

**Nomination for USASP Board of Directors # 2**  
**Evidence of eligibility for Board of Directors**

**Nominee:** Edwin N. Aroke, PhD, CRNA, FAANA, FAAN

An active member of USASP in good standing

Currently serve on the following committees,

- Committee on Committees
- Diversity, Inclusion, and Anti-Racism in Pain SIG
- Clinical and Translational Research SIG

Recent experience working in comparable committees in other organizations

- Evaluation and Research Advisory Committee of the National Board on the Certification and Recertification of Nurse Anesthetists (NBCRNA).
- Diversity, Equity, and Inclusion Committee of the American Association of Nurse Anesthetists (AANA)
- President Association of Cameroonian Nurse Anesthetists in America (ACNAA)
- American Nurses Association Commission to Address Racism in Nursing – Expert on Research Workgroup
- Workplace Civility Task Force – A collaboration between American Association of Nurse Anesthetists (AANA), Association of PeriOperative Registered Nurses (AORN) and American Society of PeriAnesthesia Nurses (ASPAN)

## **Aroke - Personal Statement**

Among my credentials are Fellow of the American Academy of Nursing, Fellow of American Association of Nurse Anesthesiology, Certified Registered Nurse Anesthetist (CRNA), Associate Professor (Tenured) of Nursing, Director of the PhD Program, and Scientists in the Center for Clinical and Translational Sciences (CCTS) at the University of Alabama at Birmingham (UAB). Improving pain management and health equity fuels my professional career focusing on two interrelated areas: research on mechanisms that causes and sustain chronic pain disparities and national policies to address health disparities. This passion drives my quest to serve on the USASP Board of Directors as an individual whose primary research focuses on basic science in human.

Working as a CRNA in the deep south gives me firsthand exposure to the burden of chronic pain in racialized minorities and the challenges of chronic pain management. My NIH-funded research program uses a multi-omics approach to examine the mechanisms undergirding racial disparities in pain. My work has uncovered that differential gene methylation in stress-related pathways correlates with chronic low back pain disparities. While findings like these can inform interventions to improve pain management, I appreciate the need for policies that address the root causes of disparities and promote health equities.

My service through professional organizations has contributed to policies addressing health disparities. Here are some examples: as a member of the USASP Pain Justice League, we published a three-part series bringing forth racism in pain research and suggesting the need for an anti-racism approach. I served as a content expert on the Research Workshop of the American Nurses Association Commission to Address Racism in Nursing, where we identified strategies to eliminate racism in nursing and nursing research. My contributory leadership as chair of the English as Second Language (ESL) subcommittee of the Evaluation and Research Advisory Committee (ERAC) of the National Board of Certification and Recertification for Nurse Anesthetists (NBCRNA) informed national policy guiding national credentialing examination for nurse anesthesia students and CRNAs. Also, serving on the American Association of Nurse Anesthesiology (AANA) and USASP Diversity, Equity, Inclusion and Antiracism Committee, my contributory leadership impacted policies to increase diversity in health and address health disparities.

Building on experience, I would like to serve as a member of the USASP Board of Directors to advance policies ensuring that current and future pain researchers and clinicians use contemporary approaches to improve pain outcomes for individuals of diverse backgrounds. Specifically, my unique background (CRNA, genomics pain disparities researcher, and national leadership in professional organizations) will significantly contribute to USASP's mission "to reduce the burden of pain" and advance pain equity.

As one of less than 10 Ph.D.-prepared Black male CRNAs in the U.S., and the only one with an actively funded research program, I understand the challenge of setting a vision that motivates professionals. As co-founder of the Association of Cameroonian Nurse Anesthetists in America, I have successfully rallied others towards a common goal. I also have a consistent record of mentoring and educating diverse nurses, CRNAs, and healthcare students. Thus, I bring a rich and varied leadership background to my role on the Board. I humbly request an opportunity to contribute substantially toward policies to provide pain relief for everyone in the U.S.

# CURRICULUM VITAE

**NAME:** Edwin N. Aroke, Ph.D., CRNA, FAANA, FAAN

**CREDENTIALS:** Certified Registered Nurse Anesthetists (CRNA) Licensed in AL  
Registered Nurse (RN) Licensed in AL

## EDUCATION

<u>Institution</u>	<u>Discipline</u>	<u>Degree</u>	<u>Year Conferred</u>
University of Massachusetts	Nursing – Focus on Pharmacogenetics	Ph.D.	2016
Duke University	Nurse Anesthesia	MSN	2011
Salem State College	Nursing – <i>Summa Cum Laude</i>	BSN	2006
University of Buea	Biochemistry	BSc. (Hons)	2002
	~Minor in Medical Laboratory Technology		

## OTHER TRAINING

Canadian Bioinformatics Workshops	Epigenomic Data Analysis		10/2020
UAB Center for Clinical and Translational Science	Learn Enhance Advance Drive (LEAD) Program		04/2020
National Institutes of Health (NIH)/NIMHD	Health Disparities Research Institute		08/2019
Purdue University	Big Data Training for Translational Omics Research		05/2019
NIH/FAES	Epigenetics		12/2018
UAB Center for Clinical and Translational Science	Clinical Investigator Training Program (CITP) certificate		04/2018
UAB Center for Teaching and Learning	Center for Teaching and Learning (CTL) Teaching certificate		04/2018
UAB Office of Inter-professional Simulation for Innovative Clinical Practice	SIM 1 & 2 Certificate		09/2007 & 02/2018
NIH/NINR	Precision Health: From ‘Omics’ to Data Science		08/2017
NIH/NINR	NINR Summer Genetics Institute		06/2014

## PROFESSIONAL EXPERIENCE

<u>Year(s)</u>	<u>Title</u>	<u>Institution/Agency Name and Location</u>
<b>Academic Position</b> 10/2021 – Present	Associate Professor (Tenured)	UAB School of Nursing; Birmingham, AL

08/2022 – Present	Director	PhD Program, UAB School of Nursing, Birmingham, AL
02/2022 – Present	Director	Dual DNP-PhD Pathway, UAB School of Nursing, Birmingham, AL
08/2021 – Present	Academic Integrity Officer	Doctoral Programs, UAB School of Nursing; Birmingham AL
2018 – Present	Graduate Faculty	The Graduate School, UAB, Birmingham, AL
06/2022 – Present	Scientist	UAB Center for Clinical and Translational Science (CCTS)
10/2018 – Present	Associate Scientist	UAB Comprehensive Arthritis, Musculoskeletal, Bone, and Autoimmunity Center
10/2018 – Present	Associate Scientist	UAB Minority Health and Health Disparities Research Center
07/2017 – 10/2021	Assistant Professor	UAB School of Nursing; Birmingham, AL

### **Clinical Position**

07/2017 - Present	Certified Registered Nurse Anesthetists	UAB Hospital; Birmingham, AL
06/2011 – 07/2017	Certified Registered Nurse Anesthetists	UMass Memorial Medical Center; Worcester, MA
09/2008 – 12/2008	Critical Care Nurse, Cardiac ICU	Duke University Hospital; Durham, NC
02/2007 – 09/2008	Critical Care Nurse, ICU	NSMC Salem Hospital; Salem, MA

### **HONORS AND AWARDS**

2022	Fellow, American Association of Nurse Anesthesiology (FAANA), Chicago, IL
2022	NIH Pain Consortium Mitchell Max Award for Research Excellence, Bethesda, MD
2022	3 <sup>rd</sup> Place Poster Award, 14 <sup>th</sup> World Congress of Nurse Anesthetists, Sibenik, Croatia
2021	Fellow, American Academy of Nursing, Washington, DC
2021	Researcher of the Year, American Association of Nurse Anesthetists (AANA) Foundation
2021	Mary Hanna Memorial Journalism Award, American Society of PeriAnesthesia Nursing (ASPAN).
2020	Didactic Faculty of the Year, American Association of Nurse Anesthetists (AANA) Chicago, IL
2020	Presenter Goldie Brangman Diversity and Inclusion Lecture, AANA Virtual Annual Congress
05/2020	Graduate Clinical Faculty of the Month, UAB School of Nursing, Birmingham, AL
2019	Selected for the LEAD Scholar Program, CCTS, UAB
2019	Health Disparities Research Institute Scholar, NIH/NIMHD, Bethesda, MD
2018	Selected for the Clinical Investigator Training Program (CITP), CCTS, UAB
2018	Post-Doctoral Fellowship, American Association of Nurse Anesthetists Foundation, Chicago, IL
2018	Association of Cameroonian Nurse Anesthetists in America Founders Club, Houston, TX

