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Degrees

1987 Ph.D., University of Chicago, Illinois
1986 M.S., Statistics, University of Chicago, Chicago, Illinois, United States
1983 B.A., Mathematics, Calvin College, Grand Rapids, Michigan, United States

Professional Licensures and Certifications

Professional Statistician by the American Statistical Association (pstat), 2012, American Statistical Association

Work Experience

2008 - 2008 Aug 2008 to Apr 2009

Scholarly Contributions and Creative Productions

Article

Completed/Published

- Vos, P., & Holbert, D. (2022). Frequentist statistical inference without repeated sampling. *Synthese*, 200(2), 89. [Diversity, Equity, & Inclusion : No]
- Vos, P. (2021). Paul Vos's contribution to the Discussion of "Testing by betting: A strategy for statistical and scientific communication" by Glenn Shafer. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 184(2), 461-462. [Diversity, Equity, & Inclusion : No]
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- Hall, M. B., Vos, P., Bess, J., Reburn, K., Locklear, G., McAlister, J., & Bell, R. (2020). Abstract B107: Cervical cancer screening behaviors and perceptions of medical mistrust among rural Black and White women. *Cancer Epidemiology and Prevention Biomarkers*, 29(6 Supplement 1), B107-B107.
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- Vos, P. (1995). QUASI-LIKELIHOOD OR EXTENDED QUASI-LIKELIHOOD? AN INFORMATION-GEOMETRIC APPROACH. *Annals of the Institute of Statistical Mathematics* *47*, 49-64.
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- Vos, P. (1991). A GEOMETRIC APPROACH TO DETECTING INFLUENTIAL CASES. *Annals of Statistics*, *19*, 1570-1581.
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- Vos, P. (1989). FUNDAMENTAL EQUATIONS FOR STATISTICAL SUBMANIFOLDS WITH APPLICATIONS TO THE BARTLETT CORRECTION. *Annals of the Institute of Statistical Mathematics* *41*, 429-450.

Accepted

Lee, C. W., Lee, T. D., Dickerson, D. L., Castles, R. T., & Vos, P. (2021). Comparison of Peer-to-Peer and

Revise & Resubmit

Gallagher, J. L., Goodwin, G., Lee, T. D., Newton, M. H., Lee, C. W., Vos, P., & Dickerson, D. L. L. (2021). Moving Science Talk Towards Students: Analyzing teacher candidates' utilization of funds of knowledge talk moves in peer to peer versus augmented simulation experiences. *Journal for Science Teacher Education*. [Diversity, Equity, & Inclusion : Yes]

Submitted

Gallagher, J. L., Goodwin, G., Lee, T. D., Newton, M. H., Lee, C. W., Vos, P., & Dickerson, D. L. L. (2021). Moving Science Talk Towards Students: Analyzing teacher candidates' utilization of funds of knowledge talk moves in peer to peer versus augmented simulation experiences. *Journal for Science Teacher Education*. [Diversity, Equity, & Inclusion : Yes]

Lee, T. D., Lee, C. W., Newton, M. H., Gallagher, J. L., Vos, P., Dickerson, D. L. L., & Regenthal, C. (2021). Rehearsal Contexts (Peer to Peer vs. Virtual Rehearsal Simulation): Elementary Teacher Candidates' Scientific Discourse Skills Explored. *Journal of Science Teacher Education*. [Diversity, Equity, & Inclusion : Yes]

In Progress

Lee, C. W., Lee, T. D., Dickerson, D. L. L., Gallagher, J. L., Newton, M. H., & Vos, P. (2022). Comparison of Virtual Rehearsal Simulations and Peer-to-Peer Rehearsals in Eliciting Student Thinking through Number Talks. *Mathematics Teacher Educator*. [Diversity, Equity, & Inclusion : No]

Moore, S. A., Gallagher, J. L., Newton, M. H., Vos, P., Lee, T. D., Lee, C. W., Fales, H., & Dickerson, D. L. (2021). Extending the Utility of STEM Education Focused Immersive Classroom Simulation Activities (ICSA) to Address Implicit Bias Understandings and Improve ICSA Model Development. *TBD*. [Diversity, Equity, & Inclusion : Yes]

Book

Completed/Published

Kass, R. E., & Vos, P. W. (2008). *The Science of Bradley Efron: Selected Papers* (pp. 32-37). Springer.

Vos, P. (1997). *Wiley Series in Probability and Statistics*

Chapter

Completed/Published

Ahmed, F. E., Ahmed, N. C., Gouda, M. M., Vos, P., & Bonnerup, C. (2018). RT-qPCR for Fecal Mature MicroRNA Quantification and Validation. In *Part of the METHODS IN MOLECULAR BIOLOGY book series (MIMB, Volume 1765)* (pp. 203-215). Humana Press.
https://doi.org/10.1007/978-1-4939-7765-9_13

Vos, P., & Wu, Q. (2018). Probability Essentials. In *Computational Analysis and Understanding of Natural Languages: Principles, Methods and Applications (vol. 38)* (pp. 75-109). Elsevier.

