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Contact Information

Label	Detail
officenumbr	Department of Public Health
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Current Position

Label	Detail
Position	Professor
Position	Biostatistics Coordinator
Current Academic Rank	Professor

Degrees

Degree	Discipline	Institution	City	State or Province	Nation	Year Conferred	Title of Dissertation or Thesis
Ph.D.		University of Chicago		Illinois		1987	
M.S.	Statistics	University of Chicago	Chicago	Illinois	United States	1986	
B.A.	Mathematics	Calvin College	Grand Rapids	Michigan	United States	1983	

Professional Licensures and Certifications

Title	Year Conferred/In Progress	Certificate Number	Location, Valid In	Awarding Body
Professional Statistician by the American Statistical Association (pstat)	2012			American Statistical Association

Librarianship/Professional Duties

Title	Librarianship Type	Description	Start Semester	End Semester
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Work Experience

Position	Organization	City	State	Country	Years
	Aug 2008 to Apr 2009				2008 - 2008

Health Sciences Clinical Work Experience

Position Title	Organization	City	State or Province	Start Year	End Year
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Teaching

Semester	Course Prefix	Course Number	Section	Course Title
Spring 2025	BIOS	1500	001	Introduction to Biostatistics
Spring 2025	BIOS	7022	001	Bios for Hlth Profess II
Spring 2025	BIOS	7022	601	Bios for Hlth Profess II
Spring 2024	BIOS	7021	001	Bios for Hlth Profess I
Fall 2023	BIOS	7021	001	Bios for Hlth Profess I
Fall 2023	BIOS	7021	601	Bios for Hlth Profess I
Fall 2022	BIOS	7021	001	Bios for Hlth Profess I
Fall 2022	BIOS	7021	601	Bios for Hlth Profess I
Fall 2022	BIOS	7021	602	Bios for Hlth Profess I
Fall 2022	BIOS	7021	603	Bios for Hlth Profess I
Fall 2021	BIOS	7021	001	Bios for Hlth Profess I
Fall 2021	BIOS	7021	601	Bios for Hlth Profess I
Fall 2021	BIOS	7021	602	Bios for Hlth Profess I
Fall 2021	BIOS	7021	603	Bios for Hlth Profess I
Fall 2020	BIOS	7021	001	Bios for Hlth Profess I
Fall 2020	BIOS	7021	601	Bios for Hlth Profess I
Fall 2020	BIOS	7021	602	Bios for Hlth Profess I
Fall 2020	BIOS	7021	603	Bios for Hlth Profess I
Spring 2020	PUBH	8025	601	Quantitative Research Methods
Fall 2019	BIOS	7021	001	Bios for Hlth Profess I
Fall 2019	BIOS	7021	601	Bios for Hlth Profess I
Fall 2019	BIOS	7021	602	Bios for Hlth Profess I
Fall 2019	BIOS	7021	603	Bios for Hlth Profess I
Spring 2019	PUBH	8025	001	Quantitative Research Methods
Spring 2019	PUBH	8025	601	Quantitative Research Methods
Fall 2018	BIOS	7021	001	Bios for Hlth Profess I

Fall 2018	BIOS	7021	601	Bios for Hlth Profess I
Fall 2018	BIOS	7021	602	Bios for Hlth Profess I
Spring 2018	PUBH	8025	601	Quantitative Research Methods
Fall 2017	BIOS	7021	001	Bios for Hlth Profess I
Fall 2017	BIOS	7021	601	Bios for Hlth Profess I
Fall 2017	BIOS	7021	602	Bios for Hlth Profess I
Fall 2016	BIOS	7021	1	BIOS FOR HLTH PROF I
Fall 2016	BIOS	7021	601	BIOS FOR HLTH PROF I
Fall 2016	BIOS	7021	602	BIOS FOR HLTH PROF I
Summer 2016	BIOS	7021	601	BIOS FOR HLTH PROF I
Summer 2016	BIOS	7021	602	BIOS FOR HLTH PROF I
Fall 2015	BIOS	7021	1	BIOS FOR HLTH PROF I
Spring 2015	BIOS	7021	1	BIOS FOR HLTH PROF I
Spring 2015	BIOS	7021	601	BIOS FOR HLTH PROF I
Spring 2015	BIOS	7021	602	BIOS FOR HLTH PROF I
Fall 2013	BIOS	7021	2	BIOS FOR HLTH PROF I
Fall 2013	BIOS	7021	601	BIOS FOR HLTH PROF I
Fall 2013	BIOS	7021	602	BIOS FOR HLTH PROF I
Spring 2013	BIOS	7021	1	BIOS FOR HLTH PROF I
Spring 2013	BIOS	7021	2	BIOS FOR HLTH PROF I
Spring 2013	BIOS	7021	601	BIOS FOR HLTH PROF I
Spring 2012	BIOS	7021	1	BIOS FOR HLTH PROF I
Spring 2012	BIOS	7021	601	BIOS FOR HLTH PROF I
Spring 2012	BIOS	7021	602	BIOS FOR HLTH PROF I
Spring 2011	BIOS	7021	1	BIOS FOR HLTH PROF I
Spring 2011	BIOS	7021	601	BIOS FOR HLTH PROF I
Spring 2011	BIOS	7021	602	BIOS FOR HLTH PROF I
Spring 2010	BIOS	4900		BIostatistics Honors
Spring 2010	BIOS	4900	601	BIostatistics Honors
Spring 2010	BIOS	7021		BIOS FOR HLTH PROF I
Spring 2010	BIOS	7021	001	BIOS FOR HLTH PROF I
Spring 2010	BIOS	7021	601	BIOS FOR HLTH PROF I
Spring 2010	BIOS	7021	602	BIOS FOR HLTH PROF I
Spring 2009	BIOS	7021		BIOS FOR HLTH PROF I
Spring 2009	BIOS	7021	001	BIOS FOR HLTH PROF I
Spring 2009	BIOS	7021	601	BIOS FOR HLTH PROF I
Spring 2008	BIOS	7021		BIOS FOR HLTH PROF I
Spring 2008	BIOS	7021	001	BIOS FOR HLTH PROF I
Spring 2008	BIOS	7021	002	BIOS FOR HLTH PROF I
Spring 2008	BIOS	7021	601	BIOS FOR HLTH PROF I
Spring 2008	BIOS	7021	602	BIOS FOR HLTH PROF I

Other Teaching Activities

Type	Description	# of Students (If Applicable)	Start Semester	End Semester	Other Teaching Role
Doctoral/Masters Exam Preparation/Grading	Created and graded comp exam in statistics for Steven Yuvan, Physics student.	1	Spring 2018	Spring 2018	
Interactive online homework with solutions	see description in goals		Fall 2017	Fall 2017	
Other	Consulting -- I delivered about 170 hours of statistical consulting to departments in our college and across ECU. I'm include in three challenge grant applications (2%-5%) (all with Mary Jane Thomassen, IM/Pulmonary, BSOM).		Fall 2008	Spring 2009	
Course Redesign	BIOS 7501 Experimental Design Fall 2007 face to face design	0	Fall 2007	Spring 2008	
Course Redesign	BIOS 7021 Intro to Stat Methods I Spring 2008 face to face; 2 sections	0	Fall 2007	Spring 2008	
Distance Learning	BIOS 7021 Intro to Stat Methods I Spring 2008 Distance Education (2 sections)	0	Fall 2007	Spring 2008	

Clinical Practice

Title	Description	Start Semester	End Semester

Student Advising/Student Mentoring Load

Undergraduate	Masters	Doctoral	Post-Docs	Other	Numeric Total	Description	Semester
				1			Fall 2016
				1			Fall 2016
				1			Fall 2016
				1			Fall 2016
				1			Fall 2016
				1			Spring 2016
				1			Spring 2016

1			Spring 2016
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1			Fall 2012
1			Fall 2012
1			Fall 2012
1		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)	Fall 2011
1		Courtney Kenner --OT	Fall 2008
1		Bruce Mock -- CSDI	Fall 2008
1		Jennifer Lemkes -- CSDI	Fall 2008
1		Tracy Rogers, Biology, Arts and Sciences	Fall 2007
1		Courtney Rash, Nutrition, Arts and Sciences	Fall 2007
1		Kristin King, CSDI, CAHS	Fall 2007
1		Jennifer Weber, Biology, Arts and Sciences	Fall 2007
1		Julie Merik Biology, Arts and Sciences	Fall 2007

Administrative Duties

Title of Activity	Description	Start Semester	End Semester
Vice Chair	Serve as signatory authority and chair representative when the DPH chair is absent.	Spring 2024	Ongoing
Biostatistic Certificate Director	Recruit and screen applicants, coordinate course scheduling with Epi concentraion	Fall 2022	Ongoing
BIOS Concentration Co-ordinator	Schedule courses, monitor grade distributions and course material taught by different instructors, facilitate faculty input on course content and pedagogy	Fall 2022	Ongoing
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.	Fall 2008	Spring 2009
Chair of BIOS	Assuming the successful transision of BIOS faculty into PUBH, my duties as Chai of BIOS will end June 30, 2022.	Fall 2005	Spring 2022