- 2016 Chancellor's Award, University of Massachusetts, Worcester, MA
- 2014 Emerging Scholar Award, International Society of Nurses in Genetic (ISONG),
- 2014 Fairlawn Scholar Award, University of Massachusetts, Worcester, MA
- 2013 CRNA of the Month, Diversity in Nurse Anesthesia Mentorship Program, Worcester, MA
- 2013 Fairlawn Scholar Award, University of Massachusetts, Worcester, MA
- 2011 Annie Beery Award for Outstanding Leadership, Duke University, Durham, NC
- 2011 Sigma Theta Tau Thelma Ingles Award for Outstanding Clinical skills and Scholarly Accomplishment, Duke University, Durham, NC
- 2011 CRNA of the month, Diversity in Nurse Anesthesia Mentorship program, Durham, NC
- 2011 Nurse Anesthesia Students Representative to Graduate and Professional Students Council, Duke University, Durham, NC
- 2010 Herman and Rose Krebs Scholarship Award, Duke University, Durham, NC
- 2010 Nurse Anesthesia Students Representative to Graduate and Professional Students Council, Duke University, Durham, NC
- 2010 Andrew Cmelko, CRNA Memorial Scholarship Award, AANA Foundation,
- 2009 Herman and Rose Krebs Scholarship Award, Duke University, Durham, NC
- 2009 Mary Manning Hester Scholarship Award, Duke University, Durham, NC
- 2008 Mary Manning Hester Scholarship Award, Duke University, Durham, NC
- 2007 Bachelor of Science in Nursing- with Highest Honors (Summa Cum Laude), Salem State College, Salem, MA
- 2006 The Honor Society of Phi-Kappa-Phi, Phi-Kappa-Phi,
- 2006 The Honor Society of Nursing, Sigma Theta Tau International,
- 2002 Bachelor of Science in Nursing with Honors in Biochemistry, University of Buea,

## **LEADERSHIP ACTIVITIES**

- 2021 - Present Association of Cameroonian Nurse Anesthetists in America, President
- 2021 – Present American Nurses Association, Commission to Address Racism in Nursing. Subject Matter Expert, Nursing Research Workgroup.
- 2021 - 2022 National Board for Certification and Re-certification of Nurse Anesthetists (NBCRNA), Evaluation and Research Advisory Committee, Chair to English as Second Language Subcommittee
- 2020 - 2021 American Association of Nurse Anesthetists (AANA), Association of PeriOperative Registered Nurses (AORN), and American Society of PeriAnesthesia Nurses (AsPAN) Joint Taskforce on Civility
- 2019 - 2021 NBCRNA, Evaluation and Research Advisory Committee, Liaison to English as Second Language Subcommittee
- 2019 - 2021 American Association of Nurse Anesthetists (AANA), Diversity, Equity, and Inclusion Committee

2018 – 2020	NBCRNA, Evaluation and Research Advisory Committee, Methods of Assessment Subcommittee
2017 - Present	NBCRNA, Evaluation and Research Advisory Committee
2018 - 2021	UAB African American Faculty Association (AAFA), Liaison to School of Nursing
2017 - 2021	Association of Cameroonian Nurse Anesthetists in America, Vice President
2015 - 2015	University of Massachusetts, Worcester, Search Committee Dean of the Graduate School of Nursing
2014 - 2015	University of Massachusetts Medical School, Worcester, Committee for Scientific and Research Affairs (Scientific Council)
2009 - 2010	Duke University SRNA Association, Secretary
2003 - 2017	LDA New England Inc, Lebialem Development Association (LDA), Board of Trustee

## **RESEARCH/GRANT ACTIVITIES**

### Extramural Grants

National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS). Epigenetic Differences in Stress-Related Genes in Transgender Minorities. Amount: \$93,846 Status: Funded. Administrative Supplement, Dates: 09/2022 – 10/2023. **Role PI**

National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS). Epigenomic and Gene Expression Signatures of Racial Differences in Chronic Low Back Pain. Amount: \$1,698,483 Status: Funded. R01AR079178, Dates: 04/2021 – 03/2025. **Role PI**

National Institute on Aging (NIA). Epigenetic Age Acceleration Impacts Racial and Neighborhood Disparities in Chronic Low Back Pain. Amount Awarded: \$49,421, Status: Funded, 1R36AG077084-01, Dates of Award: 04/2022 -03/2023. **Role: Mentor/Co-Investigator**

National Institute on Minority Health and Health Disparities (NIMHD). Exploring Epigenetics of Racial and Socioeconomic Differences in Chronic Low Back Pain. Amount Awarded: \$261,361, Status: Funded, 3R01MD010441-03S1, Dates of Award: 02/2019 -03/2021. **Role: Diversity Supplement Recipient**

American Association of Nurse Anesthetists (AANA) Foundation. An Exploration of the Relationships Between Culture of Safety, Production Pressure, Occupational Burnout, and Patient Safety. Amount Awarded: \$5,200, Status: Funded, 2020-G-5, Dates of Award: 08/2020 – 09/2021. **Role Co-investigator**

American Association of Nurse Anesthetists (AANA) Foundation. Epigenetic Changes and Racial Disparities in Chronic Low Back Pain. Amount Awarded: \$35,000, Status: Completed. 2018-FS-4, Dates of Award: 08/2018 – 10/2019. **Role: PI**

### Intramural Grants

Center for Addiction, Pain Prevention and Intervention (CAPPI). Gene expression correlations in obesity and pain among African Americans. Amount Awarded: \$20,000, Status: Awarded. Dates of Award: 10/2020 – 09/2021. **Role PI**

Obesity Health Disparities Research Center (OHDRC). Using an epigenomic approach to explore the obesity-pain link among African Americans. Amount Awarded: \$50,000, Status: Awarded. Dates of Award: 10/2020 – 09/2021. **Role: PI**

UAB Faculty Development Grant Program. Exploring Pain Management Decision Making Among Anesthesia Providers. Amount Awarded: \$8,100, Status: Awarded, Dates of Award: 09/2020 – 10/2021. **Role: PI**

UAB School of Nursing Dean's Scholar Award. A Pilot Study of Epigenetics Changes in Chronic Low Back Pain. Amount Awarded: \$20,000, Status: Completed, Dates of Award: 10/2018 – 04/2020. **Role: PI**

UAB Department of Anesthesiology and Perioperative Medicine Research Start-up Support. Amount Awarded: \$20,000, Status: Completed, Dates of Award: 07/2017. **Role: PI**

#### Grants Under Review

National Institute of Nursing Research (NINR). Sex, Hormones and Identity affect Nociceptive Expression (SHINE). R01 Grant. **Role: Co-investigator**

### PUBLICATIONS (\*denotes student)

#### Articles in Preparation

Powell-Roach, K. L., Goodin, B.R., & **Aroke, E.N.** Identification of key pathways based on differentially methylated genes associated with depressive symptoms in adults with non-specific chronic low back pain.

**Aroke, E.N.** \*Overstreet, D. & Goodin, B.R. Differentially methylated inflammatory genes and levels of plasma inflammatory cytokines in adults with chronic low back pain.

**Aroke, E.N.** et al. Epigenome wide DNA methylation profiling of individuals and community level socioeconomic status among adults with chronic low back pain

#### Submitted Articles

**Aroke, E.N.**, \*Hobson, J.M., Ptacek, T. \*Jackson, P. & Goodin, B.R. Genome-Wide DNA Methylation Study Identifies Significant Epigenomic Changes Associated with Internalized Stigma in Adults with Non-Specific Chronic Low Back Pain. *Frontiers in Pain Research*

Jackson, P., Larkin, D., Kinnie, K.R., & **Aroke, E.N.** Heat Islands and Chronic Disease: Could African Americans Be More Vulnerable to Heat-Related Health Impacts? *NBNA Journal*

Gould, W., Simmons, V.C., Damico, N.K., Hu, J. & **Aroke, E.N.** Addressing Structural and Systemic Barriers in Nurse Anesthesia Programs: An Increase in Number of Programs Eliminating GRE. *Nursing Outlook Journal*

\*Strath, L., Overstreet, D.S., \*Hasan, F., Sorge, R., \*Penn, T., Rumble, D. **Aroke, E.N.**, \*Wiggins, A., Dembowski, J., Bajaj, E., Quinn, T., Long, D., & Goodin, B. Circulating Vitamin D levels are Associated with Greater Pain Severity in Community-Dwelling Individuals with Chronic Low Back Pain. *Journal of Racial and Ethnic Health Disparities*

\*Biel, E., **Aroke, E.N.**, Maye, J. & Zhang, S.J. The Application of Cryoneurolysis for Acute and Chronic Pain Management. *Pain Practice*.