Wu, Q., & Vos, P. (2018). Statistical Inference and Prediction. In *Computational Analysis and Understanding of Natural Languages: Principles, Methods, and Applications* (pp. 111-172). Elsevier.

Anaya-Izquierdo, K., Critchley, F., Marriott, P., & Vos, P. (2017b). Towards the Geometry of Model Sensitivity: An Illustration. In *Computational Information Geometry For Image and Signal Processing* (pp. 33-62). Springer.
<https://www.springer.com/us/book/9783319470566>

Anaya-Izquierdo, K., Critchley, F., Marriott, P., & Vos, P. (2017a). On the Geometric Interplay Between Goodness-of-Fit and Estimation: Illustrative Examples. In *Computational Information Geometry For Image and Signal Processing* (pp. 63-77). Springer.
<https://www.springer.com/us/book/9783319470566>

Other

Completed/Published

Vos, P., & Wu, Q. (2021). Letter to the Editor: Zhang, J. (2021), "The Mean Relative Entropy: An Invariant Measure of Estimation Error." *The American Statistician*, 75, 117-123. [Diversity, Equity, & Inclusion : Yes]

Vos, P. (2008-2009). *Research-in-Progress*.

Vos, P. (2002–2003). *Letter to the Editor*.

Vos, P. (1998–1999). *MINIMUM DIVERGENCE ESTIMATION*.

Vos, P. (1997–1998). *Special Projects or Assignments*.

Presentation

Completed/Published

- Lee, C. W., Lee, T. D., Newton, M. H., Gallagher, J. L., Vos, P., & Dickerson, D. L. L. (2022). Virtual Rehearsal Simulations – Comparison of Elementary Teacher Candidates’ Elicitation of Student Thinking. In *American Educational Research Association Annual Meeting*. [Diversity, Equity, & Inclusion : No]
- Lee, T. D., Lee, C. W., Newton, M. H., Vos, P., Gallagher, J. L., & Dickerson, D. L. (2021). Rehearsal contexts (peer to peer vs. virtual rehearsal simulation): Elementary pre-service teachers’ scientific discourse skills explored. In *American Educational Research Association Annual Virtual Conference*.
- Vos, P. (2021). Rehearsal contexts (peer to peer vs. virtual rehearsal simulation): Elementary pre-service teachers’ scientific discourse skills explored. In *American Educational Research Association Annual Virtual Conference*. [Diversity, Equity, & Inclusion : Yes]
- Lee, T. D., Lee, C. W., Newton, M. H., Vos, P., Gallagher, J. L., & Dickerson, D. L. (2021, April). Elementary pre-service teachers’ rehearsing scientific discourse with peers and avatars. In *National Association of Research in Science Teaching Annual International Conference*.
- Hall, M. B., Mwachofi, A., Collier, C., & Thomas, K. (2019). Development of a Physical Activity Intervention using the Socioecological Model Framework: Formative Evaluation among Rural African American Women. In *12th AACR Conference on The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved*.
- Wu, Q., & Vos, P. (2019, July). Permutation Inference for Linear Regression and a Diagnostic Tool for CLT. In *IMS China 2019*.
- Durland, A., Thorp, J., Johnson, S., Willson, J. D., & Vos, P. (2019, April). The Acute Effects of Common Physical Therapy Interventions on Passive Hamstring Length: A Blinded Randomized Control Trial. In *ECU RCAW/ CAHS Research Day*.
- Durland, A., Thorp, J., Johnson, S., Willson, J. D., & Vos, P. (2018, October). The Acute Effects of Common Physical Therapy Interventions on Passive Hamstring Length: A Blinded Randomized Control Trial. In *NCPT Fall Conference*
- Hall, M. B., & Vos, P. (n.d.). Cervical Cancer Screening Behaviors and Perceptions of Medical Mistrust among Rural Black and White Women. In *11th AACR Conference on The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved*.
- Wu, Q., & Vos, P. (2018, July). Permutation Inference for Linear Regression and a Diagnostic Tool for CLT. In *ICSA 2018*.
- Wu, Q., & Vos, P. (2017, August). Permutation Confidence Region for Regression Slopes and a Diagnostic Tool for the Central Limit Theorem. In *JSM 2017*.
- Swift, D., Nevels, T. R., Landrine, H., Lavie, C. J., Newton, R. L., Das, B. M., Vos, P., & Houmard, J. A. (2017, March). Racial differences in cardiorespiratory fitness between African Americans and Caucasians: A meta-analysis. In *American Heart Association Epidemiology and Prevention*.
- Wolf, D., Walker, M., Vos, P. W., Givens, G., & Hough, M. (2016, November). Semantic, Syntactic & Orthographic Processing in Early Fluent Readers. In *ASHA Annual Convention*.
- Wu, Q., & Vos, P. (2016). Permutation Inference Distribution for Linear Regression and Related Models. In *International Chinese Statistical Association 2016 Symposium, Atlanta, Georgia*
- Vos, P. (2016, February). Information Geometry and Statistical Inference. In *Invited talk for Geometry Colloquium*. Invited talk for Geometry Colloquium.
- Vos, P. (2015). Low Dimensional Exponential Families in the Simplex. In *Computational information geometry for image and signal processing*. Computational information geometry for image and signal processing.
- Vos, P. (2015). Applications of Information Geometry to Statistics. In *Applied Math Colloquium (not a conference)*. Applied Math Colloquium (not a conference).
- Anaya-Izquierdo, K., & Vos, P. (2014). A brief introduction to the interplay between Geometry and Statistics. In *2014 University of Bath Geometry Conference*. 2014 University of Bath Geometry Conference.
- Vos, P. (2012). Improving Distribution Estimators Under Kullback-Leibler Loss. In *Joint Statistical Meeting 2012*.

