Member |
| 2014 - Present | CPH Undergraduate Curricula Innovation Committee, Member |
| 2019 - Present | CPH CBH DEO Search Committee, Member |
| 2020 - Present | CPH Epi Faculty Search, Member |

Department

| | |
|---------------------|---|
| 2004 - 2005 | Biostatistics Student Awards Committee, College of Public Health, University of Iowa, Chair |
| 2007 - 2008 | Biostatistics Departmental Self-Study Committee, College of Public Health, University of Iowa, Member |
| 2007 - 2008 | Biostatistics Faculty Search Committee, College of Public Health, University of Iowa, Member |
| 2007 - 2008 | Biostatistics MPH Committee, University of Iowa Department of Biostatistics, Member |
| 2007 - 2008 | Biostatistics Self Study Committee, Member |
| 2011 - 2012 | Biostatistics Search Committee, University of Iowa Department of Biostatistics, Member |
| 2016 - 2017 | Biostatistics Peer Review Committee for Tenure and Promotion to Associate Professor, Member |
| 2004 - 2019 | Biostatistics Computing Committee, College of Public Health, University of Iowa, Member |
| 2004 - 2019 | Biostatistics MS Exam Committee, Chair Fall 2009, College of Public Health, University of Iowa, Member |
| Sep 2020 - Aug 2021 | Promotion and Tenure Internal Peer Evaluation Committee #2, Chair |
| Sep 2021 - Aug 2022 | Promotion and Tenure Internal Peer Evaluation Committee #1, Member |
| Sep 2022 - Aug 2023 | Ph.D. Comprehensive Exam Steering Committee (Summer 2023), Chair |
| 2004 - Present | Biostatistics Student Awards Committee, College of Public Health, University of Iowa, Member |
| 2007 - Present | Biostatistics Admissions and Student Recruitment Committee, College of Public Health, University of Iowa, Member |
| 2007 - Present | Biostatistics Diversity, Equity, and Inclusion Committee, College of Public Health, University of Iowa, Chair, 2017-present |
| 2015 - Present | Biostatistics Ph.D. Comprehensive Exam Steering Committee (Summer), Chair, 2017-2019 |
| 2018 - Present | Ph.D. Comprehensive Examination Review Committee, Member |
| 2019 - Present | Biostatistics Student Awards Committee, Member |
| Sep 2020 - Present | Ph.D. Comprehensive Exam Steering Committee, chair 2021-2022, Chair |
| Sep 2021 - Present | Biostatistics AI Certificate Task Force, Chair |