#### Published Refereed Articles

1. \*Robinson, A., \*Pham, N.M., \*Burke, E.J., \*Long, C., Teschel, D.E. & **Aroke, E.N.** Evaluating the Utilization of a Perioperative Hyperglycemic Protocol: A Quality Improvement Project. *Journal of PeriAnesthesia Nursing [ACCEPTED]*
2. Thurston, K., Zhang, S.J., Wilbanks, B.A., & **Aroke, E.N.** A systematic review of race, sex, and socioeconomic status differences in postoperative pain and pain management. *Journal of PeriAnesthesia Nursing [ACCEPTED]*

3. \*Benefield, D., \*Bell, E., \*Vollenweider, A., \*Wilson, K., Warren, L.L. & **Aroke, E.N.** Improving Communication Between ICU Nurses and Anesthesia Providers Using a Standardized Handoff Protocol. *Journal of PeriAnesthesia Nursing* [ACCEPTED]
4. Lai, G., **Aroke, E.N.** & Zhang, S.J., (2022). Rediscovery of Methadone to Improve Outcomes in Pain Management. *Journal of PeriAnesthesia Nursing*. <https://doi.org/10.1016/j.jopan.2021.08.011>
5. **Aroke, E.N.**, Pereira, S., Leonard, C., Castillo, J.D., Brydges, G., Remy, A.M., Gonthier, I., Akpadiaha, I., Ferris, M., & Choudhry, S.A. (2022). Translation of Credentialing Examination for Providers with English as a Second Language: An Exploratory Study. *AANA Journal*. 90(2): 91-99
6. Goodin, B.R., \*Overstreet, D.S. \*Penn, T., Bakshi, R., Quinn, T.L., Sims, A., Ptacek, T., \*Jackson, P., Long, D.L. & **Aroke, E.N.** (2022). Epigenome-wide DNA methylation profiling of Condition Pain Modulation in Individuals with Nonspecific Chronic Low Back Pain. *Clinical Epigenetics* 14:45 <https://doi.org/10.1186/s13148-022-01265-z>
7. **Aroke, E.N.** \*Jackson, P., \*Overstreet, D., \*Penn, T., Cruz-Almeida, Y., Quinn, T., & Goodin, B.R. (2022). Differential DNA Methylation in Black and White Individuals with Chronic Low Back Pain Enrich Different Genomic Pathways. *Neurobiology of Pain*. 11:100086. <https://doi.org/10.1016/j.ynpai.2022.100086>
8. Morais, C.A., **Aroke, E.N.**, Letzen, J.E., Campbell, CM, Janevic, MR, Mathur, VA, Merriwether, EN, Goodin, BR, Booker, SQ, Campbell, LC. (2022). Confronting Racism in Pain Research: A Call to Action. *Journal of Pain*. <https://doi.org/10.1016/j.jpain.2022.01.009>
9. Letzen, J.E., Mathur, VA, Janevic, MR, Burton, M.D., Morias, CA, Booker, SQ., Campbell, CM, **Aroke, E.N.**, Goodin, BR, Campbell, LC, & Merriwether, EN. (2022) Confronting Racism in all Forms of Pain Research: Reframing Study Designs. *Journal of Pain*. <https://doi.org/10.1016/j.jpain.2022.01.010>
10. Merriwether, EN, Booker, SQ, Morias, CA, Goodin, BR, Letzen, JE, Campbell, LC, **Aroke, E.N.**, Campbell, CM, Mathur, VA, & Janevic, MR. (2022). Confronting Racism in All Forms of Pain Research: A Shared Commitment for Engagement, Diversity, and Dissemination. *Journal of Pain*. <https://doi.org/10.1016/j.jpain.2022.01.008>
11. \*Thompson, M., \*Hunnicuttt, R., \*Broadhead, M., Vining, B. & **Aroke, E.N.** (2021). Implementation of a Certified Registered Nurse Anesthetist Second Victim Peer Support Program. *Journal of PeriAnesthesia Nursing*. [doi.org/10.1016/j.jopan.2021.05.005](https://doi.org/10.1016/j.jopan.2021.05.005)
12. Zhang, S.J., Lai, G., Griffis, C.A., Schiltz, M., & **Aroke, E.N.** (2021). Alpha-2 Adrenergic Agonist, An Attractive but Underutilized ERAS Component in Improving Fast Track Recovery and Surgical Outcomes. *AANA J*. 89(6) 529-537.
13. **Aroke, E.N.**, Wilbanks, B.A., Hicks, T., Thurston, K.L., & McMullan, S.P. (2021) Mentoring Doctor of Nursing Practice Team Projects: Considerations for Nurse Anesthesia Faculty. *AANA J*. 89(5):435-442. PMID: 34586998.
14. \*Jackson, P., Goodin, B.R., Long, D. L., Jablonski, R., \*Penn, T., \*Sims, A., Quinn, T., \*Overstreet, D., Kempf, M.C., Rumble, D. & **Aroke, E.N.** (2021) The Area Deprivation Index Corresponds Effectively With Other Measures of Objective Socioeconomic Status in Adults With Chronic Low Back Pain. *J Nurs Meas*. doi: 10.1891/JNM-D-20-00126



15. \*Overstreet, D.S., \*Michl, A.N., \*Penn, T.N., Rumble, D.D., **Aroke, E.N.**, \*Sims, A.M., King, A.L., Hasan, F.N., Quinn, T.L., Leann Long, D., Sorge, R.E., & Goodin, B.R. (2021) Temporal summation of mechanical pain, but not conditioned pain modulation, prospectively predicts movement-evoked pain severity in adults with chronic low back pain, *BMC Musculoskelet Disord* 22, 429.  
<https://doi.org/10.1186/s12891-021-04306-5>
16. Rumble, R.D., O'Neal, K., \*Overstreet, D.S., \*Penn, T.M., \*Jackson, P., **Aroke, E.N.**, ... & Goodin, B.R. (2021). Sleep and Neighborhood Socioeconomic Status: A micro longitudinal study of chronic low back pain and pain-free individuals. *J Behav Med*, <https://doi.org/10.1007/s10865-021-00234-w>
17. Wilbanks, B. A., **Aroke, E. A.**; Dudding, K. (2021) Using eye tracking for cognitive workload in clinical simulations: Literature review and synthesis. *CIN: Computers, Informatics, Nursing*: doi: 10.1097/CIN.0000000000000704
18. Powell-Young, Y.M., Alzaghari, O., Reyes-Miranda, C., Coleman, B., Strickland, O.L., Gorden, Y., **Aroke, E.N.**, Clark, M.K., Lewis, H., & Giger, J.N. (2020). Chloroquine and Hydroxychloroquine for the Treatment of COVID-19: Review and Appraisal of Current Evidence. *J Nat. Black Nurses Association*, 31(2), 1-15.
19. **Aroke, E.N.**, \*Overstreet, D., \*Penn, T., Crossman, D. \*Jackson, P., Tollefsbol, T., Quinn, T., Yi, N., & Goodin, B.R. (2020). Identification of DNA Methylation Associated Enrichment Pathways in Adults with Non-Specific Chronic Low Back Pain. *Molecular pain*, doi.org/10.1177/1744806920972889.
20. **Aroke, E. N.**, Powell-Roach, K. L., Jaime-Lara, R. B., Tesfaye, M., Roy, A., \*Jackson, P., & Joseph, P. V. (2020). Taste the Pain: The Role of TRP Channels in Pain and Taste Perception. *International Journal of Molecular Sciences*, 21(16), 5929. doi: 10.3390/ijms21165929
21. **Aroke, E. N.**, & Powell-Roach, K. L. The Metabolomics of Chronic Pain Conditions: A Systematic Review. *Biol Res Nurs*. doi: 10.1177/1099800420941105
22. **Aroke, E. N.**, \*Jackson, P., \*Overstreet, D. S., \*Penn, T. M., Rumble, D. D., \*Kehrer, C. V., et al. (2020). Race, Social Status, and Depressive Symptoms: A Moderated Mediation Analysis of Chronic Low Back Pain Interference and Severity. *Clin J Pain*. doi:10.1097/ajp.0000000000000849
23. Wilbanks, B. A., & **Aroke, E. N.** (2020). Using Clinical Simulations to Train Healthcare Professionals to Use Electronic Health Records: A Literature Review. *Computers, Informatics, Nursing: CIN*. doi: 10.1097/cin.0000000000000631
24. **Aroke, E. N.**, & Kittelsrud, J. M. (2020). Pharmacogenetic of postoperative pain management: A Review. *AANA Journal*, 88(3), 229-236.
25. **Aroke, E. N.**, McMullan, S., Woodfin, K., Richey, R., Doss, J., & Wilbanks, B. (2020). A Practical Approach to Acute Postoperative Pain Management in Chronic Pain Patients. *Journal of PeriAnesthesia Nursing*. doi: 10.1016/j.jopan.2020.03.002
26. \*Penn, T.M. \*Overstreet, D.S., **Aroke, E.N.**, Rumble, et al. (2020). Perceived injustice helps explain the association between chronic pain stigma and movement-evoked pain in adults with non-specific chronic low back pain. *Pain Medicine*. doi: 10.1093/pm/pnaa095
27. **Aroke, E. N.**, & Nkemazeh, R. Z. (2020). Perianesthesia Implications and Considerations for Drug-Induced QT Interval Prolongation. *Journal of Perianesthesia Nursing*. doi:10.1016/j.jopan.2019.09.003