- Wu, Q., & Vos, P. (2011). Decomposition of Kullback-Leibler risk and unbiasedness for parameter-free estimators. In *2011 IMS-China Meeting, Xi'an, China*.
- Anaya-Izquierdo, K., Critchley, F., Marriott, P., & Vos, P. (2011). A geometric treatment of overdispersion. In *WOGAS 3*.
- Wu, Q., & Vos, P. (2010). Kullback-Leibler Risk of Estimators for Univariate Discrete Distributions in the Exponential Family. In *2010 ENAR meeting*.
- Verbanac, K., Min, J., Mannie, A., Lu, J., & Vos, P. (2010). Long-Term Follow-up Study of a Multicenter Sentinel Node Trial: Molecular Detection of Sentinel Node Metastases Predicts Distant Recurrence. In *American Society of Breast Surgeons American Society of Breast Surgeons*.
- Vos, P., Anaya-Izquierdo, K., Critchley, F., & Marriott, P. (2010). Computational Information Geometry: Geometry of Model Choice. In *International Conference on Robust Statistics 2010*.
- Anaya-Izquierdo, K., Critchley, F., Marriott, P., & Vos, P. (2010). Computational Information Geometry: Model Sensitivity and Approximate Cuts. In *Workshop on Geometric and Algebraic Statistics 2*
- Wu, Q., & Vos, P. (2010). Decomposition of Kullback-Leibler Risk with Applications to Exponential Families. In *2010 Joint Statistical Meeting*.
- Anaya-Izquierdo, K., Critchley, F., Marriott, P., & Vos, P. (2009). On the geometry of generalized linear mixed models. In *2nd International Workshop of the ERCIM Working Group on Computing & Statistics*
- Critchley, F., Anaya-Izquierdo, K., Marriott, P., & Vos, P. (2009). Sensitivity to model selection. In *International Conference on Robust Statistics 09*.

Accepted

- Lee, C. W., Gallagher, J. L., Dickerson, D. L. L., Vos, P., Lee, T. D., & Newton, M. H. (2022, April). Virtual Rehearsal Simulations—Comparison of Elementary Teacher Candidates' Elicitation of Student Thinking. Paper Presentation. In *American Educational Research Association*. [Diversity, Equity, & Inclusion : Yes]
- Lee, C. W., Lee, T. D., Newton, M. H., Gallagher, J. L., Vos, P., & Dickerson, D. L. L. (2022). Virtual Rehearsal Simulations – Comparison of Elementary Teacher Candidates' Elicitation of Student Thinking. In *American Educational Research Association Annual Meeting*. [Diversity, Equity, & Inclusion : No]
- Lee, T. D., Lee, C. W., Newton, M. H., Gallagher, J. L., Vos, P., Dickerson, D. L. L., & Glass, B. B. (2022, March). Virtual Rehearsal Simulations as Authentic Practice Spaces for Developing Scientific Discourse Skills. In *National Association of Research for Science Teaching* [Diversity, Equity, & Inclusion : Yes]
- Lee, T. D., Lee, C. W., Newton, M. H., Gallagher, J. L., Vos, P., Dickerson, D., & Glass, B. B. (2022, March). Virtual Rehearsal Simulations as Authentic Practice Spaces for Developing Scientific Discourse Skills. In *National Association of Research in Science Teaching Annual International Conference* [Diversity, Equity, & Inclusion : No]
- Lee, T. D., Lee, C. W., Newton, M. H., Vos, P., Gallagher, J. L., & Dickerson, D. L. (2021). Virtual Rehearsal Simulations to Explore Elementary Pre-service Teachers' Scientific Discourse Skills. In *National Association of Research in Science Teaching Annual International Conference*.
- Lee, T. D., Newton, M. H., Vos, P., Dickerson, D. L., & Gallagher, J. L. (2021, April). Rehearsal Contexts (Peer to Peer vs. Virtual Rehearsal Simulation): Elementary Pre-service Teachers' Scientific Discourse Skills Explored. In *American Educational Research Association*.
- Lee, T. D., Newton, M. H., Vos, P., Gallagher, J. L., & Dickerson, D. L. (2021, April). Virtual Rehearsal Simulations to Explore Elementary Pre-service Teachers' Scientific Discourse Skills. In *National Association of Research for Science Teaching*.

