

David-Erick Lafontant, PhD

College of Public Health Curriculum Vitae

Department of Biostatistics

david-erick-lafontant@uiowa.edu

(319) 384-4160

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Educational and Professional History

Degrees Earned

2011	BA in Mathematical Sciences, Kean University, Union NJ
2013	MS in Biostatistics, University of Iowa, Iowa City IA
2024	PhD in Biostatistics, University of Iowa, Iowa City IA

Employment History

2008 - 2009	Mathematics Tutor, EEO Department, Kean University, Union, NJ
2010	Summer Internship on Electronic Data Patterns in Vehicles Involved in Unsafe Outcomes
2011	Academic Specialist, Tutor, and Mentor, Project Adelante, Kean University, Union, NJ
2011 - 2012	Teaching Assistant, Biostatistics in College of Public Health, University of Iowa,
2013	Statistician/Biostatistician, College of Dentistry, University of Iowa, Iowa City, IA Temporary position
2012 - 2013	Programmer/Analyst and Research Assistant, Center for Public Health Statistics, University of Iowa, Iowa City, IA
2013 - 2024	Biostatistician, Clinical Trials Statistical and Data Management Center, University of Iowa, Iowa City, IA
2024 - Present	Clinical Assistant Professor, Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, IA

Honors and Awards

2010	Alpha Sigma Lambda Honors Society
2010	Third Place, Undergraduate Poster Competition SHPE Conference
2010	Awarded Alliance Scholarship
2009 - 2011	Awarded, Patricia M. Barksdale Scholarship
2017	Statistically Significant Staff Award
2017	Selected for Delta Omega Honorary Society in Public Health SP/FA
2022	Travel Award, Society for Clinical Trials
2023	Publication named one of the two top picks of the year for advances in Movement Disorders

- 2024 Advancing Graduate Student Success Award, College of Public Health, University of Iowa, Iowa City, IA
- 2024 Dr. Carol S. Gleich Development Award, College of Public Health, University of Iowa, Iowa City, IA

Scholarship/Professional Productivity

Publications or creative works

Peer-reviewed papers and journal articles

1. Chakraborty G., Thumpayil S., **Lafontant D.E.**, Woubneh W., Toney J. (2009). "Age-dependence of glucose tolerance in adult KK-Ay mice: a model of non-insulin-dependent diabetes mellitus." *Lab Animal*, 38, 364-368. DOI: <https://doi.org/10.1038/labani1109-364>
Article featured on journal cover
2. Ricordi C., Goldstein J., Balamurugan A., Szot G., Kin T., Liu C., Czarniecki C., Barbaro B., Bridges N., Cano J., Clarke W., Eggerman T., Hunsicker L., Kaufman D., Khan A., **Lafontant D.E.**, Linetsky E., Luo X., Markmann J., Najj A., Korsgren O., Oberholzer J., Turgeon N., Brandhorst D., Chen X., Friberg A., Lei J., Wang L., Wilhelm J., Willits J., Zhang X., Hering B., Posselt A., Stock P., Shapiro J. (2016) "National Institutes of Health–Sponsored Clinical Islet Transplantation Consortium Phase 3 Trial: Manufacture of a Complex Cellular Product at Eight Processing Facilities." *Diabetes*. 65(11):3418–3428. DOI: <https://doi.org/10.2337/db16-023>
3. Simuni T., Fiske B., Merchant K., Coffey C., Klingner E., Caspell-Garcia C., **Lafontant D.E.** (March 1, 2021). "Efficacy of Nilotinib in Patients With Moderately Advanced Parkinson Disease: A Randomized Clinical Trial." *Journal of the American Medical Association*. 78(3), 312-320. DOI: 10.1001/jamaneurol.2020.4725
4. Russo M., Orru C., Concha-Marambio L., Giaisi S., Groveman B., Farris C., Holguin B., Hughson, A., **Lafontant D.E.**, Caspell-Garcia C., Coffey C., Mollon J., Hutten S., Merchant K., Heym R., Soto C., Caughey B., Kang U. (November 6, 2021). "High diagnostic performance of independent alpha-synuclein seed amplification assays for detection of early Parkinson's disease." *Acta Neuropathologica Communications*, 9(1), 179, 2021. DOI: 10.1186/s40478-021-01282-8
5. Picillo M., **Lafontant D.E.**, Bressman S., Caspell-Garcia C., Coffey C., Cho H., Burghardt E., Dahodwala N., Saunders-Pullman R., Tanner C., Amara A. (January 1, 2022). "Sex-Related Longitudinal Change of Motor, Non-Motor, and Biological Features in Early Parkinson's Disease." *Journal of Parkinson's Disease*. 421–436. DOI:10.3233/JPD-212892
For the Parkinson's Progression Markers Initiative
6. Brumm M., Pierz K., **Lafontant D.E.**, Caspell-Garcia C., Coffey C., Siderowf A., Marek K. (February 2023). "Updated Percentiles for the University of Pennsylvania Smell Identification Test in Adults 50 Years of Age and Older." *Neurology*, DOI: 10.1212/WNL.0000000000207077
7. Siderowf A., Concha-Marambio L., **Lafontant D.E.**, Farris C., Ma Y., et al. (May 2023). "Assessment of heterogeneity and disease onset in the Parkinson's Progression Markers Initiative (PPMI) cohort using the α -synuclein seed amplification assay: a cross-sectional study." *Lancet Neurology*, DOI: 10.1101/2023.02.27.23286156
8. **Lafontant D.E.** and Cho H., "Recursive clustering by heterogeneity of repeated measures (R-CHRM): A strategy for detecting dynamically changing data clusters". *ENAR*.
9. **Lafontant D.E.** and Cho H., "Identification and Evaluation of dynamic treatment regimes and their effects on clinical outcomes". *JSM*