28. **Aroke, E. N.**, Robinson, A. N., & Wilbanks, B. A. (2020). Perioperative Considerations for Patients with Major Depressive Disorder Undergoing Surgery. *Journal of Perianesthesia Nursing*. doi:10.1016/j.jopan.2019.08.011
29. Ruth, L., Joseph, P. V. & **Aroke, E. N.** (2019). Knowledge of Precision Medicine and Health Care: An Essential Nursing Competency. *American Journal of Nursing*, 119(10), 34-42. doi:10.1097/01.NAJ.0000586168.93088.3c
30. **Aroke, E. N.**, & Hicks, T. L. (2019). Pharmacogenetics of Postoperative Nausea and Vomiting. *Journal of PeriAnesthesia Nursing*. doi:10.1016/j.jopan.2019.03.007
31. **Aroke, E. N.**, Joseph, P. V., Roy, A., Overstreet, D. S., Tollefsbol, T. O., Vance, D. E., & Goodin, B. R. (2019). Could epigenetics help explain racial disparities in chronic pain? *Journal of Pain Research*, 12, 701-710. doi:10.2147/JPR.S191848
32. **Aroke, E. N.**, & Kittelsrud, J. M. (2019). A primer to pharmacogenetics of postoperative pain management. *AANA Journal*, 87(2), 131-137.
33. \*Overstreet, D. S., \*Penn, T. M., Cable, S. T., **Aroke, E. N.**, & Goodin, B. R. (2018). Higher habitual dietary caffeine consumption is related to lower experimental pain sensitivity in a community-based sample. *Psychopharmacology*, 235(11), 3167-3176. doi:10.1007/s00213-018-5016-3
34. **Aroke, E. N.**, Crawford, S. L., & Dungan, J. R. (2017). Pharmacogenetics of Ketamine-Induced Emergence Phenomena: A Pilot Study. *Nursing Research*, 66(2), 105-114. doi:10.1097/NNR.0000000000000197
35. **Aroke, E. N.**, & Dungan, J. R. (2016). Pharmacogenetics of Anesthesia: An Integrative Review. *Nursing Research*, 65(4), 318-330. doi:10.1097/NNR.0000000000000164
36. Sullivan-Bolyai, S., Bova, C., Johnson, K., Cullen, K., Jaffarian, C., Quinn, D., Aroke, E. N. . . . Gupta, O. (2014). Engaging Teens and Parents in Collaborative Practice: Perspectives on Diabetes Self-Management. *The Diabetes Educator*, 40(2), 178-190. doi:10.1177/0145721713520568
37. **Aroke, E. N.** (2014). Full nursing potential: A concept clarification. *Nursing Forum*, 49(4), 278-287. doi:10.1111/nuf.12096
38. **Aroke, E.N.** (2011). Anesthesia for Adult Aortic Coarctation Repair. *International Student Journal of Nurse Anesthesia*. 10(1).

### Book Section

39. Morgan, B., **Aroke, E.N.** & Dungan, J.R. "The Role of Pharmacogenomics in Anesthesia Pharmacology." In Annual Review of Nursing Research Anesthesia & Pain Management, edited by Charles Vacchiano, Kenneth Wolford, and Christine Kasper. Springer Publishing Company, 2016

### Non-Referenced Articles

40. Gonthier, I., Choudhry, SA, **Aroke, E.N.** (2021) Benchmark Survey in Translating Credentialing Examinations: An Opportunity to Learn, Improve and Explore Language Barriers. *Credentialing Insights- The Online Journal of ICE*
41. Nkam M. & **Aroke, E.N.** (2020). The Emerging Role of CRNAs Given the Novel Coronavirus 2019. NBNA Newsletter, Special Report: COVID 2020, 15-16

42. **Aroke, E.N.** (2020). Pharmacogenetic Guidelines for Prescribing and Using Nonsteroidal Anti-inflammatory Drugs. *Nurse Anesthesiology Website*. <https://nurseanesthesiology.aana.com/pharmacogenetic-guidelines-for-prescribing-and-using-nonsteroidal-anti-inflammatory-drugs>
43. **Aroke, E.N.** & Durbin, T. (2020). Disparities in Anesthesia Outcomes: What Can CRNAs Do? *AANA NewsBulletin* May 2020, 16-17.
44. Eagerton, G.S., Bordelon, C. & **Aroke, E.N.** (2019). Men in Nursing: Building Diversity in Healthcare. *National Black Nurses Association News*, 15-17.
45. **Aroke, E.N.** (2019). Understanding the Big Picture of Precision Health in Anesthesia Care. *Nurse Anesthesiology Website*. <https://nurseanesthesiology.aana.com/understanding-the-big-picture-of-precision-health-in-anesthesia-care>
46. **Aroke, E.N.** (2019). Response to Anesthetists' Ethical Responsibility Behind Pharmacogenetics. *AANA Journal*. <https://www.ncbi.nlm.nih.gov/pubmed/31612852>

### **Dissertation**

**Aroke, Edwin** (2016). A pilot study of the pharmacogenetics of ketamine-induced emergence phenomena: A dissertation. University of Massachusetts Medical School Graduate School of Nursing Dissertations, Paper 43.

### **PODIUM PRESENTATIONS (&invited presentation)**

#### **International**

**Aroke, E.N.** Jackson, P. & Goodin, B.R (2022, May). Differential Methylation in Inflammatory Pathways Links Condition Pain Modulation and Non-Specific Chronic Low Back Pain, *World Congress of Nurse Anesthetists (WCNA)*, Sibenik, Croatia

**Aroke, E.N.** (2022, May). Enrichment Pathways of DNA Methylation in Blacks and Whites with Chronic Low Back Pain, *World Congress of Nurse Anesthetists (WCNA)*, Sibenik, Croatia

**Aroke, E.N.** (2021, November). Epigenetics and Racial Disparities in Chronic Low Back Pain, *International Society of Nurses in Genetics (ISONG) Annual Congress*, Virtual

&**Aroke, E.N.** Njodzeka, V.N. (2021, July) Pain Management During Labor and Delivery. Cameroon Town Hall for Healthcare Professionals. *Virtual Conference*

**Aroke, E.N.** (2018, June). Pharmacogenetics of Opioid Use in Postoperative Pain Management. In World Congress of Nurse Anesthesia (WCNA). Budapest, Hungary: *The International Federation of Nurse Anesthetists (IFNA)*.