Research Report

Completed/Published

- Dickerson, D. L. L., Lee, C. W., Lee, T. D., Vos, P., Castles, R. T., & Fales, H. (2019). *Interim Report NSF*. [Diversity, Equity, & Inclusion : Yes]
- Dickerson, D. L. L., Lee, C. W., Lee, T. D., Vos, P., Fales, H., & Castles, R. T. (2021). *Interim Report NSF*. [Diversity, Equity, & Inclusion : Yes]
- Dickerson, D. L. L., Lee, C. W., Lee, T. D., Vos, P., Castles, R. T., & Fales, H. (2020). *Interim Report NSF*. [Diversity, Equity, & Inclusion : Yes]

Teaching Schedule

Date	Course Prefix	Course Number	Section	Course Title

Aug 2021	BIOS	7021	001	Bios for Hlth Profess I
Aug 2021	BIOS	7021	601	Bios for Hlth Profess I
Aug 2021	BIOS	7021	602	Bios for Hlth Profess I
Aug 2021	BIOS	7021	603	Bios for Hlth Profess I
Aug 2020	BIOS	7021	001	Bios for Hlth Profess I
Aug 2020	BIOS	7021	601	Bios for Hlth Profess I
Aug 2020	BIOS	7021	602	Bios for Hlth Profess I
Aug 2020	BIOS	7021	603	Bios for Hlth Profess I
Jan 2020	PUBH	8025	601	Quantitative Research Methods
Aug 2019	BIOS	7021	001	Bios for Hlth Profess I
Aug 2019	BIOS	7021	601	Bios for Hlth Profess I
Aug 2019	BIOS	7021	602	Bios for Hlth Profess I
Aug 2019	BIOS	7021	603	Bios for Hlth Profess I
Jan 2019	PUBH	8025	001	Quantitative Research Methods
Jan 2019	PUBH	8025	601	Quantitative Research Methods
Aug 2018	BIOS	7021	001	Bios for Hlth Profess I
Aug 2018	BIOS	7021	601	Bios for Hlth Profess I
Aug 2018	BIOS	7021	602	Bios for Hlth Profess I
Jan 2018	PUBH	8025	601	Quantitative Research Methods
Aug 2017	BIOS	7021	001	Bios for Hlth Profess I
Aug 2017	BIOS	7021	601	Bios for Hlth Profess I
Aug 2017	BIOS	7021	602	Bios for Hlth Profess I
Aug 2016	BIOS	7021	1	BIOS FOR HLTH PROF I
Aug 2016	BIOS	7021	601	BIOS FOR HLTH PROF I
Aug 2016	BIOS	7021	602	BIOS FOR HLTH PROF I
May 2016	BIOS	7021	601	BIOS FOR HLTH PROF I
May 2016	BIOS	7021	602	BIOS FOR HLTH PROF I
Aug 2015	BIOS	7021	1	BIOS FOR HLTH PROF I
Jan 2015	BIOS	7021	1	BIOS FOR HLTH PROF I
Jan 2015	BIOS	7021	601	BIOS FOR HLTH PROF I
Jan 2015	BIOS	7021	602	BIOS FOR HLTH PROF I
Aug 2013	BIOS	7021	2	BIOS FOR HLTH PROF I
Aug 2013	BIOS	7021	601	BIOS FOR HLTH PROF I
Aug 2013	BIOS	7021	602	BIOS FOR HLTH PROF I
Jan 2013	BIOS	7021	1	BIOS FOR HLTH PROF I
Jan 2013	BIOS	7021	2	BIOS FOR HLTH PROF I
Jan 2013	BIOS	7021	601	BIOS FOR HLTH PROF I
Jan 2012	BIOS	7021	1	BIOS FOR HLTH PROF I
Jan 2012	BIOS	7021	601	BIOS FOR HLTH PROF I
Jan 2012	BIOS	7021	602	BIOS FOR HLTH PROF I
Jan 2011	BIOS	7021	1	BIOS FOR HLTH PROF I
Jan 2011	BIOS	7021	601	BIOS FOR HLTH PROF I
Jan 2011	BIOS	7021	602	BIOS FOR HLTH PROF I

Jan 2010	BIOS	4900		BIOSTATISTICS HONORS
Jan 2010	BIOS	4900	601	BIOSTATISTICS HONORS
Jan 2010	BIOS	7021		BIOS FOR HLTH PROF I
Jan 2010	BIOS	7021	001	BIOS FOR HLTH PROF I
Jan 2010	BIOS	7021	601	BIOS FOR HLTH PROF I
Jan 2010	BIOS	7021	602	BIOS FOR HLTH PROF I
Jan 2009	BIOS	7021		BIOS FOR HLTH PROF I
Jan 2009	BIOS	7021	001	BIOS FOR HLTH PROF I
Jan 2009	BIOS	7021	601	BIOS FOR HLTH PROF I
Jan 2008	BIOS	7021		BIOS FOR HLTH PROF I
Jan 2008	BIOS	7021	001	BIOS FOR HLTH PROF I
Jan 2008	BIOS	7021	002	BIOS FOR HLTH PROF I
Jan 2008	BIOS	7021	601	BIOS FOR HLTH PROF I
Jan 2008	BIOS	7021	602	BIOS FOR HLTH PROF I