Scholarly Contributions and Creative Productions

Article

Completed/Published

- Vos, P. W., & Wu, Q. (2025). Generalized estimation and information. *Information Geometry*. [Publicly Displayed: Yes]
- Vos, P. W. (2025). Random Variables Aren't Random. *Mathematics*, *13*. [Publicly Displayed: Yes]
- Lee, Tammy D., Lee, Carrie, Newton, Mark, Vos, Paul, Gallagher, Jennifer, Dickerson, Daniel, & Regenthal, Camryn. (2024). Peer to Peer vs. Virtual Rehearsal Simulation Rehearsal Contexts: Elementary Teacher Candidates' Scientific Discourse Skills Explored. *Journal of Science Teacher Education*, *35*, 63. [Publicly Displayed: Yes]
- Conley, H. L., Lea, C. S., Delgado, R. V., Vos, P., Harris, E. E., Ju, A., & Rathbun, K. M. (2022). Reduced Survival Outcome After Receiving a New Cancer Diagnosis in the Emergency Department: Findings from a Hospital Network in Rural Eastern North Carolina. *Journal of Racial and Ethnic Health Disparities* [Publicly Displayed: Yes]
Patients whose cancer was found during an Emergency Department (ED) visit often present at later stages when survival outcomes are worse. Limited research has characterized the survival experience of cancer patients who receive their diagnosis through the ED versus those who do not.
- Bruns, R. E., Vos, P., & Wedge, D. R. D. (2022). Electromyography as a surrogate for estimating metabolic energy expenditure during locomotion. *Medical Engineering & Physics*, *109*, 103899. [Publicly Displayed: Yes]
Minimizing metabolic energy expenditure (MEE) plays an important role in increasing mobility in people with locomotor disabilities, as movements that require high energy lead to less activity. Rehabilitation programs and devices use MEE to determine how effective they are, but using indirect calorimetry is limiting due to time delays and non-real-world conditions. Electromyography (EMG) offers insight into how muscles activate; thus, the purpose of this study was to develop a real-time MEE feedback system through the utilization of EMG signals. Participants completed five walking conditions at different stride frequencies (preferred, +/- 15%, +/- 30%), while breath-by-breath gas exchange, ground reaction forces and EMG signals were collected. The live EMG signal was numerically integrated and separated into strides, then scaled by a cost of force (COF) coefficient. MEE had the expected quadratic relationship seen in previous literature ($R = 0.967$), along with COF data ($R = 0.701$). The EMG method stabilized between 75.1% - 133.1%, which is not within a close range (90% - 110%) of MEE; thus, future studies must investigate other mathematical methods. Our results indicate a qualitative association between MEE and EMG activity, which could be used to increase mobility and quality of life for populations with disability.
- Vos, P. (2022). Generalized estimators, slope, efficiency, and fisher information bounds. *Information Geometry*.
<http://dx.doi.org/10.1007/s41884-022-00085-7>
[Publicly Displayed: Yes]
- Lee, C. W., Lee, T. D., Dickerson, D. L., Castles, R. T., & Vos, P. (2021). Comparison of Peer-to-Peer and Virtual Simulation Rehearsals in Eliciting Student Thinking through Number Talks. *Contemporary Issues in Technology and Teacher Education* [Publicly Displayed: Yes]
- Vos, P., & Holbert, D. (2022). Frequentist statistical inference without repeated sampling. *Synthese*, *200*, 89. [Publicly Displayed: Yes]
- 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*, 461-462. [Publicly Displayed: Yes]
- 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.
<https://doi.org/10.1080/00031305.2021.1978544>
[Publicly Displayed: Yes]
- Pawlak, R., Grant, R., Vos, P., Bilgin, A. A., Berg, J., Pearce, R., & Morris, M. J. (2021). The status of folate, vitamin B-12 and homocysteine among Australian vegetarian and non-vegetarian teenagers. *Annals of Pediatrics and Child Health* *9*, 1-6. [Attachment] [Publicly Displayed: No]
- Nguyen, N. P., Vos, P., Vock, J., Thariat, J., Vo, R. A., Kratz, S., ... others. (2021). Effectiveness of Prophylactic Gastrotomy in Head and Neck Cancer Patients Treated by Image-Guided Radiotherapy and Chemotherapy: Practice Proposal by the International Geriatric Radiotherapy Group. *Journal of Surgery and Research*, *4*, 47-58. [Attachment] [Publicly Displayed: No]
- Lee, C. W., Lee, T. D., Dickerson, D. L., & Vos, P. (2021). Comparison of Virtual Rehearsal Simulations and Peer-to-Peer Rehearsals in Eliciting Student Thinking through Number Talks. *Contemporary Issues in Technology and Teacher Education*. [Publicly Displayed: Yes]
- 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*, B107-B107. [Publicly Displayed: No]
- Wu, Q., & Vos, P. (2019). Permutation inference distribution for linear regression and related models. *Journal of Nonparametric Statistics*, *31*, 722-742. [Publicly Displayed: Yes]
- Swift, D., Vos, P., Houmard, J. A., Raedeke, T. D., McGee, J. E., Barefoot, S. G., ... Ryan, T. (2019). High-intensity exercise to promote accelerated improvements in cardiorespiratory fitness (HI-PACE): Study protocol for a randomized controlled trial. *Trials*. [Attachment] [Publicly Displayed: Yes]
- Hall, M. B., & Vos, P. (2019). Comparison of Cancer Fatalism Among Rural Smokers and Nonsmokers. *Journal of Community Health*, *44*, 215-221. [Publicly Displayed: Yes]
This study examined the relationship of cancer fatalism, using the Powe Fatalism Inventory (PFI), and smoking status (active smoker and nonsmoker) among rural adults. Utilizing a convenience sample, a cross-sectional study was performed. Inclusion criteria included being at least 18 years of age and a resident of one of the selected counties in the rural region. Analyses conducted were two-sample t tests, Fisher's exact tests, and logistic regression. Among 485 participants, the overall fatalism mean score and five PFI items had statistically significant outcomes. Using multiple significance tests, significance remained when adjusting for demographic variables for the individual PFI items. Analyses indicated that smokers possessed a heightened level of fatalistic views compared to nonsmokers. Future directions includes the creation of a community-informed, multi-level intervention to increase perceived susceptibility of smoking-related health risks and foster healthcare seeking behaviors. This approach has the potential to reduce rates of morbidity and mortality in rural, underserved communities.
- Walsh, D. S., Lazorick, S., Lawson, L., Lake, D., Garrison, H. G., Higginson, J., ... Baxley, E. (2018). The Teachers of Quality Academy: Evaluation of the Effectiveness and Impact of a Health Systems Science Training Program. *American Journal of Medical Quality: The Official Journal of the American College of Medical Quality* *34*, 36-44. [Publicly Displayed: Yes]
This project aimed to evaluate the effectiveness of a faculty development program in health systems science (HSS)-the Teachers of Quality Academy (TQA). Participants in TQA and a comparison group were evaluated before, during, and 1 year after the program using self-perception questionnaires, tests of HSS knowledge, and tracking of academic productivity and career advancement. Among program completers ($n = 27$), the mean self-assessed ratings of knowledge and skills of HSS topics immediately after the program, as compared to baseline, increased significantly compared to controls ($n = 30$). Participants demonstrated progressive improvement of self-perceived skills and attitudes, and retention of HSS knowledge, from baseline to completion of the program. Participants also demonstrated substantially higher HSS scholarly productivity, leadership, and career advancement compared to the comparison group. The TQA effectively created a faculty cadre able to role model, teach, and create a curriculum in HSS competencies for medical students, resident physicians, and other health professionals.
- Grant, R., Pawlak, R., Vos, P., Bilgin, A. A., Berg, J., Pearce, R., & Morris, M. (2019). Cardiovascular Disease Risk Factors Profile Among Australian Vegetarian and Nonvegetarian Teenagers. *American Journal of Lifestyle Medicine*, *0*, 1559827619829000. [Publicly Displayed: Yes]
- Pawlak, R., Vos, P., Shahab-Ferdows, S., Hampel, D., Allen, L. H., & Perrin, M. T. (2018). Vitamin B-12 content in breast milk of vegan, vegetarian, and nonvegetarian lactating women in the United States. *The American Journal of Clinical Nutrition* *108*, 525-531. [Publicly Displayed: Yes]
The nutritional profile of human milk varies significantly between women, and the impact of maternal diet on these variations is not well understood.
- Hall, M. B., Vos, P., Bess, J. J., Reburn, K. L., Locklear, G. D., McAlister, J., & Bell, R. A. (2018). Cervical Cancer Screening Behaviors and Perceptions of Medical Mistrust among Rural Black and White Women. *Journal of Health Care for the Poor and Underserved* *29*, 1368-1385. [Publicly Displayed: Yes]
This study examined the relationship of medical mistrust using the Group-based Medical Mistrust Scale (GBMMS), and Papanicolaou testing behaviors among rural Black and White women.
- Ahmed, F. E., Gouda, M. M., Hussein, L. A., Ahmed, N. C., Vos, P., & Mohammad, M. A. (2017). Role of Melt Curve Analysis in Interpretation of Nutrigenomics' MicroRNA Expression Data. *Cancer Genomics & Proteomics*, *469-481*. [Publicly Displayed: Yes]
- Nguyen, N. P., Nguyen, L. M., Thomas, S., Hong-Ly, B., Chi, A., & Vos, P. (2016). Oral Sex and Oropharyngeal Cancer: The Role of the Primary Care Physicians. *Medicine*, *95(28):e4228*, e4228. [Publicly Displayed: Yes]
ResearchSub: Journal: Professional / Practitioner Student Collaboration: No Corresponding Author: No International: No
- Vohra, N., Kachare, S., Vos, P., Schroeder, B., & Schuth, O. (2016). The short-term effect of weight loss surgery on volumetric breast density and broglandular volume. *Obesity Surgery*, *27*, 1013-1023.
ResearchSub: Journal: Academic Student Collaboration: No Corresponding Author: No International: No
- Mays, K., Crisp, H. A., & Vos, P. (2016). Utilizing CAD/CAM to Measure Total Occlusal Convergence of Preclinical Dental Students' Crown Preparations. *Journal of Dental Education*, *80*, 100-107.
ResearchSub: Journal: Academic Student Collaboration: No Corresponding Author: No International: No
- DeMarco, S. S., Vos, P., Green, H., Defazio, J., & Davis, N. (2016). A 10-year Review of Outpatient Skin Biopsy Results and Skin Cancer Subtypes. *Dermatology Online Journal*, *22*.
ResearchSub: Note / Abstract Student Collaboration: No Corresponding Author: No International: No
- Vos, P., & Wu, Q. (2015). Maximum Likelihood Estimators Uniformly Minimize Distribution Variance Among Distribution Unbiased Estimators in Exponential Families. *Bernoulli*, *21*, 2120-2138.
ResearchSub: Journal: Academic Student Collaboration: No Corresponding Author: No International: No
- Nguyen, N. P., Ries, T., Vock, J., Vos, P., & Chi, A. (2015). Effectiveness of Radiotherapy for Elderly Patients with Non-melanoma Skin Cancer of the Head. *Geriatrics & Gerontology International*, *15*, 601-605.
ResearchSub: Journal: Professional / Practitioner Student Collaboration: No Corresponding Author: No International: No
- Nguyen, N. P., Kratz, S., Chi, A., Vock, J., & Vos, P. (2015). Feasibility of Image-Guided Radiotherapy and Concurrent Chemotherapy for Locally Advanced Nonsmall Cell Lung Cancer. *Cancer Investigation*, *33*, 53-60.
ResearchSub: Journal: Professional / Practitioner Student Collaboration: No Corresponding Author: No International: No
- Nguyen, N. P., Jang, S., Vock, J., Vinh-Hung, V., & Chi, A. (2014). Feasibility of Intensity-Modulated and Image-Guided Radiotherapy for Locally Advanced Esophageal Cancer. *BMC Cancer*, *14*.
ResearchSub: Journal: Academic Student Collaboration: No Corresponding Author: No International: No