**Aroke, E.N.,** Dungan, J.R. (2016, August). Lack of association of CYP2B6\*6 and GRIN2B alleles with ketamine induced emergence phenomena: A pilot study, *International Society of Nurses in Genetics (ISONG) Annual Congress*, Dublin, Ireland

#### **National**

**Aroke, E.N.,** Jackson, P., Dudding, K. & Goodin, B.R. (September 2022). Differentially Methylated Genes are Linked to Internalized Stigma Among Individuals with Chronic Low Back Pain. *Council for Advancement of Nursing Science Congress*. Washington, DC

**Aroke, E.N.** (2022, August). From Pharmacogenomics to Pharmacoepigenomics: Considerations for Pain Management. *AANA Annual Congress*. Chicago, IL

**Aroke, E.N.**, Glymph, D.C., & Griffis, C. (August 2022). Writers Workshop Part 1: Preparing You Submission and Navigating Editorial Manager for AANA Journal. *AANA Annual Congress. Chicago, IL*

& **Aroke, E.N.** (2022, August). Genomic Pathways Enriched by Differentially Methylated Genes are Linked to Racial Disparities in Chronic Low Back Pain. *AANA Annual Congress. Chicago, IL*

**Aroke, E.N.** (2022, June). Genomic Pathways Enriched by Differentially Methylated Genes are Linked to Racial Disparities in Chronic Low Back Pain. *NIH Pain Consortium. Virtual.*

**Aroke, E.N.** (2022, February). Epigenome-wide association study reveals Methylation Pathways Associated with Racial Disparities in Chronic Low Back Pain. *AANA Assembly of Didactic and Clinical Educators (ADCE). Colorado Springs, CO.*

**Aroke, E.N.** Rodriguez-Gonzalez, M., Amos, V., Castillo III, J., Bastardi, L., & Johnson, U. (2022, February). CRNA PhD Trajectory: Changing the Face & Culture of Nurse Anesthesia. Diversity CRNA Faculty Development Institute Forum. *Virtual Conference*

**Aroke, E.N.**, Gould, W., Rowles, J. (2022, February). A Fellow Journey, Building Body of Work. Diversity CRNA Faculty Development Institute Forum. *Virtual Conference*

**Aroke, E.N.** (2021, August). Epigenetics- A Source of Interindividual Differences in Chronic Low Back Pain and Aging. American Association of Nurse Anesthetists (AANA), Annual Virtual Congress, Virtual Conference

& **Aroke, E.N.**, Kimble, K., Anwar, Z. & Riedel, L., (2021, March). Health Care Disparities: Replacing Myths with Facts When Treating Ethnic and Racial Minority Patients. *AANA Clinical Series Webinar.*

**Aroke, E.N.**, Cruz-Almeida, Y., & Stone, L. (2020, December). New Avenues in Chronic Pain Research – an Epigenetic Approach. *US Association for the Study of Pain (USASP) Meeting. Virtual Conference*

& **Aroke, E.N.** (2020, September). Health Disparities and COVID-19: An Anesthesia Provider's Perspective. *Society of Critical Care Medicine (SCCM), Virtual Conference*

**Aroke, E.N.** (2020, August). Race, Sex, and Social Class Disparities in Pain. American Association of Nurse Anesthetists (AANA), *Annual Virtual Congress, Virtual Conference*

& **Aroke, E.N.**, Valdes, J, Flanagan, D., & Durbin, T. (2020, July). The Role of CRNAs in Reducing Health Disparities. *AANA Clinical Series Webinar.*

**Aroke, E.N.** (2019, August). Beyond Genetics: The Emerging Role of Epigenetics in Chronic Pain. *AANA Annual Congress, Chicago, IL*

& **Aroke, E.N.** (2019, July). The PhD for CRNAs: Is it for me? *National Black Nurses Association Annual Institute & Diversity in Nurse Anesthesia Mentorship Program Doctorate Symposium, New Orleans, LO*

**Aroke, E.N.** (2018, September). Opioid Pharmacogenetics and Considerations for Postoperative Pain Management. *AANA Annual Congress, Boston, MA*

& **Aroke, E.N.** (2018, July). Minority Faculty Development: The Career Trajectory of PhD Faculty. *National Black Nurse Association (NBNA) Annual Conference & DNAP Doctorate Symposium. St. Louis, Missouri.*

**Aroke, E.N.**, & Egbe, S. (2018). Thinking about a Doctorate? Opportunities and Challenges for CRNAs. *Association of Cameroonian Nurse Anesthetists in America (ACNAA) Inaugural Conference. Houston, TX.*

& **Aroke, E.N.** (2017). The PhD: How do I get one, and what does it prepare me for? In *Inaugural Diversity Advanced Practice Nurses Doctorate Symposium. Washington, DC.*

**Aroke, E.N.** (2016, September). Pharmacogenetics of Anesthesia. *AANA Annual Congress, Washington, DC*

## Regional

- & **Aroke, E.N.** (2020, January). Considerations for Acute Pain Management in Patients with Chronic Pain. *Georgia Association of Nurse Anesthetists (GANA) Spring Regional Meeting*. Athens, GA
- & **Aroke, E.N.** (2018, October). Opioid Pharmacogenetics and Considerations for Postoperative Pain Management. *Maryland Association of Nurse Anesthetists (MANA) Fall Meeting*, Columbia, MD
- Aroke, E.N.** (2018, October). Pharmacogenomics in Anesthesia Practice. *Alabama Association of Nurse Anesthetists (ALANA) Fall Meeting*. Birmingham, AL.
- Aroke, E.N.** (2015, April). Pharmacogenetics in Anesthesia Practice, *New England Assembly of Nurse Anesthetists (NEANA)*, Burlington, MA
- Aroke, E.N.** (2015, April). Pharmacogenetics of Ketamine-Induced Emergence Phenomena: a pilot study, *Eastern Nursing Research Society Conference*, Washington, DC

## Local

- & **Aroke, E.N.** (2021, October). New Avenues in Pain Disparities – An Epigenomic Approach. *Physical Medicine and Rehabilitation Grand Rounds*. Virtual. Birmingham, AL
- \*Jackson, P., Larkin, D., \*Kinnie, K. & **Aroke, E.N.** (2021). Heat Islands and African American Health: Relevance to Nursing Practice and Research. *Heat Islands and African American Health: Relevance to Nursing Practice and Research. 1<sup>st</sup> Annual DNP and PhD Scholarship Collaborative*. Hybrid Conference.
- Aroke, E.N.** (2020, January). Considerations for Acute Pain Management in Patients with Chronic Pain. In UAB Nurse Anesthesia Updates. Birmingham, AL.
- Aroke, E.N.** (2019). Psychopharmacology Review and Anesthetic Implications. In UAB Nurse Anesthesia Updates. Birmingham, AL.
- Aroke, E.N.** (2018). Pharmacogenomics of Postoperative Pain Management. In 2018 Nurse Anesthesia Update. Birmingham, AL.
- Aroke, E.N.** (2010, November). Perioperative Hypertension: a review of current and emerging therapeutic agents, Duke University, Durham, NC
- Aroke, E.N.** (2010, July). Tracheal Extubation Considerations for patients with difficult airways, Duke University, Durham, NC
- Aroke, E.N.** (2010, February). Application of Near Infrared spectroscopy in Cerebral Perfusion Monitoring. Duke University, Durham, NC

## Peer-Reviewed Abstracts/Posters

### International

- Jordan, L., Hoyem, R.L., Wilbanks, B. & **Aroke, E.N.** (2022, May). Patient Concerns & Fears Regarding Undergoing General Anesthesia in the United States. *World Congress of Nurse Anesthetists (WCNA)*. Sibenik, Croatia
- Smith, K.A., Evans, H., Johnson, W., **Aroke, E.N.**, & Smith, A. (2022, May). Racial and Ethnic Disparities in Acute Postoperative Pain Management. *World Congress of Nurse Anesthetists (WCNA)*. Sibenik, Croatia
- Aroke, E.N.**, Horvath, C., Morgan, B., Rojo, A., & Switzman, J. (March 2022). Restoring Civility – A position statement from AANA, AORN, & ASPAN workplace civility taskforce. *Sigma- Creating Health Work Environments*. Washington, DC