Other Teaching Activities

- Jan 2018 - May 2018 Doctoral/Masters Exam Preparation/Grading,
Created and graded comp exam in statistics for Steven Yuvan, Physics student.
1
- Aug 2017 - Dec 2017 Interactive online homework with solutions,
see description in goals
- Aug 2008 - May 2009 Other,
Consulting -- I delivered about 170 hours of statistical consulting to departemts in our college and across ECU. I'm include in three challenge grant applications (2%-5%) (all with Mary Jane Thomassen, IM/Pulmonary, BSOM).
- Aug 2007 - May 2008 Course Redesign,
BIOS 7501 Experimental DesignFall 2007 face to face design
Course Redesign,
BIOS 7021 Intro to Stat Methods ISpring 2008 face to face; 2 sections
Distance Learning,
BIOS 7021 Intro to Stat Methods ISpring 2008 Distance Education (2 sections)

Student Advising/Mentoring Load

- Aug 2016 1
 1
 1
 1
 1
- Jan 2016 1
 1
 1
 1
 1

Jan 2015	1
	1
	1
	1
	1
	1
	1
Aug 2014	1
Jan 2014	1
	1
	1
	1
	1
	1
	1
Aug 2013	1
	1
Jan 2013	1
	1
	1
	1
	1
Aug 2012	1
	1
	1
	1
	1
Aug 2011	1, Description: Sarah Frueh, CSDI (Laura Ball) Maggie Waltson, CSDI (Laura Ball) Dionna Manning, Educ (Cheryl McFadden) Anna Taylor, CSDI (Monical Hough) Samantha Mears, BIOL (Kyle Summers) Anna Call, OT (Denise Donica) Whitney Lear, OT (Denise (Donica) Danielle Brown, OT (Ann Dickerson) Kristin Davis, OT (Ann Dickerson) Cyrus Ridenour, OT (Ann Dickerson)
Aug 2008	1, Description: Courtney Kenner --OT 1, Description: Bruce Mock -- CSDI 1, Description: Jennifer Lemkes -- CSDI
Aug 2007	1, Description: Tracy Rogers, Biology, Arts and Sciences 1, Description: Courtney Rash, Nutrition, Arts and Sciences 1, Description: Kristin King, CSDI, CAHS 1, Description: Jennifer Weber, Biology, Arts and Sciences 1, Description: Julie Merik Biology, Arts and Sciences

Sponsored Projects

Completed

- Proposal No:20-0644 - Apply the Socioecological Framework in the Development and Implementation of a Physical Activity Intervention for Rural African American Women , Funded by DHHS - National Institutes of Health (NIH) August 3, 2020 - August 2, 2025, Completed, May 2025, CoPI Damon Swift with CoPI Paul Vos, CoPI Ari Mwachofi, PI Marla Hall, CoPI Linda Bolin
- Proposal No:15-0807, Project No: AWD-20-1552; A16-0217 - Effects of Exercise Intensity on Fitness and Insulin Sensitivity in African Americans, Funded by National Institutes of Health (NIH) May 1, 2020 - November 30, 2020, Completed, Aug 2020, CoPI Moahad Dar with CoPI Joseph Houmard, PI Damon Swift, Other Patricia Brophy, CoPI Paul Vos, CoPI Thomas Raedeke
- Proposal No:17-0395, Project No: A18-0064 - Project INTERSECT: Interactive STEM Education Competence in Teaching, Funded by National Science Foundation (NSF) August 15, 2017 - August 14, 2020 (**\$599,939.00**), Completed, May 2020, CoPI Paul Vos with CoPI Holly Fales, PI Daniel Dickerson, CoPI Christine Wilson, CoPI Carrie Lee, CoPI Ricky Castles
- Proposal No:15-0807, Project No: A16-0217 - Effects of Exercise Intensity on Fitness and Insulin Sensitivity in African Americans, Funded by National Institutes of Health (NIH) April 1, 2016 - April 30, 2020 (**\$368,750.00**), Completed, Jan 2020, CoPI Joseph Houmard with CoPI Paul Vos, CoPI Thomas Raedeke, CoPI Moahad Dar, CoPI Hope Landrine, PI Damon Swift, CoPI Terence Ryan
- Proposal No:18-0222, Project No: A18-0268 - Tumor vaccination with 15dPMJ2: assessment of DAMP-ICD induction in melanoma, Funded by UNC-CH Lineberger Comprehensive Cancer Center January 1, 2018 - May 31, 2019 (**\$50,000.00**), Completed, May 2019, CoPI Paul Vos with PI Rukiyah Van Dross, CoPI Kymberly Gowdy
- Proposal No:16-0081, Project No: A16-0085 - Scavenger receptor BI regulates oxidized lipid driven pulmonary and vascular inflammation after ozone exposure, Funded by Health Effects Institute October 1, 2015 - February 28, 2019 (**\$299,336.00**), Completed, Jan 2019, CoPI Paul Vos with PI Kymberly Gowdy