Maeda, H., Quartiroli, A., Vos, P. W., Carr, L. J., & Mahar, M. T. (2014). Feasibility of Retrofitting a University Library with Active Workstations to Reduce Sedentary Behavior. *American Journal of Preventive Medicine*, 46, 525-528.
ResearchSub: Journal: Academic Student Collaboration: No Corresponding Author: No International: No

Vos, P., & Anaya-Izquierdo, K. (2014). Using Geometry to Select One Dimensional Exponential Families that are Monotone Likelihood Ratio in the Sample Space, are Weakly Unimodal and Can Be Parametrized by a Measure of Central Tendency. *Entropy*, 4088-4100.
ResearchSub: Journal: Academic Student Collaboration: No Corresponding Author: No International: No

Carraway, M. E., Lutes, L. D., Crawford, Y., Pratt, K. J., McMillan, A. G., Scripture, L., ... Collier, D. (2014). Camp-Based Immersion Treatment for Obese, Low Socioeconomic Status, Multi-Ethnic Adolescents. *Childhood Obesity*, 10, 122-131. [Publicly Displayed: Yes]
ResearchSub: Journal: Academic Student Collaboration: No Corresponding Author: No International: No

Widner, A., Nobles, D. L., Faulk, C., Vos, P., & Ramsey, K. M. (2014). The Impact of a Search and Destroy Strategy for the Prevention of Methicillin-Resistant Staphylococcus Aureus Infections in an Inpatient Rehabilitation Facility. *PM & R*, 6, 121-126.
ResearchSub: Journal: Academic Student Collaboration: No Corresponding Author: No International: No

Ahmed, F. E., Ahmed, N., Vos, P., Bonnerup, C., & Atkins, J. N. (2013). Diagnostic MicroRNA Markers to Screen for Sporadic Human Colon Cancer in Stool: I. Proof of Principle. *Cancer Genomics & Proteomics*, 93-114.
ResearchSub: Journal: Professional / Practitioner Student Collaboration: No Corresponding Author: No International: No

Nguyen, N. P., Ceizyk, M., Vock, J., Vos, P., & Chi, A. (2013). Feasibility of Image-Guided Radiotherapy for Elderly Patients with Locally Advanced Rectal Cancer. *PLoS ONE*, 8, e71250.
ResearchSub: Journal: Academic Student Collaboration: No Corresponding Author: No International: No

Nguyen, N. P., Shen, W., Kratz, S., Vock, J., & Vos, P. (2013). Feasibility of Tomotherapy-Based Image-Guided Radiotherapy for Small Cell Lung Cancer. *Frontiers in Oncology*, 3.
ResearchSub: Journal: Academic Student Collaboration: No Corresponding Author: No International: No

Anaya-Izquierdo, K., Critchley, F., Marriott, P., & Vos, P. (2013). Computational Information Geometry in Statistics: Foundations. *Geometric Science of Information IX*, 311-318.
ResearchSub: Journal: Academic Student Collaboration: No Corresponding Author: No International: No

Anaya-Izquierdo, K., Critchley, F., Marriott, P., & Vos, P. (2013). Computational Information Geometry in Statistics: Mixture Modelling. *Geometric Science of Information IX*, 319-326.
ResearchSub: Journal: Academic Student Collaboration: No Corresponding Author: No International: No

Nguyen, N. P., Smith-Raymond, L., Vinh-Hung, V., Vos, P., & Davis, R. (2013). Feasibility of Tomotherapy-Based Image-Guided Radiotherapy to Reduce Aspiration Risk in Patients with Non-Laryngeal and Non-Pharyngeal Head and Neck Cancer. *PLoS ONE*, 8.
on line www.plosone.org ResearchSub: Journal: Academic Student Collaboration: No Corresponding Author: No International: No

Nguyen, N. P., Ceizyk, M., Vos, P., Betz, M., & Chi, A. (2013). Feasibility of Tomotherapy-Based Image-Guided Radiotherapy for Locally Advanced Oropharyngeal Cancer. *PLoS ONE*, 8, on-line.
ResearchSub: Instructional Student Collaboration: No Corresponding Author: No International: No

Vos, P., & Wu, Q. (2012). Estimators for the Binomial Distribution that Dominate the MLE in Terms of Kullback-Leibler Risk. *Annals of the Institute of Statistical Mathematics* 64, 359-371. [Publicly Displayed: Yes]
ResearchSub: Journal: Academic Student Collaboration: No Corresponding Author: No International: No

Wu, Q., & Vos, P. (2012). Decomposition of Kullback-Leibler risk and unbiasedness for parameter-free estimators. *Journal of Statistical Planning and Inference* 142, 1525-1536.
ResearchSub: Journal: Academic Student Collaboration: No Corresponding Author: No International: No

Nguyen, N., Vos, P., Vinh-Hung, V., Ceizyk, M., & Smith-Raymond, L. (2012). Feasibility of Image-Guided Radiotherapy Based on Helical Tomotherapy to Reduce Contralateral Parotid Dose in Head and Neck Cancer. *BMC Cancer*.
doi:10.1186/1471-2407-12-175. ResearchSub: Journal: Academic Student Collaboration: No Corresponding Author: No International: No

Nguyen, N. P., Vock, J., Chi, A., Vinh-Hung, V., Dutta, S., Ewell, L., ... Vos, P. (2012). Impact of intensity-modulated and image-guided radiotherapy on elderly patients undergoing chemoradiation for locally advanced head and neck cancer. *Strahlentherapie Und Onkologie*, 677-685. [Publicly Displayed: Yes]
ResearchSub: Journal: Professional / Practitioner Student Collaboration: No Corresponding Author: No International: No