**Aroke, E.N.**, \*Jackson, P., \*Overstreet, D.S., \*Penn, T., Quinn, T., Sims, A., Long, D.L., Goodin, B.R (2020, July). Depression Mediate the Relationship Between Social Status and Chronic Pain for Whites, but Not Blacks. *Sigma's 31st International Nursing Research Congress, Virtual Conference*

Vance, D.E., **Aroke, E.N.**, Cheatwood, J., Nicholson, C., & Fazeli, P.L. (2018, March). What Is the Utility of the HIV-Associated Neurocognitive Disorder (HAND) Diagnosis? *12th World Congress on Controversies in Neurology (CONy)*, Warsaw, Poland

**Aroke, E.N.**, Dungan, J.R. (2014, November). Exploring the Pharmacogenetics of Ketamine-Induced Emergence Phenomena, *International Society of Nurses in Genetics (ISONG) Annual World Congress*, Scottsdale, AZ

## National

**Aroke, E.N.** (2022, August). Genomic Pathways Enriched by Differentially Methylated Genes are Linked to Racial Disparities in Chronic Low Back Pain. *AANA Annual Congress*. Chicago, IL

**Aroke, E.N.** & Goodin, B.R. (2022, June). Genomic Pathways Enriched by Differentially Methylated Genes are Linked to Racial Disparities in Chronic Low Back Pain. *NIH Pain Consortium*. Virtual

\*Penn, T., \*Overstreet, D., \*Sims, A., **Aroke, E.**, Rumble, D., Long, D.L., Quinn, T. and Goodin, B., (May 2021). Perceived injustice mediates the relationship between socioeconomic status and physical function among individuals with chronic low back pain. *UASAP Conference. Journal of Pain*, 22(5), p.596.

\*Overstreet D, \*Penn T, \*Hasan F, \*Sims A, **Aroke E**, Rumble D, Long L, Quinn T, Goodin B. (May 2021) Depressive Symptoms Mediate the Relationship Between 25-Hydroxy Vitamin D and Self-Reported Pain Intensity in a Sample of Individuals Living with Non-Specific Chronic Low Back Pain. *USASP Conference. Journal of Pain*. 1;22(5):610.

\*O'Neal, K., Rumble, D., \*Overstreet, D., \*Penn, T., \*Jackson, P., **Aroke, E.**, \*Sims, A., King, A., Hasan, F., Quinn, T. and Long, D.L., (May 2021). Sleep efficiency and physical performance differences between pain-free individuals and individuals with chronic lower back pain. *USASP Conference. Journal of Pain*, 22(5), pp.610-611.

\*Keshishian, J.S., \*Bell, S., \*Moulds, J., \*Vittal, S. Tofani, P. & **Aroke, E.N.** (Apr. 2021). Stress Reduction in Student Registered Nurse Anesthetists (SRNAs) via a Semi-Structured Peer Mentor Program. *AANA Mid-Year Assembly*. Virtual Conference

\*Thompson, M., \*Hunnicut, R., \*Broadhead, M., Vining, B. & **Aroke, E.N.** (Apr. 2021). Implementation of a Certified Registered Nurse Anesthetist Second Victim Peer Support Program. *AANA Mid-Year Assembly*. Virtual Conference

\*Keshishian, J.S., \*Bell, S., \*Moulds, J., \*Vittal, S. Tofani, P. & **Aroke, E.N.** (Feb. 2021). Stress Reduction in Student Registered Nurse Anesthetists (SRNAs) via a Semi-Structured Per Mentor Program. *Assembly of Didactic and Clinical Educators (ADCE)*. Virtual Conference

\*Overstreet, D.S., \*Penn, T.N., Hasan, F.N., \*Sims, A.M., **Aroke, E.N.**, Rumble, D.D., Leann Long, D., Quinn, T.L., & Goodin, B.R. (2021 December). Depressive Symptoms Mediate the Relationship Between 25-Hydroxy Vitamin D and Self-Reported Pain Intensity in a Sample of Individuals Living with Non-Specific Chronic Low Back Pain. , U.S. Association for the Study of Pain Meeting, Virtual Conference

\*O'Neal, K., Rumble, D., \*Overstreet, D., \*Penn, T., \*Jackson, P., **Aroke, E.N.**, ... & Goodin, B. (2020 December). Sleep efficiency and physical performance differences between pain-free individuals and individuals with chronic lower back pain. U.S. Association for the Study of Pain Meeting, Virtual Conference

\*Penn, T.M., \*Overstreet, D.S., Sims, A.M., **Aroke, E.N.**, Rumble, D.D, Long, D.L., Quin, T.L., Goodin, B.R. (2020, December). Perceived Injustice Mediates the Relationship between Socioeconomic Status and Physical Function among Individuals with Chronic Low Back Pain, U.S. Association for the Study of Pain Meeting, Virtual Conference

\*Penn, T.M., \*Overstreet, D.S., **Aroke, E.N.**, Sims, A.M., Rumble, D.D, Long, D.L., Morris, C., Goodin, B.R. (2020, May). Anger Mediates the Link Between Trait Forgiveness and Pain Outcomes Among Individuals with Chronic Low Back Pain(cLBP), *Society of Behavioral Medicine Annual Meeting*, Virtual Conference

**Aroke, E.N.**, Sanders, K., & Wofford, K. (Oct. 2020). Assessment During Recertification: A Scoping Review. *American Academy of Nursing Conference*. 2020 Virtual Conference.

\*Teschel, D.E., \*Philips, L.P., \*Mize, J.L., \*Bryan, C.C., Dobyns, J.B., **Aroke, E.N.** (Feb. 2020). Evaluating a Perioperative Hyperglycemia Protocol in Non-Cardiac Patients. *Assembly of Didactic and Clinical Educators (ADCE)*. Braselton, GA

\*Michl A, \*Overstreet D, \*Penn T, Quinn T, Hasan F, King A, Long DL, **Aroke E.N.**, Goodin B.(Nov 2019) Endogenous Pain Facilitation Prospectively Predicts Movement Evoked Pain in a Sample of Individuals with Chronic Low Back Pain. *Annual Biomedical Research Conference for Minority Students*, Anaheim, CA

**Aroke, E.N.**, \*Overstreet DS, \*Penn TM, Quinn T, Long DL, \*Hasan F, \*Kehrer C, \*Michl A, Huang T, Goodin B. (Aug 2019). Sex Differences in Chronic Low Back Pain American Association of Nurse Anesthetist (AANA) Annual Congress, Chicago, IL

**Aroke, E.N.** (2014, September). Pharmacogenetics of Anesthetics: An Integrative Review, *AANA Annual Congress*, Orlando, FL

## Regional

\*Jackson, P., Kinnie, K., Goodin, B.R. & Aroke, E.N. (February 2022). Neighborhood Deprivation Correlates With Pain Severity in White but not Black Adults With Chronic Low Back Pain. *36th Southern Nursing Research (SNRS) conference*. New Orleans, LA.

\*Jackson, P, Goodin, B.R., Kempf, M.C. **Aroke, E.N.** (March 2020). The Association of Pain Severity/Interference, Race and Subjective Social Status in Adults with Chronic Low Back Pain. *34th Southern Nursing Research Society conference*, New Orleans, LA

## Local

Dye. D. & **Aroke, E.N.** The Role of CRNA Background on Confidence in Postoperative Pain Management. (2022, April). *UAB Honors Expose*. Birmingham, AL

\*Fuchsberger, S., \*Gallant, H., \*Ward, R., McPeters, S. & **Aroke, E.N.** (Feb 2021). Reversing Rocuronium at Huntsville Hospital: Postoperative Patient Outcomes and Provider Perceptions. *UAB DNP Intensive*. Virtual Conference

\*Thompson, M., \*Hunnicut, R., \*Broadhead, M., Vining, B. & **Aroke, E.N.** (Feb. 2021). Implementation of a Certified Registered Nurse Anesthetist Second Victim Peer Support Program. *UAB DNP Intensive*. Virtual Conference

\*Keshishian, J.S., \*Bell, S., \*Moulds, J., \*Vittal, S. Tofani, P. & **Aroke, E.N.** (Feb. 2021). Stress Reduction in Student Registered Nurse Anesthetists (SRNAs) via a Semi-Structured Peer Mentor Program. *UAB DNP Intensive*. Virtual Conference

