Richard J. Charnigo, Jr., Ph.D.
Short Resume – February 2026

Contact information

Cell phone: My cell phone number is available upon reasonable request.
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Website: https://www.richardcharnigo.net
A 38-page curriculum vitae may be retrieved from my website.
LinkedIn: https://linkedin.com/in/richard-charnigo-50268b3b3/
References: Names and e-mail addresses of references are available upon reasonable request.

Full-time employment

University of Kentucky, Lexington KY	2003-present
Professor of Biostatistics (tenured)	2013-present
Associate Professor of Biostatistics (tenured)	2009-2013
Assistant Professor of Biostatistics	2003-2009

Actuarial exams

Passed[1] the Society of Actuaries Financial Mathematics (FM) Exam (1st attempt)	February 2026
Passed the Society of Actuaries Probability (P) Exam (score 09, 1st attempt)	September 2025

Education

Case Western Reserve University, Cleveland OH

Ph.D., Statistics	2003
M.S., Mathematics	1999
B.S. Mathematics (minors in Economics and Statistics)	1997

Skills/knowledge

- Technical/scientific writing

  I have co-authored approximately 200 publications; several are listed at the end of this resume. Some of the publications focus on statistical theory and methodology, but many pertain to preclinical or clinical research in cardiovascular health. Other areas of focus include Alzheimer's disease, substance misuse, and pediatrics.
- Statistical modeling/analysis

  Methods I can employ include analysis of variance, linear regression, logistic regression, proportional odds and generalized logit modeling, Poisson and negative binomial regression, linear and generalized linear mixed modeling, generalized estimating equations, proportional hazards modeling, group-based trajectory modeling, and multiple imputation. I am willing to learn to use other modeling and analysis techniques; to that end, my training and experience can help me read statistical literature and software documentation.
- Statistical computing/programming

  I have used R, SAS, and Excel for many years. More recently, I have become acquainted with SQL and Python. Two written demonstrations of SQL, shared with some of my students at the University of Kentucky, are available from my website. In Spring 2025, I learned and taught a little

[1] "A preliminary analysis of your test results shows that you were successful in achieving the passing score … your official score report will be available … approximately eight weeks after the exam administration."

bit of JAGS in a special topics course on Bayesian biostatistics; materials from that course are also posted on my website. In the past, I have used SPSS, Matlab, and Mathematica.

- Collaboration

  I have been able to work with many people, both as a research collaborator and as a participant in shared governance at the University of Kentucky. I was an elected member of the Senate Council (executive body of the University Senate) from 2020 to 2022.

Leadership

- Chair of University Faculty Appeals Committee, Fall 2023 and Winter 2025
- Chair of University Senate's Calendar Committee, 2022-2024
- Chair of University's Health Care Clinical Sciences Area Committee, 2021-2024
- Chair of Biostatistics Department Self-Study Committee, 2023-2024
- President, Beta Gamma Chapter of Delta Omega Honorary Society, 2019-2021
- Chair of Biostatistics Department, Spring and Summer 2017

Honors/awards

- University Senate's Outstanding Senator Award, 2023
- Most Productive Faculty Mentor, Public Health Showcase, 2023
- Teachers Who Made a Difference, honoree, 2017
- University Research Professorship, 2014-2015

Other items

- Involved in approximately 40 funded projects (many supported by the National Institutes of Health)
- Co-developer of 4 courses, including "Data Mining in Public Health"
- Mentor or statistical advisor for 6 faculty colleagues
- Dissertation advisor for 19 (and co-advisor for 2) Ph.D. students
- Supervised or acquired support for 18 student research assistants
- Facilitator of approximately 60 responsible conduct of research sessions
- Associate editor, *Journal of Applied Statistics*, 2017-present
- Part-time pianist, St. Ladislas Parish in Westlake, OH, 1990-2002

Selected publications

- Charnigo, Richard; Guglin, M. (2017). "Obesity Paradox in Heart Failure: Statistical Artifact, or Impetus to Rethink Clinical Practice?" *Heart Failure Reviews*: Volume 22, pp. 13-23.
- Sexton, T.; Zhang, G.; Macaulay, T.; Callahan, L.; Charnigo, Richard; Vsevolozhskaya, O.; Li, Z.; Smyth, S. (2018). "Ticagrelor Reduces Thromboinflammatory Markers in Patients with Pneumonia." *Journal of the American College of Cardiology - Basic to Translational Science*: Volume 3, pp. 435-449.
- Appiah, F.; Charnigo, Richard (2021). "A Comparison of Methods for Predicting Future Cognitive Status: Mixture Modeling, Latent Class Analysis, and Competitors." *Alzheimer's Disease & Associated Disorders*: Volume 35, Issue 4, pp. 306-314.
- Liu, S.; Charnigo, Richard (2023). "Tuning Parameter Selection for Nonparametric Derivative Estimation in Random Design." *Statistics*: Volume 57, pp. 1402-1425.
- Bada, H.; Westgate, P.; Sithisarn, T.; Yolton, K.; Charnigo, Richard; Pourcyrous, M.; Tang, F.; Gibson, J.; Shearer-Miller, J.; Giannone, P.; Leggas, M. (2024). "Clonidine as Monotherapy for Neonatal Opioid Withdrawal Syndrome: A Randomized Trial." *Pediatrics*: Volume 154, Article e2023065610.
- Adatorwovor, R.; Ogunsanya, M.; Huang, B.; Charnigo, Richard; Abraham, O. (2025). "Comparison of Machine Learning Methods for Colon Cancer Survival: Predictive Modeling Approach." *JMIR Cancer*: Volume 11, Article e72665.