Submitted for Review

- Proposal No:22-0794 - Determining Prosthesis Acceptance: Differences in Patient Characteristics and Utilization of Rehabilitation after Lower Limb Amputation, Funded by DHHS - National Institutes of Health (NIH) April 1, 2023 - March 31, 2025, Submitted for Review, May 2022, PI Ryan Wedge with CoPI Paul Vos
- Proposal No:21-0133 - Increasing Checkpoint Inhibitor Response Rates with a Novel, Small-molecule Immunostimulant, Funded by Claradele Pharmaceuticals, Inc April 1, 2021 - March 31, 2022, Submitted - Not Funded, Jan 2022, CoPI Nasreen Vohra with PI Rukiyah Van Dross, CoPI Paul Vos
- Proposal No:22-0496 - Assessment of urinary iodine excretion and breast milk iodine concentration of vegan pregnant and lactating women, Funded by DHHS - National Institutes of Health (NIH) September 1, 2022 - August 31, 2024, Submitted for Review, Jan 2022, CoPI Paul Vos with PI Roman Pawlak
- Proposal No:20-1422 - Development of a small-molecule immunomodulator for the treatment of melanoma, Funded by Apeirolux Pharmaceutical Inc September 1, 2020 - August 31, 2021, Submitted - Not Funded, Aug 2021, CoPI Nasreen Vohra with Other Ahmed Elhassanny, PI Rukiyah Van Dross, CoPI Paul Vos
- Proposal No:21-0473 - Development of a small-molecule immunomodulator for the treatment of melanoma, Funded by Claradele Pharmaceuticals, Inc July 1, 2021 - June 30, 2022, Submitted for Review, Jan 2021, CoPI Nasreen Vohra with PI Rukiyah Van Dross, CoPI Rachel Roper, CoPI Paul Vos
- Proposal No:21-0565 - Assessment of Telomere Length of Vegan, Vegetarian, and Non-Vegetarian Mothers, Funded by DHHS - National Institutes of Health (NIH) September 1, 2021 - August 31, 2023, Submitted for Review, Jan 2021, CoPI Paul Vos with PI Linda Bolin, CoPI Roman Pawlak, CoPI Michael Wheeler
- Proposal No:21-0648 - Development of a small-molecule immunomodulator for the treatment of melanoma, Funded by Claradele Pharmaceuticals, Inc September 1, 2021 - August 31, 2022, Submitted for Review, Jan 2021, CoPI Nasreen Vohra with PI Rukiyah Van Dross, CoPI Rachel Roper, CoPI Paul Vos
- Proposal No:20-0967 - Collaborative Research: Using Metacognitive Orienting Cues to Enhance Student Learning in Thermodynamics, Funded by NSF - National Science Foundation August 5, 2020 - August 4, 2022, Submitted - Not Funded, May 2020, CoPI Daniel Dickerson with CoPI Tarek Abdel-Salam, CoPI Jonathan Reed, PI Praveen Malali, CoPI Paul Vos
- Proposal No:20-0132 - SBIR: Targeted delivery of a dual-action anticancer agent for the treatment of melanoma, Funded by Apeirolux Pharmaceutical Inc April 1, 2020 - March 31, 2021, Submitted for Review, Jan 2020, CoPI William Allen with CoPI Paul Vos, PI Rukiyah Van Dross, CoPI Nasreen Vohra, CoPI Kimberly Kew
- Proposal No:19-0755 - STTR: DHA dimer, NSC735847, as a novel component of CRC combination therapy, Funded by ElSohly Laboratories, Inc. July 1, 2019 - June 30, 2020, Submitted for Review, May 2019, CoPI Paul Vos with PI Rukiyah Van Dross
- Proposal No:18-0122 - STTR: Novel Prostamide Small Molecule Immunotherapeutic for Cancer, Funded by

Apeirolux Pharmaceutical Inc April 1, 2018 - March 31, 2019, Submitted for Review, Jan 2018, CoPI Colin Burns with CoPI Allison Danell, CoPI Paul Vos, CoPI Charles Phillips, CoPI Gina Murray, PI Rukiyah Van Dross, CoPI Nasreen Vohra, CoPI Kymberly Gowdy