\*Edwards, B., \*Grayson, C., \*Harris, T., Walker, M., Forrester, D. & Aroke, E.N. (Feb. 2020). Improving Perioperative Smoking Cessation in Orthopedic Surgery. *UAB DNP Intensive*, Birmingham, AL

\*Teschel, D.E., \*Philips, L.P., \*Mize, J.L., \*Bryan, C.C., Dobyns, J.B., **Aroke, E.N.** (Feb. 2020). Evaluating a Perioperative Hyperglycemia Protocol in Non-Cardiac Patients. *UAB DNP Intensive*, Birmingham, AL

\*Jackson, P., **Aroke, E.N.**, Kempf, M.C. (June 2019) Chronic Pain and Accelerated Epigenetic Age: A Social Epigenetics Theoretical Framework. *UAB PhD Intensive*, Birmingham, AL

## GRANT REVIEWS & STUDY SECTIONS

### National

<u>Institution</u>	<u>Study Panel</u>	<u>Role</u>	<u>Year</u>
Department of Defense Peer Reviewed Medical Research Program (PRMRP)	CT-ART	Scientist Reviewer	10/2022
Department of Defense Peer Reviewed Medical Research Program (PRMRP)	DIS-PM	Scientist Reviewer	07/2022
Department of Defense Peer Reviewed Medical Research Program (PRMRP)	PRE-PM	Scientist Reviewer	06/2021
Department of Defense Congressionally Directed Medical Research Programs (CDMRP)	IIR-2	Scientist Reviewer	01/2021

### Local

UAB Center for Clinical and Translational Science (CCTS)	2021
UAB Dean's Scholar Award (DSA)	2021
UAB Dean's Scholar Award (DSA)	2020
UAB Dean's Scholar Award (DSA)	2019

## EDITORIAL BOARDS AND JOURNAL REVIEWS

<u>Journal</u>	<u>Role</u>	<u>Year(s)</u>
Journal of Pain	Editorial Board	2021 - Present
Journal of National Black Nurses Association	Editorial Board	2020 - Present
AANA Journal	Editorial Panel	2019 - Present
Journal of PeriAnesthesia Nursing	Editorial Advisory Board	2019 - Present
Pain Reports	Reviewer	2021 - Present
Journal of Professional Nursing	Reviewer	2020 - Present
Pharmacogenomic Journal	Reviewer	2020 - Present
Epigenomics	Reviewer	2020 - Present
Biological Research for Nursing	Reviewer	2020 - Present
Clinical Journal of Medicine	Reviewer	2019 - Present
Molecular Pain	Reviewer	2019 - Present
Journal of PeriAnesthesia Nursing	Reviewer	2019 - Present
Geriatric Nursing	Reviewer	2019 - Present
Nursing Research	Reviewer	2016 - Present
Nursing Forum	Reviewer	2015 - 2017

## MEDIA/PRESS RELEASES

<u>Date</u>	<u>Type of Media</u>	<u>Topic of Interview</u>
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04/2022	Website	Addressing racism in pain research
02/2022	AANA Newsroom	Nurse Anesthetists Highlight the Impact of Racism and Nursing
09/2021	Website	Four AANA Members for the American Academy of Nursing 2021 Class of New Fellows
06/2021	Website	AANA recognizes Aroke as Researcher of the Year
06/2021	Website	Aroke Elected President of Association of Cameroon Nurse Anesthetists in America (ACNAA)
05/2021	Multiple Outlets	How one nurse anesthetist is working to fight racial disparities in healthcare
07/2021	Website	Aroke received Didactic Instructor of the Year from AANA
07/2020	Website	Nursing professor launches two studies of racial disparities in pain
07/2020	TopMED Talk	Sex, race, and social class disparities in pain
06/2020	Psychiatry Advisor	Perioperative Considerations for Patients Taking Antidepressants
11/2019	Website	Aroke named NIH research scholar

## **PROFESSIONAL ASSOCIATION/ORGANIZATION MEMBERSHIPS**

<u>Year(s)</u>	<u>Name of Organization</u>
2020 – Present	US Association for the Study of Pain (USASP)
2020 – Present	American Nursing Association (ANA)
2019 – Present	National Black Nurses Association (NBNA)
2018 - 2019	American Pain Society (APS)
2009 – Present	American Association of Nurse Anesthetist (AANA)
2017 – Present	Alabama Association of Nurse Anesthetists
2017 – Present	Association of Cameroon Nurse Anesthetists in America (ACNAA)
2014 – Present	International Society of Nurses in Genetics (ISONG)
2011 – Present	Diversity in Nurse Anesthesia Mentorship Program (DNAMP)
2012 – 2016	Graduate Nursing Student Academy (GNSA)
2011 – 2017	Massachusetts Association of Nurse Anesthetist (MANA)
2009 – 2011	Duke University SRNA Association
2009 – 2010	North Carolina Association of Nurse Anesthetist (NCANA)
2009 – 2010	Duke University Graduate and Professional Student Council ~ SRNA Representative
2007 – 2010	American Association of Critical Care Nurses (AACN)
2006 – Present	Sigma Theta Tau International Honor Society of Nursing (Sigma)
2006 – Present	Phi Kappa Phi Honor Society

## **PROFESSIONAL COMMITTEE SERVICE AND COMMUNITY ACTIVITIES**

### **National**

2021 – Present	Association of Cameroonian Nurse Anesthetists in America, President
2020 - 2022	NBCRNA, Chair English as Second Language (ESL) Subcommittee
2019 - Present	AANA Journal Editorial Committee
2019 - 2021	AANA Diversity and Inclusion Committee
2018 - 2020	NBCRNA, Subcommittee on Methods to Assess Knowledge and Competence
2017 - Present	NBCRNA, Evaluation and Research Advisory Committee
2017 - 2018	NBCRNA, Item Writers Committee
2017 – 2021	Association of Cameroonian Nurse Anesthetists in America, Vice President
2011 - Present	Diversity in Nurse Anesthesia Mentorship Program, Volunteer

### **University**

2019 – Present	Anesthesia Care Team Optimization Committee (ACTOC), UAB Medicine
2019 – 2021	Faculty Practice Committee, School of Nursing, UAB
2018 - Present	UAB African American Faculty Association (AAFA) - School of Nursing Liaison
2012 - 2016	Diversity Student Group at University of Massachusetts, Worcester, Volunteer

### **School**

2022 – Present	Faculty Appointments, Promotions, and Tenure (APT) Committee
2022 - Present	Faculty Search Council
2021 – Present	Office of Research and Scholarship, Student Trainee Service Unit
2021 – Present	DEI Committee
2021	Return to Campus Taskforce
2021	Dean’s Awards Selection Committee – UAB School of Nursing
2019, 2020, 2021	Dean’s Scholar Awards Grant Reviewer
08/2021 – Present	Faculty Search Council, UAB School of Nursing
05/2021-08/2021	Return to Campus Task Force, UAB School of Nursing
Summer 2020	DNP Quality Improvement Project Review Committee, UAB, School of Nursing

2019	Council on Accreditation of Nurse Anesthesia Educational Programs (COA) Preparation Committee, Nursing
2019 - 2021	Faculty Practice Committee, UAB School of Nursing
2018	Dean's Awards for Excellence in Teaching Committee – UAB School of Nursing
2015 - Present	University of Massachusetts, Worcester, Dean's Search Committee
2012 - 2016	PhD Students Representative to the Diversity Committee, University of Massachusetts, Worcester
2013 - 2014	Nursing Career Expo, Volunteer

## **TEACHING RESPONSIBILITIES**

<u>Year(s)</u>	<u>Term</u>	<u>Course#</u>	<u>Course Name</u>	<u>Your Role</u>
2022	Spring	NRM 750	Foundations of Quantitative Research	Course Manager
2021	Fall	NRM 752	Responsible Conduct of Research	Guest Lecturer
2021	Summer	NA 741	Anesthesia Principle I	Guest Lecturer
2021	Spring	NRM 782	Applications of Research Design Principles II	Co-Lecturer
2020	Fall	NA 731	Biochemistry and Physics for Nurse Anesthesia	Course Manager
2020	Fall	NRM 752	Responsible Conduct of Research	Guest Lecturer
2020	Summer	NA 741	Anesthesia Principle I	Guest Lecturer
2019	Fall	NA 731	Biochemistry and Physics for Nurse Anesthesia	Course Manager
2019	Fall	NRM 752	Responsible Conduct of Research	Guest Lecturer
2019	Summer	NA 741	Anesthesia Principles I	Guest Lecturer
2018	Fall	NA 731	Biochemistry and Physics for Nurse Anesthesia	Course Manager
2018	Summer	NA 741	Anesthesia Principles I	Course Manager
2018	Summer	NUR 700	Clinical Data Management and Analysis	Co-Lecturer
2018	Spring	NA 698 QL	Graduate Projects	Course Manager
2018	Spring	NA 718L	Focus on Advanced Nursing Practice Specialization	Course Manager
2017	Fall	NA 702-03A	Anatomy and Physiology for Nurse Anesthetists	Co-Lecturer
2017	Fall	NA 731-03A	Biochemistry and Physics for Nurse Anesthetists	Course Manager