Nguyen, N. P., Chi, A., Betz, M., Almeida, F., & Vos, P. (2012). Feasibility of Intensity-Modulated and Image-Guided Radiotherapy for Functional Organ Preservation in Locally Advanced Laryngeal Cancer. *PLoS ONE*, 7, online. [Publicly Displayed: Yes]
ResearchSub: Instructional Student Collaboration: No Corresponding Author: No International: No

Ahmed, F., Ahmed, N., Vos, P. W., Bonnerup, C., & Atkins, J. N. (2012). Diagnostic MicroRNA Markers to Screen for Sporadic Human Colon Cancer in Blood. *Cancer Genomics & Proteomics*, 9, 179-192.
ResearchSub: Journal: Academic Student Collaboration: No Corresponding Author: No International: No

Nguyen, N. P., Vock, J., Chi, A., Ewell, L., & Vos, P. (2012). Effectiveness of Intensity-Modulated and Image-Guided Radiotherapy to Spare the Mandible From Excessive Radiation. *Oral Oncology*, 48, 653-657.
ResearchSub: Journal: Professional / Practitioner Student Collaboration: No Corresponding Author: No International: No

Nguyen, N. P., Smith-Raymond, L., Vinh-Hung, V., Sloan, D., & Davis, R. (2011). Feasibility of Tomotherapy to Spare The Cochlea From Excessive Radiation in Head and Neck Cancer. *Oral Oncology*, 47, 414-419.
ResearchSub: Journal: Professional / Practitioner Student Collaboration: No Corresponding Author: No International: No

Nguyen, N., Krafft, S. P., Vos, P., Vinh-Hung, V., & Ceizyk, M. (2011). Feasibility of Tomotherapy for Graves' Ophthalmopathy. *Strahlentherapie*, 9, 568-574.
ResearchSub: Journal: Academic Student Collaboration: No Corresponding Author: No International: No

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Accepted

No activities entered.

Revise & Resubmit

No activities entered.

Submitted

No activities entered.

In Progress

No activities entered.

Case Study

No activities entered.

Chapter

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No activities entered.

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No activities entered.

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No activities entered.

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No activities entered.

Creative Activities

No activities entered.

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No activities entered.

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No activities entered.

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No activities entered.

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No activities entered.

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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. National Association of Research in Science Teaching Annual International Conference* Orlando, FL. [Publicly Displayed: No]

Lee, C. W., Lee, T. D., Newton, M. H., Gallagher, J. L., Vos, P., & Dickerson, D. L. (2022). *Virtual Rehearsal Simulations – Comparison of Elementary Teacher Candidates' Elicitation of Student Thinking. American Educational Research Association Annual Meeting*. San Diego, CA. [Publicly Displayed: No]

Lee, T. D., Lee, C. W., Newton, M. H., Gallagher, J. L., Vos, P., Dickerson, D. L., & Glass, B. B. (2022, March). *Virtual Rehearsal Simulations as Authentic Practice Spaces for Developing Scientific Discourse Skills. National Association of Research for Science Teaching* British Columbia, Canada. [Publicly Displayed: 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. National Association of Research in Science Teaching Annual International Conference* Orlando, FL. [Publicly Displayed: 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. American Educational Research Association Annual Virtual Conference*. Orlando, FL. [Publicly Displayed: Yes]

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. 12th AACR Conference on The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved* San Francisco, California. [Publicly Displayed: Yes]

Wu, Q., & Vos, P. (2019, July). *Permutation Inference for Linear Regression and a Diagnostic Tool for CLTIMS China 2019*. Dalian, China. [Publicly Displayed: Yes]

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. NCPT Fall Conference. Greensboro, NC. [Publicly Displayed: Yes]

Does mobilizing the ankle, ie increasing joint mobility and feedback, produce enough change to affect balance. To be presented spring CAHS research day.

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. ECU RCAW/ CAHS Research Day*. Greenville, NC. [Publicly Displayed: Yes]

Does mobilizing the ankle, ie increasing joint mobility and feedback, produce enough change to affect balance. To be presented spring CAHS research day.

Hall, M. B., & Vos, P. (n.d.). *Cervical Cancer Screening Behaviors and Perceptions of Medical Mistrust among Rural Black and White Women* 11th AACR Conference on The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved. New Orleans, Louisiana. [Publicly Displayed: Yes]

Wu, Q., & Vos, P. (2018, July). *Permutation Inference for Linear Regression and a Diagnostic Tool for CLT/CSA 2018*. QingDao, China. [Publicly Displayed: Yes]

Wu, Q., & Vos, P. (2017, August). *Permutation Confidence Region for Regression Slopes and a Diagnostic Tool for the Central Limit Theorem* JSM 2017. Baltimore, MD. [Publicly Displayed: Yes]

Swift, D., Nevels, T. R., Landrine, H., Lavie, C. J., Newton, R. L., Das, B. M., ... Houmard, J. A. (2017, March). *Racial differences in cardiorespiratory fitness between African Americans and Caucasians: A meta-analysis. American Heart Association Epidemiology and Prevention*. [Publicly Displayed: Yes]

Vos, P. (2016, February). *Information Geometry and Statistical Inference Invited talk for Geometry Colloquium*. Athens Georgia: Invited talk for Geometry Colloquium.
Student Collaboration: No Type: Academic

Wu, Q., & Vos, P. (2016). *Permutation Inference Distribution for Linear Regression and Related Models International Chinese Statistical Association 2016 Symposium, Atlanta, Georgia* Atlanta Georgia. [Publicly Displayed: Yes]

Student Collaboration: No Type: Academic

Wolf, D., Walker, M., Vos, P. W., Givens, G., & Hough, M. (2016, November). *Semantic, Syntactic & Orthographic Processing in Early Fluent Readers ASHA Annual Convention*. Philadelphia Pennsylvania. [Publicly Displayed: Yes]

Oral Presentation by one of the authors. Session Format: Technical Research Student Collaboration: No Type: Academic

Vos, P. (2015). *Applications of Information Geometry to Statistics Applied Math Colloquium (not a conference)*. Chapel Hill North Carolina: Applied Math Colloquium (not a conference).
Student Collaboration: No Type: Academic

Vos, P. (2015). *Low Dimensional Exponential Families in the Simplex. Computational information geometry for image and signal processing* Edinburgh Scotland: Computational information geometry for image and signal processing.

Student Collaboration: No Type: Academic

Anaya-Izquierdo, K., & Vos, P. (2014). *A brief introduction to the interplay between Geometry and Statistics 2014 University of Bath Geometry Conference*. Bath United Kingdom: 2014 University of Bath Geometry Conference.

Student Collaboration: No Type: Academic

Vos, P. (2012). *Improving Distribution Estimators Under Kullback-Leibler Loss Joint Statistical Meeting 2012*. San Diego United States of America.

Student Collaboration: No Type: Academic

Anaya-Izquierdo, K., Critchley, F., Marriott, P., & Vos, P. (2011). *A geometric treatment of overdispersion WOGAS 3*. Coventry United Kingdom.

Student Collaboration: No Type: Academic

Wu, Q., & Vos, P. (2011). *Decomposition of Kullback-Leibler risk and unbiasedness for parameter-free estimators. 2011 IMS-China Meeting, Xi'an, China*. Xi'an China.

Student Collaboration: No Type: Academic

Wu, Q., & Vos, P. (2010). *Kullback-Leibler Risk of Estimators for Univariate Discrete Distributions in the Exponential Family 2010 ENAR meeting*. New Orleans Louisiana.

Student Collaboration: No Type: Academic

Wu, Q., & Vos, P. (2010). *Decomposition of Kullback-Leibler Risk with Applications to Exponential Families 2010 Joint Statistical Meeting*. Vancouver Canada. [Publicly Displayed: Yes]

Student Collaboration: No Type: Academic

Anaya-Izquierdo, K., Critchley, F., Marriott, P., & Vos, P. (2010). *Computational Information Geometry: Model Sensitivity and Approximate Cuts Workshop on Geometric and Algebraic Statistics 2*. Coventry Great Britain.

Student Collaboration: No Type: Academic

Vos, P., Anaya-Izquierdo, K., Critchley, F., & Marriott, P. (2010). *Computational Information Geometry: Geometry of Model Choice International Conference on Robust Statistics 2010*. Prague Czech Republic. [Publicly Displayed: Yes]

Student Collaboration: No Type: Academic

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. American Society of Breast Surgeons* Las Vegas Nevada: American Society of Breast Surgeons. [Publicly Displayed: Yes]

Student Collaboration: No Type: Academic

Critchley, F., Anaya-Izquierdo, K., Marriott, P., & Vos, P. (2009). *Sensitivity to model selection. International Conference on Robust Statistics 09* Parma Italy. [Publicly Displayed: Yes]

There are many robust procedures which succeed in dealing with departures from (1), while largely maintaining (2). We discuss (their joint use with) a computational information geometry approach to the complementary problem of assessing sensitivity to changes in (2) while largely maintaining (1).
Student Collaboration: No Type: Academic

Anaya-Izquierdo, K., Critchley, F., Marriott, P., & Vos, P. (2009). *On the geometry of generalized linear mixed models 2nd International Workshop of the ERCIM Working Group on Computing & Statistics*. Limassol Cyprus.