Other Funded Research

- Jan 2017 - May 2017 Award Funded--Completed, Scavenger receptor BI regulates oxidized lipid induced inflammation after ozone exposure, Health Effects Institute
Award Funded--Completed, HI-PACE, NIH
- Aug 2016 - May 2017 Proposal Submitted for Review, Project Intersect, GOV-National Science Foundation (NSF)
Proposal Submitted for Review, CD163 and ozone exposure, GOV-National Institutes of Health(NIH)
Proposal Submitted for Review, Geometric and Topological Data Science Institute (GTDSI), GOV-National Science Foundation (NSF)
- Jan 2016 - May 2016 Award Funded--Completed, Scavenger receptor BI regulates oxidized lipid induced inflammation after ozone exposure, Health Effects Institute
Proposal Submitted for Review, Impact of Pharmacist-Provided Adherence Counseling and Medication Therapy, Highpoint Univ
Proposal Submitted for Review, Oral health effects of e-cigarette exposure, NIH
Award Funded--Completed, HI-PACE, NIH
Proposal Submitted for Review, PREVAIL, NIH
Proposal Submitted for Review, Evaluation of BWC Program, Evaluation of BWC Program
Proposal Submitted for Review, Impact of Pharmacist-Provided Adherence Counseling and Medication Therapy for patients with food insecurity, Highpoint Univ
- Jan 2015 - May 2015 Award Funded--Completed, Teacher Quality and Student Achievement: A Comprehensive Data-Driven School-University Approach to P-16 Reform., GOV-Department of Education (DE)
- Jan 2014 - May 2014 Award Funded--Completed, Title III - Achieving Student Academic Success Through Improved Planning and Assessment.
Award Funded--Completed, Teacher Quality and Student Achievement: A Comprehensive Data-Driven School-University Approach to P-16 Reform., GOV-Department of Education (DE)
- Jan 2013 - May 2013 Award Funded--Completed, Teacher Quality and Student Achievement: A Comprehensive Data-Driven School-University Approach to P-16 Reform., GOV-Department of Education (DE)
Award Funded--Completed, Title III - Achieving Student Academic Success Through Improved Planning and Assessment.
- Jan 2012 - May 2012 Award Funded--Completed, Teacher Quality and Student Achievement: A Comprehensive Data-Driven School-University Approach to P-16 Reform., GOV-Department of Education (DE)
- Jan 2011 - May 2011 Proposal Submitted for Review, agromed NIOSH: Mid Atlantic Center for Agriculture Safety and Health, GOV-National Institute for Occupational Safety and Health (NIOSH)
- Jan 2010 - May 2010 Proposal Submitted for Review, The impact of a novel stepping intervention on clinical measures and neurotrophin levels in an older population with mild cognitive decline and multip, GOV-National Institutes of Health(NIH)
Proposal Submitted for Review, The impact of a novel stepping intervention on clinical measures and neurotrophin levels in an older population with mild cognitive decline and multip, Clagget Foundation

Institutional Committee Service

- Aug 2020 - May 2021 HSIM Chair Search, (East Carolina University)
- Aug 2020 - Present DrPH for Danielle Dillane, (East Carolina University)
- May 2019 - May 2021 Implementation Committee for the School of Rural Public Health, (Division of Health Sciences)

Jan 2018 - May 2018 Faculty Search Committee, (Clinical Laboratory Science)

Aug 2017 - Dec 2017 Masters for Lea Taylor Meeks (OT), (East Carolina University)
Masters for Sarah Holt (OT), (East Carolina University)
Masters for Amber Faust (OT), (East Carolina University)

Aug 2017 - May 2018 Doctoral for Sarah Faucette (CSDI), (East Carolina University)
School of Public Health Implementation Committee, (East Carolina University)

Aug 2017 - Present Institutional Review Board (IRB), (East Carolina University)
Survey Review & Oversight Committee, (East Carolina University)

Institutional Committees Prior to Fall 2017

Aug 2016 - May 2017 Public Health Implementation
SROC (Survey Research Oversight Committee)
UMCIRB
Faculty Salary Advisory

Aug 2015 - May 2016 SROC (Survey Research Oversight Committee)
UMCIRB

Aug 2014 - May 2015 SROC (Survey Research Oversight Committee)
SODM search committee for epidemiologist
UMCIRB

Aug 2013 - May 2014 SODM search committee for epidemiologist
UMCIRB

Aug 2012 - May 2013 UMCIRB
UMCIRB

Aug 2011 - May 2012 UMCIRB

Aug 2010 - May 2011 Thesis Committee for Caitlin Webb (CSDI -Laura Ball)
Thesis Committee for Ryan Hill (Health and Human Performance)
Thesis Committee for Sarah Williamson (CSDI -Laura Ball advisor)
Thesis Committee for Jacqueline Dorry
Thesis Committee for Kun Yu (CSDI -Hough)
Thesis Committee for John Anema (REHB -- Goodwin)
UMCIRB
Thesis Committee for Donna Wolfe (CSDI -- Walker)

Aug 2009 - May 2010 Thesis Committee for Donna Wolfe (CSDI -- Walker)
Research and Scholarly Activities
Thesis Committee for Jacqueline Dorry
Thesis Committee for Courtney Keener (OCTP -- Velde)
Thesis Committee for Jennifer Lemkes (CSDI - Ball)
Thesis Committee for John Anema (REHB -- Goodwin)
Thesis Committee for Kun Yu (CSDI -Hough)
Thesis Committee for Caitlin Webb (CSDI -Laura Ball)
Thesis Committee for Sarah Williamson (CSDI -Laura Ball advisor)
Thesis Committee for Ryan Hill (Health and Human Performance)
UMCIRB
MPH Executive Committee