Grants and Contracts

Active (Funded)

1. Parkinson's Progression Markers Initiative (PPMI), The Michael J. Fox Foundation for Parkinson's Research
 - 2017 - Present
2. The Fibromyalgia Transcutaneous Electrical Nerve Stimulation (TENS) in Physical Therapy, National Institutes of Health
 - 2021 - Present

Completed

1. Care for Yourself
 - 2011 - 2013
2. Iowa Health Factbook
 - 2011 - 2013
3. WISEWOMAN, CDC Division for Heart Disease and Stroke Prevention
 - 2011 - 2013
4. Data Patterns of Simulator Training in Drivers with Parkinson's Disease
 - 2012 - 2013
5. Clinical Islet Transplantation Consortium
 - 2013 - 2018
6. Nilotinib in Parkinson's Disease (NILO-PD)
 - 2017 - 2019

Presentations

Oral Presentations

Jan 2010	Lafontant D.E. Electronic Data Patterns in Vehicles Involved in Unsafe Outcomes. Iowa Summer Institute in Biostatistics (ISIB)
Jan 2013	Lafontant D.E. Data Patterns of Simulator Training in Drivers with Parkinson's disease. University of Iowa, College of Public Health
Jan 2014	Lafontant D.E. PROC Template, The Best Way to Produce Reports, University of Iowa, College of Public Health
Jan 2015	Lafontant D.E. PROC Report, A better way to display data. University of Iowa, College of Public Health,
Jan 2019	Lafontant D.E. R, Intro to Tidyverse. CTSDMC University of Iowa, College of Public Health,
Jan 2024	Lafontant D.E. Recursive Clustering by Heterogeneity of Repeated Measures. ENAR
Jan 2024	Lafontant D.E. Identification of Dynamic Treatment Regimes and Evaluation of their effect of clinical outcomes. Joint Statistical Meetings

Posters

- Jan 2009 Lafontant D.E. Analysis of the design and efficiency of the Umbrella and the Panel Solar Cookers and an introduction of new solar cooker designs and efficiency - An application of science in human rights. American Association for Advancements in Science (AAAS)
Also presented at Society of Hispanic Professional Engineers SHPE Conference
- Jan 2010 Lafontant D.E. Electronic Data Patterns in Vehicles involved in Unsafe Outcome. Society of Hispanic Professional Engineers (SHPE) Conference, Cincinnati, OH