Student Collaboration: No Type: Academic

Accepted

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. National Association of Research in Science Teaching Annual International Conference* Vancouver, Canada. [Publicly Displayed: No]

Revise & Resubmit

No activities entered.

Submitted

No activities entered.

In Progress

No activities entered.

Proceedings Publication

No activities entered.

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. [Publicly Displayed: Yes]

Dickerson, D. L. L., Lee, C. W., Lee, T. D., Vos, P., Fales, H., & Castles, R. T. (2021). Interim Report NSF. [Publicly Displayed: Yes]

Dickerson, D. L. L., Lee, C. W., Lee, T. D., Vos, P., Castles, R. T., & Fales, H. (2020). Interim Report NSF. [Publicly Displayed: Yes]

Accepted

No activities entered.

Revise & Resubmit

No activities entered.

Submitted

No activities entered.

In Progress

No activities entered.

Review

No activities entered.

Software

No activities entered.

eTRACS Grants

Title	Collaborators	Funding Agency/Sponsor	Start Date	End Date	Award Date	Total Funding	Status	Semester	Description
Proposal No:25-0461 - Toward Next Generation Male Fertility Diagnostics: Unraveling Sperm Complexity and Heterogeneity	Paul Vos ColInvestigator Martin Bier ColInvestigator David M Hart PI Cameron A Schmidt PI	DHHS - National Institutes of Health (NIH)	2025-12-01	2030-11-30		0	Submitted for Review	Spring 2025	The above URL provides a link to the ECUBIC Proposal Abstract Report
Proposal No:23-0846 - Optimizing metabolic cost normalization for people with and without lower limb amputation	Paul Vos ColInvestigator Ryan D Wedge PI	DRI - Denver Research Institute	2024-06-01	2026-05-31		0	Submitted - Not Funded	Fall 2024	The above URL provides a link to the ECUBIC Proposal Abstract Report
Proposal No:23-0200 - Assessment of urinary iodine excretion and breast milk iodine concentration of vegan pregnant and lactating women	Paul Vos ColInvestigator Roman M Pawlak PI	DHHS - National Institutes of Health (NIH)	2023-09-01	2025-08-31		0	Submitted - Not Funded	Fall 2024	The above URL provides a link to the ECUBIC Proposal Abstract Report
Proposal No:24-0305 - Measuring and Predicting Appropriate Antibiotic Use to Combat Resistant Bacteria	Paul Vos ColInvestigator Richard Medford PI	Stanford University	2023-07-01	2025-06-30	2024-01-23	\$246,000.29	Funded - In Progress	Fall 2024	The above URL provides a link to the ECUBIC Proposal Abstract Report
Proposal No:25-0280 - Neurobiomechanical Characteristics of Trips in People with Dysvascular Lower Limb Amputation Before and After Perturbation Training	Paul Vos ColInvestigator Shivajirao P Patil ColInvestigator Ryan D Wedge PI Chia-Cheng Lin ColInvestigator	DHHS - NIH/National Institute of Child Health and Human Development (NICHD)	2025-07-01	2027-06-30		0	Submitted for Review	Fall 2024	The above URL provides a link to the ECUBIC Proposal Abstract Report
Proposal No:24-0107 - Supplement - A Non-clinical Performance Study to Evaluate the Substantial Equivalence of Single Unit Blood Warmer (SUBW) Device to a Predicate.	Paul Vos ColInvestigator Addisalem T Makuria PI John T Fallon CoPI	Delta Development Team, Inc	2023-08-01	2024-05-31	2022-08-26	\$322,708.36	Completed	Summer 2024	The above URL provides a link to the ECUBIC Proposal Abstract Report
Proposal No:22-0391 - A Non-clinical Performance Study to Evaluate the Substantial Equivalence of Single Unit Blood Warmer (SUBW) Device to a Predicate.	Paul Vos ColInvestigator Addisalem T Makuria PI John T Fallon CoPI	Delta Development Team, Inc	2022-11-01	2025-05-31	2022-08-26	\$322,708.36	Funded - In Progress	Summer 2024	The above URL provides a link to the ECUBIC Proposal Abstract Report
Proposal No:24-0775 - Supplement 2 - A Non-clinical Performance Study to Evaluate the Substantial Equivalence of Single Unit Blood Warmer (SUBW) Device to a Predicate.	Paul Vos ColInvestigator John T Fallon CoPI Addisalem T Makuria PI	Delta Development Team, Inc	2024-06-01	2025-05-31	2022-08-26	\$322,708.36	Funded - In Progress	Summer 2024	The above URL provides a link to the ECUBIC Proposal Abstract Report
Proposal No:22-0794 - Determining Prosthesis Acceptance: Differences in Patient Characteristics and Utilization of Rehabilitation after Lower Limb Amputation	Paul Vos ColInvestigator Ryan D Wedge PI	DHHS - National Institutes of Health (NIH)	2023-04-01	2025-03-31		0	Submitted - Not Funded	Spring 2024	The above URL provides a link to the ECUBIC Proposal Abstract Report
Proposal No:21-0648 - Development of a small-molecule immunomodulator for the treatment of melanoma	Paul Vos ColInvestigator Nasreen A Vohra ColInvestigator Rachel L Roper ColInvestigator Colin S Burns ColInvestigator Rukiyah Van Dross PI	Claradele Pharmaceuticals, Inc	2021-09-01	2025-06-30	2023-01-05	\$217,370.00	Funded - In Progress	Spring 2024	The above URL provides a link to the ECUBIC Proposal Abstract Report
Proposal No:24-0116 - Toward Next Generation Male Fertility Diagnostics: Unraveling Sperm Complexity and Heterogeneity	Paul Vos ColInvestigator Nic Herndon ColInvestigator David M Hart PI Cameron A Schmidt PI	DHHS - National Institutes of Health (NIH)	2024-07-01	2029-06-30		0	Submitted for Review	Spring 2024	The above URL provides a link to the ECUBIC Proposal Abstract Report