Aug 2008 - May 2009 Research and Scholarly Activities
Hearing and Appeals
UMCIRB

Aug 2007 - May 2008 Institutional Review Board
Center for Faculty Excellence Search Committee
Diversity
Research and Scholarly Activities
Hearing and Appeals

University Service Other than Committees

Jan 2018 - May 2018 Judge for CAHS research day, (East Carolina University)

Aug 2017 - Present Statistical Consulting, (East Carolina University)

Aug 2016 - May 2017 Statistical Consulting Director, (East Carolina University)
Statistical Consulting, (East Carolina University)

Aug 2015 - May 2016 Statistical Consulting, (East Carolina University)
Statistical Consulting Director, (East Carolina University)

Aug 2014 - May 2015 Statistical Consulting Director, (East Carolina University)
Statistical Consulting, (East Carolina University)
Workshop for Summer Biomedical Research Program, (East Carolina University)

Aug 2013 - May 2014 Workshop for Summer Biomedical Research Program, (East Carolina University)
Statistical Consulting, (East Carolina University)
Statistical Consulting Director, (East Carolina University)

Aug 2012 - May 2013 Workshop for Summer Biomedical Research Program, (East Carolina University)
Statistical Consulting Director, (East Carolina University)
Statistical Consulting Director, (East Carolina University)

Aug 2011 - May 2012 Statistical Consulting Director, (East Carolina University)
Workshop: Presented two 2 hour workshops for Vidant/Rehab, (East Carolina University)
Workshop: Present two 3 hour workshops for CFE, (East Carolina University)

Aug 2010 - May 2011 Statistical Consulting, (East Carolina University)
Workshop, (East Carolina University)
Statistical Consulting, (East Carolina University)

Aug 2009 - May 2010 Statistical Consulting Service, (East Carolina University)

Professional Service

Jan 2018 - May 2018 referee, once,
Description:
Served as referee for the journal *Science*

Aug 2016 - May 2017 Statistics and Probability Letters

Jan 2016 - May 2016 Bernoulli,
Description:
Referee for manuscript submission and resubmission.

Jan 2014 - May 2014 Communications in Statistics
Journal of Rehabilitation

- Jan 2013 - May 2013 Referee for JRSS B
Communications in Statistics
- Jan 2012 - May 2012 Referee for JRSS B
- Jan 2011 - May 2011 Referee for The American Statistician
Referee for JRSS B
- Aug 2010 - May 2011 Stat Consultant for Rehab Journal (Paul Alston is Editor)
- Jan 2010 - May 2010 Conference/Symposium/Workshop, CFE Summer Statistics Workshop
- Aug 2009 - May 2010 David Byar Young Investigator Award
- Jan 2009 - May 2009 David Byar Young Investigator Award
- Jan 2008 - May 2008 David Byar Young Investigator Award,
Description:
contacted by Tom TenHave
- Aug 2007 - May 2008 The American College of Radiology Imaging Network,
Description:
Contact information for person who contacted me: Kenneth L. Bielat, Ph.D., Scientific Review
Administrator, Special Review and Resources Branch, E-Mail: bielatk@mail.nih.gov

Administrative Duties

- Aug 2008 - May 2009 Administrative Duties,
* new contract with PCMH to deliver statistical services -- This is similar to the arrangement that we have with NC Wildlife and Fishers. Services were provided to both of these organizations in academic year 2008-09. Generated funds go to the College that, in the past, have been passed on to the department to provide funds for professional development and other departmental needs. * Directing/Administering statistical services across ECU community -- The department's involvement has increased significantly during this year. Our services have been widely published with the help of the Center for Faculty Excellence. * Increased activity on grant applications -- Statisticians are being written on grants in greater frequency. In most cases the percent effort is between 2% and 5%. * Workshops SPSS, SAS, and JMP workshops have been offered to ECU faculty with large turnouts. We plan to continue offering these as long as there is interest. * Mentoring of junior faculty -- With four very junior faculty I have an increased role of mentoring. This is somewhat unexpected (should not have been) but I have found it exciting and rewarding.
- Aug 2005 - Aug 2022 Chair of BIOS,
Assuming the successful transisiton of BIOS faculty into PUBH, my duties as Chai of BIOS will end June 30, 2022.

Professional Development

- Aug 2008 - May 2009 Conference/Seminar related to Scholarship, RSS 2008 Conference -- Univ of Nottingham, \$0.00,
Description:
Attended as part of a 10 day trip studying applications of geometry to statistics with Frank Critchley, Paul Marriot, and Karim Anaya-Izquierdo

Professional Memberships

- Aug 2016 - Dec 2018 International Chinese Statistical Association, No

Aug 1987 - Present American Statistical Association, Yes
Institute of Mathematical Statistics, Yes