Proposal No:22-0496 - Assessment of urinary iodine excretion and breast milk iodine concentration of vegan pregnant and lactating women	Paul Vos ColInvestigator Roman M Pawlak PI	DHHS - National Institutes of Health (NIH)	2022-09-01	2024-08-31	0	Submitted - Not Funded	Fall 2023	The above URL provides a link to the ECUBIC Proposal Abstract Report	
Proposal No:21-0565 - Assessment of Telomere Length of Vegan, Vegetarian, and Non-Vegetarian Mothers	Paul Vos ColInvestigator Linda P Bolin PI Roman M Pawlak ColInvestigator Michael D Wheeler ColInvestigator	DHHS - National Institutes of Health (NIH)	2021-09-01	2023-08-31	0	Submitted - Not Funded	Fall 2022	The above URL provides a link to the ECUBIC Proposal Abstract Report	
Proposal No:21-0473 - Development of a small-molecule immunomodulator for the treatment of melanoma	Paul Vos ColInvestigator Rukiyah Van Dross PI Rachel L Roper ColInvestigator Nasreen A Vohra ColInvestigator	Claradele Pharmaceuticals, Inc	2021-07-01	2022-06-30	0	Submitted - Not Funded	Fall 2022	The above URL provides a link to the ECUBIC Proposal Abstract Report	
Proposal No:21-0133 - Increasing Checkpoint Inhibitor Response Rates with a Novel, Small-molecule Immunostimulant	Paul Vos ColInvestigator Nasreen A Vohra ColInvestigator Rukiyah Van Dross PI	Claradele Pharmaceuticals, Inc	2021-04-01	2022-03-31	0	Submitted - Not Funded	Fall 2022	The above URL provides a link to the ECUBIC Proposal Abstract Report	
Proposal No:20-1422 - Development of a small-molecule immunomodulator for the treatment of melanoma	Paul Vos ColInvestigator Ahmed Elhassanny Senior/Key Participant Rukiyah Van Dross PI Nasreen A Vohra ColInvestigator	Apeiroux Pharmaceutical Inc	2020-09-01	2021-08-31	0	Submitted - Not Funded	Fall 2021	The above URL provides a link to the ECUBIC Proposal Abstract Report	
Proposal No:20-0132 - SBIR: Targeted delivery of a dual-action anticancer agent for the treatment of melanoma	Paul Vos CoPI Nasreen A Vohra CoPI William E Allen CoPI Rukiyah Van Dross PI Kimberly A Kew CoPI	Apeiroux Pharmaceutical Inc	2020-04-01	2021-03-31	0	Submitted - Not Funded	Spring 2021	The above URL provides a link to the ECUBIC Proposal Abstract Report	
Proposal No:20-0271 - Detection of Early Dementia: Examination of Driving through Low Cost Technology, Interactive Simulation and as a Complex Instrumental Activity of Daily Living	Paul Vos CoPI Anne Dickerson PI Daniel Everhart CoPI	NIH National Institute on Aging (NIA)	2020-07-01	2023-06-30	0	Submitted - Not Funded	Spring 2021	The above URL provides a link to the ECUBIC Proposal Abstract Report	
Proposal No:20-0070 - STTR: Development of a small-molecule immunomodulator for the treatment of melanoma	Paul Vos CoPI Nasreen A Vohra CoPI Kimberly A Kew CoPI Rukiyah Van Dross PI	Apeiroux Pharmaceutical Inc	2020-04-01	2021-03-31	0	Submitted - Not Funded	Spring 2021	The above URL provides a link to the ECUBIC Proposal Abstract Report	
Proposal No:19-0755 - STTR: DHA dimer, NSC735847, as a novel component of CRC combination therapy	Paul Vos CoPI Rukiyah Van Dross PI	EiSohly Laboratories, Inc.	2019-07-01	2020-06-30	0	Submitted - Not Funded	Fall 2020	The above URL provides a link to the ECUBIC Proposal Abstract Report	
Proposal No:15-0807 - Effects of Exercise Intensity on Fitness and Insulin Sensitivity in African Americans	Paul Vos ColInvestigator Moahad S Dar ColInvestigator Thomas D Raedeke ColInvestigator Joseph A Houmard ColInvestigator Patricia M Brophy Senior/Key Participant Damon Swift PI	DHHS - National Institutes of Health (NIH)	2020-05-01	2020-11-30	2020-05-22	\$368,750.00	Completed	Fall 2020	The above URL provides a link to the ECUBIC Proposal Abstract Report
Proposal No:20-0967 - Collaborative Research: Using Metacognitive Orienting Cues to Enhance Student Learning in Thermodynamics	Paul Vos ColInvestigator Praveen Malali PI Tarek M Abdel-Salam CoPI Daniel L Dickerson CoPI Jonathan M Reed CoPI	NSF - National Science Foundation	2020-08-05	2022-08-04	0	Submitted - Not Funded	Summer 2020	The above URL provides a link to the ECUBIC Proposal Abstract Report	

Proposal No:18-0177 - ECU Rural Education Institute -- National Research and Development Center	Paul Vos CoPI Jessica R Chittum-Okyen Senior/Key Participant Lonika R Crumb Senior/Key Participant Robert M Reardon CoPI Mary Worthington CoPI Alana M Zambone PI	DOED Institute of Education Sciences (IES)	2018- 07-01	2023- 06-30	0	Submitted - Not Funded	Spring 2020	The above URL provides a link to the ECUBIC Proposal Abstract Report	
Proposal No:20-0644 - Apply the Socioecological Framework in the Development and Implementation of a Physical Activity Intervention for Rural African American Women	Paul Vos ColInvestigator Marla B Hall PI Linda P Bolin ColInvestigator Ari K Mwachofi ColInvestigator Damon Swift ColInvestigator	DHHS - National Institutes of Health (NIH)	2020- 08-03	2025- 08-02	0	Submitted - Not Funded	Spring 2020	The above URL provides a link to the ECUBIC Proposal Abstract Report	
Proposal No:16-0660 - Early Postnatal Exposure to Nephrotoxic Drugs and Risk of Chronic Kidney Disease	Paul Vos PI	High Point University	2016- 09-01	2019- 08-31	0	Submitted - Not Funded	Fall 2019	The above URL provides a link to the ECUBIC Proposal Abstract Report	
Proposal No:16-0511 - Impact of Pharmacist-Provided Adherence Counseling and Medication Therapy Management in Patients with Food Insecurity	Paul Vos PI	High Point University	2016- 06-01	2018- 05-31	0	Submitted - Not Funded	Fall 2019	The above URL provides a link to the ECUBIC Proposal Abstract Report	
Proposal No:17-0257 - University of Florida sub	Paul Vos CoPI Elizabeth H Chaney PI Jerry D Chaney CoPI	University of Florida	2017- 07-01	2019- 06-30	0	Submitted - Not Funded	Fall 2019	The above URL provides a link to the ECUBIC Proposal Abstract Report	
Proposal No:18-0222 - Tumor vaccination with 15dPMJ2: assessment of DAMP-ICD induction in melanoma	Paul Vos CoPI Rukiyah Van Dross PI Kymberly M Gowdy CoPI	UNC-CH Lineberger Comprehensive Cancer Center	2018- 01-01	2019- 05-31	2018- 11-14	\$50,000.00	Completed	Summer 2019	The above URL provides a link to the ECUBIC Proposal Abstract Report
Proposal No:17-0583 - Novel role for CD163 in ozone induced alterations of pulmonary immunity	Paul Vos Senior/Key Participant Kymberly M Gowdy PI Sky W Reece CoPI	National Institutes of Health (NIH)	2017- 09-01	2022- 08-31	0	Submitted - Not Funded	Spring 2019	The above URL provides a link to the ECUBIC Proposal Abstract Report	
Proposal No:19-0082 - Rural Education National Research and Development Center	Paul Vos CoPI Jessica R Chittum-Okyen CoPI Lonika R Crumb Senior/Key Participant Robert M Reardon CoPI Margaret K Cowan Cuthrell PI	DOED Institute of Education Sciences (IES)	2019- 01-01	2023- 12-31	0	Submitted - Not Funded	Spring 2019	The above URL provides a link to the ECUBIC Proposal Abstract Report	
Proposal No:16-0081 - Scavenger receptor BI regulates oxidized lipid driven pulmonary and vascular inflammation after ozone exposure	Paul Vos CoPI Kymberly M Gowdy PI	Health Effects Institute	2015- 10-01	2019- 02-28	2018- 12-20	\$299,336.00	Completed	Spring 2019	The above URL provides a link to the ECUBIC Proposal Abstract Report
Proposal No:17-0376 - The Prescribed Exercise to Reduce Recidivism After Weight Loss v2	Paul Vos CoPI Damon Swift PI Joseph A Houmard CoPI Walter J Pories CoPI Laura E Matarese CoPI Robert A Carels CoPI	National Institutes of Health (NIH)	2018- 04-01	2023- 03-31	0	Submitted - Not Funded	Fall 2017	The above URL provides a link to the ECUBIC Proposal Abstract Report	

Proposal No:17-0395 - Project INTERSECT: Interactive STEM Education Competence in Teaching	Paul Vos CoPI Christine M Wilson CoPI Carrie W Lee CoPI Daniel L Dickerson PI Ricky T Castles CoPI Holly Fales CoPI	National Science Foundation (NSF)	2017-08-15	2020-08-14	2017-08-18	\$599,939.00	Funded - In Progress	Fall 2017	The above URL provides a link to the ECUBIC Proposal Abstract Report
Proposal No:16-0709 - Implementation of a Body-Worn Camera Program: A Process Evaluation and a Comparison Study Using Body-Worn Camera Footage	Paul Vos CoPI Heidi S Bonner PI	DOJ National Institute of Justice (NIJ)	2017-01-01	2019-12-31		0	Submitted - Not Funded	Fall 2016	The above URL provides a link to the ECUBIC Proposal Abstract Report

Other Grants/Contracts and Awards

Proposal/Award Status	Title	Sponsor	Collaborator 1 Name	Collaborator 1 Role	Collaborator 2 Name	Collaborator 2 Role	Collaborator 3 Name	Collaborator 3 Role	Collaborator 4 Name	Collaborator 4 Role	Collaborator 5 Name	Collaborator 5 Role	Start Semester	End Semester
Proposal Submitted for Review	Geometric and Topological Data Science Institute (GTDSI)	GOV- National Science Foundation (NSF)	Paul Vos										Fall 2016	Spring 2017
Proposal Submitted for Review	Project Intersect	GOV- National Science Foundation (NSF)	Daniel Dickerson		Paul Vos								Fall 2016	Spring 2017
Proposal Submitted for Review	CD163 and ozone exposure	GOV- National Institutes of Health(NIH)	Kim Gowdy		Paul Vos								Fall 2016	Spring 2017
Award Funded-Completed	HI-PACE	NIH	Paul Vos										Spring 2017	Spring 2017
Award Funded-Completed	Scavenger receptor BI regulates oxidized lipid induced inflammation after ozone exposure	Health Effects Institute	Paul Vos										Spring 2017	Spring 2017
Proposal Submitted for Review	Evaluation of BWC Program	Evaluation of BWC Program	Paul Vos										Spring 2016	Spring 2016
Proposal Submitted for Review	Impact of Pharmacist- Provided Adherence Counseling and Medication Therapy for patients with food insecurity	Highpoint Univ	Paul Vos										Spring 2016	Spring 2016
Proposal Submitted for Review	Impact of Pharmacist- Provided Adherence Counseling and Medication Therapy	Highpoint Univ	Paul Vos										Spring 2016	Spring 2016
Award Funded-Completed	Scavenger receptor BI regulates oxidized lipid induced inflammation after ozone exposure	Health Effects Institute	Paul Vos										Spring 2016	Spring 2016
Proposal Submitted for Review	Oral health effects of e-cigarette exposure	NIH	Paul Vos										Spring 2016	Spring 2016
Award Funded-Completed	HI-PACE	NIH	Paul Vos										Spring 2016	Spring 2016
Proposal Submitted for Review	PREVAIL	NIH	Paul Vos										Spring 2016	Spring 2016
Award Funded-Completed	Teacher Quality and Student Achievement: A Comprehensive Data-Driven School-University Approach to P-16 Reform.	GOV- Department of Education (DE)	Paul Vos										Spring 2015	Spring 2016

Award Funded- -Completed	Title III - Achieving Student Academic Success Through Improved Planning and Assessment.		Jason Brinkley	Paul Vos		Spring 2014	5 2
Award Funded- -Completed	Teacher Quality and Student Achievement: A Comprehensive Data-Driven School- University Approach to P- 16 Reform.	GOV- Department of Education (DE)		Paul Vos		Spring 2014	5 2
Award Funded- -Completed	Teacher Quality and Student Achievement: A Comprehensive Data-Driven School- University Approach to P- 16 Reform.	GOV- Department of Education (DE)		Paul Vos		Spring 2013	5 2
Award Funded- -Completed	Title III - Achieving Student Academic Success Through Improved Planning and Assessment.		Jason Brinkley	Paul Vos		Spring 2013	5 2
Award Funded- -Completed	Teacher Quality and Student Achievement: A Comprehensive Data-Driven School- University Approach to P- 16 Reform.	GOV- Department of Education (DE)		Paul Vos		Spring 2012	5 2
Proposal Submitted for Review	agromed NIOSH: Mid Atlantic Center for Agriculture Safety and Health	GOV- National Institute for Occupational Safety and Health (NIOSH)	Ernest Hodgson	Robin Tutor		Spring 2011	5 2
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	Terry Jones	Sue Leach	Paul Vos	Spring 2010	5 2
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)	Terry Jones	Sue Leach	Paul Vos	Spring 2010	5 2

Institutional Committees

University

Committee Name: IDPBBC for Kylie Cashwell Unit: East Carolina University Start Semester: Spring 2025 End Semester: Ongoing

Committee Name: DrPH (HPAL) committee for Christina Schreckengaust Unit: East Carolina University Start Semester: Spring 2025 End Semester: Ongoing

Committee Name: BIOS faculty Search Unit: East Carolina University Start Semester: Fall 2023 End Semester: Ongoing

Committee Name: DrPH (HPAL) committee for Christine Wanous Unit: East Carolina University Start Semester: Fall 2023 End Semester: Spring 2025

Committee Name: DrPH for Danielle Dillane Unit: East Carolina University Start Semester: Fall 2020 End Semester: Spring 2022

Committee Name: HSIM Chair Search Unit: East Carolina University Start Semester: Fall 2020 End Semester: Spring 2021

Committee Name: Masters for Lea Taylor Meeks (OT) Unit: East Carolina University Start Semester: Fall 2017 End Semester: Fall 2017

Committee Name: Masters for Sarah Holt (OT) Unit: East Carolina University Start Semester: Fall 2017 End Semester: Fall 2017

Committee Name: Masters for Amber Faust (OT) Unit: East Carolina University Start Semester: Fall 2017 End Semester: Fall 2017

Committee Name: Doctoral for Sarah Faucette (CSDI) Unit: East Carolina University Start Semester: Fall 2017 End Semester: Spring 2018

Committee Name: Institutional Review Board (IRB) Unit: East Carolina University Start Semester: Fall 2017 End Semester: Ongoing

Committee Name: Survey Review & Oversight Committee Unit: East Carolina University Start Semester: Fall 2017 End Semester: Ongoing

Committee Name: School of Public Health Implementation Committee Unit: East Carolina University Start Semester: Fall 2017 End Semester: Spring 2018

Division

Committee Name: Implementation Committee for the School of Rural Public Health Unit: Division of Academic Affairs - Health Sciences Units Start Semester: Summer 2019 End Semester: Spring 2021

College

No activities entered.

Department

Committee Name: Faculty Workload Unit: Public Health Start Semester: Fall 2022 End Semester: Spring 2025

Committee Name: Curriculum Committee Unit: Public Health Start Semester: Fall 2022 End Semester: Ongoing

Committee Name: Personnel Committee Unit: Public Health Start Semester: Fall 2022 End Semester: Ongoing

Committee Name: Promotion Committee Unit: Public Health Start Semester: Fall 2022 End Semester: Ongoing

Committee Name: Faculty Search Committee Unit: Public Health Start Semester: Summer 2022 End Semester: Fall 2022

Committee Name: Faculty Search Committee Unit: Clinical Laboratory Science Start Semester: Spring 2018 End Semester: Spring 2018

Discipline

No activities entered.

Institutional Committees Prior to Fall 2017

Committee Name: Public Health Implementation Start Semester: Fall 2016 End Semester: Spring 2017 Level: University Role: Member

Committee Name: SROC (Survey Research Oversight Committee) Start Semester: Fall 2016 End Semester: Spring 2017 Level: University Role: Member

Committee Name: UMCIRB Start Semester: Fall 2016 End Semester: Spring 2017 Level: University Role: Member

Committee Name: Faculty Salary Advisory Start Semester: Fall 2016 End Semester: Spring 2017 Level: University Role: Member

Committee Name: SROC (Survey Research Oversight Committee) Start Semester: Fall 2015 End Semester: Spring 2016 Level: University Role: Member

Committee Name: UMCIRB Start Semester: Fall 2015 End Semester: Spring 2016 Level: University Role: Member

Committee Name: UMCIRB Start Semester: Fall 2014 End Semester: Spring 2015 Level: University Role: Member

Committee Name: SODM search committee for epidemiologist Start Semester: Fall 2014 End Semester: Spring 2015 Level: College Role: Member

Committee Name: SROC (Survey Research Oversight Committee) Start Semester: Fall 2014 End Semester: Spring 2015 Level: University Role: Member

Committee Name: SODM search committee for epidemiologist Start Semester: Fall 2013 End Semester: Spring 2014 Level: College Role: Member

Committee Name: UMCIRB Start Semester: Fall 2013 End Semester: Spring 2014 Level: University Role: Member

Committee Name: UMCIRB Start Semester: Fall 2012 End Semester: Spring 2013 Level: University Role: Member

Committee Name: UMCIRB Start Semester: Fall 2012 End Semester: Spring 2013 Level: University Role: Member

Committee Name: UMCIRB Start Semester: Fall 2011 End Semester: Spring 2012 Level: University Role: Member

Committee Name: UMCIRB Start Semester: Fall 2010 End Semester: Spring 2011 Level: University Role: Member

Committee Name: Thesis Committee for John Anema (REHB -- Goodwin) Start Semester: Fall 2010 End Semester: Spring 2011 Role: Member

Committee Name: Thesis Committee for Donna Wolfe (CSDI -- Walker) Start Semester: Fall 2010 End Semester: Spring 2011 Role: Member

Committee Name: Thesis Committee for Kun Yu (CSDI -Hough) Start Semester: Fall 2010 End Semester: Spring 2011 Role: Member

Committee Name: Thesis Committee for Caitlin Webb (CSDI -Laura Ball) Start Semester: Fall 2010 End Semester: Spring 2011 Role: Member

Committee Name: Thesis Committee for Sarah Williamson (CSDI -Laura Ball advisor) Start Semester: Fall 2010 End Semester: Spring 2011 Role: Member

Committee Name: Thesis Committee for Ryan Hill (Health and Human Performance) Start Semester: Fall 2010 End Semester: Spring 2011 Role: Member

Committee Name: Thesis Committee for Jacqueline Dorry Start Semester: Fall 2010 End Semester: Spring 2011 Role: Member

Committee Name: MPH Executive Committee Start Semester: Fall 2009 End Semester: Spring 2010 Level: Department Role: Member

Committee Name: UMCIRB Start Semester: Fall 2009 End Semester: Spring 2010 Level: University Role: Member

Committee Name: Thesis Committee for Ryan Hill (Health and Human Performance) Start Semester: Fall 2009 End Semester: Spring 2010 Role: Member

Committee Name: Thesis Committee for Sarah Williamson (CSDI -Laura Ball advisor) Start Semester: Fall 2009 End Semester: Spring 2010 Role: Member

Committee Name: Thesis Committee for Caitlin Webb (CSDI -Laura Ball) Start Semester: Fall 2009 End Semester: Spring 2010 Role: Member

Committee Name: Thesis Committee for Kun Yu (CSDI -Hough) Start Semester: Fall 2009 End Semester: Spring 2010 Role: Member

Committee Name: Thesis Committee for Donna Wolfe (CSDI -- Walker) Start Semester: Fall 2009 End Semester: Spring 2010 Role: Member

Committee Name: Thesis Committee for Jennifer Lemkes (CSDI - Ball) Start Semester: Fall 2009 End Semester: Spring 2010 Role: Member

Committee Name: Thesis Committee for John Anema (REHB -- Goodwin) Start Semester: Fall 2009 End Semester: Spring 2010 Role: Member

Committee Name: Thesis Committee for Courtney Keener (OCTP -- Velde) Start Semester: Fall 2009 End Semester: Spring 2010 Role: Member

Committee Name: Thesis Committee for Jacqueline Dorry Start Semester: Fall 2009 End Semester: Spring 2010 Role: Member

Committee Name: Research and Scholarly Activities Start Semester: Fall 2009 End Semester: Spring 2010 Level: College Role: Member

Committee Name: Research and Scholarly Activities Start Semester: Fall 2008 End Semester: Spring 2009 Level: College Role: Member

Committee Name: Hearing and Appeals Start Semester: Fall 2008 End Semester: Spring 2009 Level: College Role: Member

Committee Name: UMCIRB Start Semester: Fall 2008 End Semester: Spring 2009 Level: University Role: Member

Committee Name: Institutional Review Board Start Semester: Fall 2007 End Semester: Spring 2008 Level: University Role: Member

Committee Name: Center for Faculty Excellence Search Committee Start Semester: Fall 2007 End Semester: Spring 2008 Level: University Role: Member

Committee Name: Diversity Start Semester: Fall 2007 End Semester: Spring 2008 Level: College Role: Member

Committee Name: Research and Scholarly Activities Start Semester: Fall 2007 End Semester: Spring 2008 Level: College Role: Member

Committee Name: Hearing and Appeals Start Semester: Fall 2007 End Semester: Spring 2008 Level: College Role: Member

Other Institutional Service

Title	Unit	Description	Start Semester	End Semester	University Service Type	Service Roles
Judge for CAHS research day	East Carolina University		Spring 2018	Spring 2018	Unit Special Event	Adjudicator/Judge
Statistical Consulting	East Carolina University		Fall 2017	Spring 2022	Statistical Consulting	Consultant
Statistical Consulting	East Carolina University	Delivered 212 hours of consultation from Apr 2016 thru Mar 2017.	Fall 2016	Spring 2017	Other Institutional Service Activities	
Statistical Consulting Director	East Carolina University	Duties include assigning and managing consulting requests from the university to faculty members in the department of Biostatistics	Fall 2016	Spring 2017	Other Institutional Service Activities	
Statistical Consulting Director	East Carolina University	Duties include assigning and managing consulting requests from the university to faculty members in the department of Biostatistics	Fall 2015	Spring 2016	Other Institutional Service Activities	
Statistical Consulting	East Carolina University	Delivered 225 hours of consultation from Apr 2015 thru Mar 2016.	Fall 2015	Spring 2016	Other Institutional Service Activities	
Workshop for Summer Biomedical Research Program	East Carolina University	Dr. Van Dross (Pharmacy) is the coordinator.	Fall 2014	Spring 2015	Other Institutional Service Activities	
Statistical Consulting	East Carolina University	Delivered 225 hours of consultation from Apr 2015 thru Mar 2016.	Fall 2014	Spring 2015	Other Institutional Service Activities	
Statistical Consulting Director	East Carolina University	Duties include assigning and managing consulting requests from the university to faculty members in the department of Biostatistics	Fall 2014	Spring 2015	Other Institutional Service Activities	
Statistical Consulting Director	East Carolina University	Duties include assigning and managing consulting requests from the university to faculty members in the department of Biostatistics	Fall 2013	Spring 2014	Other Institutional Service Activities	
Statistical Consulting	East Carolina University	Delivered 225 hours of consultation from Apr 2015 thru Mar 2016.	Fall 2013	Spring 2014	Other Institutional Service Activities	
Workshop for Summer Biomedical Research Program	East Carolina University	Dr. Van Dross (Pharmacy) is the coordinator.	Fall 2013	Spring 2014	Other Institutional Service Activities	
Statistical Consulting Director	East Carolina University	-- Assign projects to faculty based on factors that include expertise and workload of the faculty member -- Maintain a record of consulting hours for individual faculty and for projects -- Advise faculty on projects	Fall 2012	Spring 2013	Other Institutional Service Activities	
Statistical Consulting Director	East Carolina University	Duties include assigning and managing consulting requests from the university to faculty members in the department of Biostatistics	Fall 2012	Spring 2013	Other Institutional Service Activities	
Workshop for Summer Biomedical Research Program	East Carolina University	Dr. Van Dross (Pharmacy) is the coordinator.	Fall 2012	Spring 2013	Other Institutional Service Activities	
Workshop: Present two 3 hour workshops for CFE	East Carolina University		Fall 2011	Spring 2012	Other Institutional Service Activities	
Workshop: Presented two 2 hour workshops for Vidant/Rehab	East Carolina University		Fall 2011	Spring 2012	Other Institutional Service Activities	
Statistical Consulting Director	East Carolina University	-- Assign projects to faculty based on factors that include expertise and workload of the faculty member -- Maintain a record of consulting hours for individual faculty and for projects -- Advise faculty on projects	Fall 2011	Spring 2012	Other Institutional Service Activities	
Statistical Consulting	East Carolina University	Delivered over 240 hours of consulting (1 Apr 2010 - 31 Mar 2011).	Fall 2010	Spring 2011	Other Institutional Service Activities	
Statistical Consulting	East Carolina University	Director-- Assign projects to faculty based on factors that include expertise and workload of the faculty member -- Maintain a record of consulting hours for individual faculty and for projects-- Oversee web form for consulting requests-- Advise faculty on projects	Fall 2010	Spring 2011	Other Institutional Service Activities	
Workshop	East Carolina University	Presented 3 hour workshop for CFE on Inferential Statistics	Fall 2010	Spring 2011	Other Institutional Service Activities	
Statistical Consulting Service	East Carolina University	Consulting -- Delivered 193 hours of consulting to CAHS and other ECU colleges and schools from 1 Apr 2009 through 31 Mar 2010.	Fall 2009	Spring 2010	Other Institutional Service Activities	

Jan 2022 - Dec 2022 Journal, Information Geometry,
Description:
Review submission by J.
[Service Roles: Reviewer] [Publicly Displayed: Yes]
Journal, Information Geometry,
Description:
Review submission by M.
[Service Roles: Reviewer] [Publicly Displayed: Yes]

Jan 2018 - May 2018 referee, once,
Description:
Served as referee for the journal *Science*
[Service Roles: Reviewer] [Publicly Displayed: Yes]

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 Communications in Statistics
Referee for JRSS B

Jan 2012 - May 2012 Referee for JRSS B

Jan 2011 - May 2011 Referee for JRSS B
Referee for The American Statistician

Aug 2010 - May 2011 Stat Consultant for Rehab Journal (Paul Alston is Editor)

Aug 2009 - May 2010 David Byar Young Investigator Award

Jan 2010 - May 2010 Conference/Symposium/Workshop, CFE Summer Statistics Workshop [Service Roles: Presenter]

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. Bielak, Ph.D., Scientific Review Administrator, Special Review and Resources Branch, E-Mail: bielatk@mail.nih.gov

Community Service

Type	Occasion	Description	City	State	County	Start Semester	End Semester	Service Roles
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Professional Development

Type	Conference/Activity Title	Continuing Ed. Unit	Number of Units	Description	Start Semester	End Semester
Professional Development related to Teaching	Elevating Your Assessments in Canvas through New Quizzes			Delivered by Matt Long on 2/28/2024	Spring 2024	Spring 2024
Professional Development related to Scholarship	RSS 2008 Conference -- Univ of Nottingham		\$0.00	Attended as part of a 10 day trip studying applications of geometry to statistics with Frank Critchley, Paul Marriot, and Karim Anaya-Izquierdo	Fall 2008	Spring 2009

Professional Memberships

Organization	Active	Start Semester	End Semester
International Chinese Statistical Association	No	Fall 2016	Fall 2018
American Statistical Association	Yes	Fall 1987	Ongoing
Institute of Mathematical Statistics	Yes	Fall 1987	Ongoing

Honors and Awards

Title	Awarding Agency	Description	Semester	Publicly Displayed
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Biography

Biography

Expertise and Interests

Teaching Interests	Research Interests	Languages and Other
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