## **FACULTY PRACTICE ACTIVITIES**

<u>Dates</u>	<u>Site</u>	<u>Role</u>
2017 – Present	UAB Teaching Hospital	CRNA Preceptor ~ Precept Nurse Anesthesia students weekly

## THESIS/DISSERTATION COMMITTEES

### Current Students

- **Pamela Jackson**- Chair & Dissertation Committee - 2018 – Present: *Epigenetic Age Acceleration Impacts Racial and Neighborhood Disparities in Chronic Low Back Pain*. School of Nursing, University of Alabama at Birmingham, Birmingham, AL
- **Andrew Brane** – Dissertation Committee - 2020 – Present: *Exploration of sulforaphane administered during puberty as well as its epigenetic molecular mechanisms in vitro*. Department of Biology, University of Alabama at Birmingham, Birmingham, AL
- **Kiari Kinnie** – Chair Dissertation Committee – 2020 – Present: *TDB – Pain Disparities*. School of Nursing, University of Alabama at Birmingham, Birmingham, AL
- **Johanna Halbrooks** – Chair Dissertation Committee – 2021 – 2022: *TDB – Epigenetics of Pain and Sleep disorders*. School of Nursing, University of Alabama at Birmingham, Birmingham, AL

### Completed Dissertation

- **Terence Penn** – Dissertation Committee – 2019 – 2021: *Psychosocial Risk and Resiliency Factors for Pain Severity Among African Americans with Chronic Low Back Pain*. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL
- **Demario Overstreet** – Dissertation Committee – 2019 – 2021: *An Investigation of Endogenous Pain Modulation and Inflammatory Biomarkers in Non-Specific Chronic Low Back Pain*. Department of Neuroscience, University of Alabama at Birmingham, Birmingham, AL

## ACADEMIC MENTORSHIPS

Year(s)	Name of Mentee	Type of Mentee	Type of Mentorship	Summary of Outcome
2021 – Present	Datreana Dye	SON Honors Student	Research Mentor	Abstract and Poster for Honors Project.  <b><u>Honors Spring Expo Winner, 3<sup>rd</sup> Place in Health Sciences</u></b>
2021 – 2021	Zachary Johnson	SON Honors Student	Research Mentor	Honor Project mentorship

## DNP STUDENTS, CHAIR

2019- 2022	Eric Burke	DNP Student	DNP Project Chair	DNP Project Implementation
2019- 2022	Adam Robinson	DNP Student	DNP Project Chair	Abstract presentation DNP Intensive
2019- 2022	Nancy Pham	DNP Student	DNP Project Chair	<b><u>Title:</u></b> Enhancement of the Perioperative Glucose Control Protocol
2019- 2022	Caroline Camp	DNP Student	DNP Project Chair	Manuscript submitted to JoPAN

2019- 2022	Erica Bell	DNP Student	DNP Project Chair	DNP Project Implementation
2019- 2022	Daniel Benefield	DNP Student	DNP Project Chair	Abstract presentation DNP Intensive
2019- 2022	Aaron Vollenweider	DNP Student	DNP Project Chair	<b>Title:</b> Improving Communication between ICU Nurses and Anesthesia Providers Using a Standardized Handoff Protocol
2019- 2022	Karissa Wilson	DNP Student	DNP Project Chair	Manuscript Submitted to JoPAN
2020 – 2021	Carson Hagood	DNP Student	DNP Project Chair	Developing DNP Project Proposal
2020 – 2021	Catherine Labreche	DNP Student	DNP Project Chair	
2020 – 2021	Amber Clark	DNP Student	DNP Project Chair	
2020 – 2021	Marissa Commodore	DNP Student	DNP Project Chair	
2020 – 2021	Standria Moss	DNP Student	DNP Project Chair	
2020 – 2021	Leslee Ashburn	DNP Student	DNP Project Chair	Developing DNP Project Proposal
2020 – 2021	Kenneth Barker	DNP Student	DNP Project Chair	
2020 – 2021	Sarah Clark	DNP Student	DNP Project Chair	
2020 – 2021	Stephanie Smith	DNP Student	DNP Project Chair	
2020 – 2021	Allison Witmer	DNP Student	DNP Project Chair	
<b>GRADUATES</b>				
2020 – 2021	Seewoo Park	SON Honors Student	Research Mentor	Honor Poster Presentation. <b>Title:</b> Pain regimen differences related to gender of CRNA
2020 – 2021	Ryan Harker	SON Honors Student	Research Mentor	
2020 – 2021	Aiyah Ashouri	SON Honors Student	Research Mentor	
2018- 2021	Jenny Saag	DNP Student	DNP Project Chair	DNP Project Poster Presentation at AANA ADCE and AANA Mid-Year Assembly
2018- 2021	Jarrold Moulds	DNP Student	DNP Project Chair	
2018- 2021	Srinidhi Lakhanigam	DNP Student	DNP Project Chair	Abstract <b>Poster Presentation at DNP Intensive</b>
2018- 2021	Shaquitta Bell	DNP Student	DNP Project Chair	<b>Title:</b> Stress Reduction in Student Registered Nurse Anesthetists (SRNAs) via a Semi-Structured Peer Mentor Program
2018- 2021	Richard Hunnicut	DNP Student	DNP Project Chair	

2018- 2021	Marleigh Jones	DNP Student	DNP Project Chair	DNP Project Poster <b>Presented</b>
2018-2021	Mallory Thompson	DNP Student	DNP Project Chair	AANA Mid-Year Assembly. Abstract <b>Poster Presented</b> for DNP Intensive <b>Manuscript</b> Accepted for Publication <b>Title:</b> CRNA Second Victim Peer Support Protocol
2018- 2021	Hannah Gallant	DNP Student	DNP Project Chair	Abstract Accepted for DNP Intensive
2018- 2021	Sydney Fuchsberger	DNP Student	DNP Project Chair	<b>Title:</b> Reversing Rocuronium: An Alternative to the Current Practice of Neostigmine
2018- 2021	Michael Ward	DNP Student	DNP Project Chair	
2017 - 2020	Dana Teschel	DNP Student	DNP Project Chair	<b>DNP Project:</b> <i>Evaluating a Perioperative Hyperglycemic Protocol in non-cardiac Patients.</i>
2017 - 2020	Laura Phillips	DNP Student	DNP Project Chair	
2017 - 2020	Chase Bryan	DNP Student	DNP Project Chair	Poster Presentation at Assembly of Didactic and Clinical Educators ( <b>ACDE</b> ).
2017 - 2020	Julianna Mize	DNP Student	DNP Project Chair	<b>Sigma DNP Award:</b> Most Clinically Impactful Project
2017 - 2020	Crystal Grayson	DNP Student	DNP Project Chair	<b>DNP Project:</b> Improving Perioperative Smoking Cessation in Orthopedic Surgery
2017 - 2020	Millie Walker	DNP Student	DNP Project Chair	
2017 - 2020	Trey Harris	DNP Student	DNP Project Chair	<b>Sigma DNP Award:</b> Best Visual Poster Presentation
2017- 2020	Ben Edwards	DNP Student	DNP Project Chair	
2018	Wesley O. Waldrop	MS Student	Academic Mentorship	<b>Publication</b> in International Student Journal of Nurse Anesthesia
2018	Rizzianne Miller	MS Student	Academic Mentorship	Submitted Manuscript to International Student Journal of Nurse Anesthesia
2018	Leslie Hackbardt	MS Student	Academic Mentorship	<b>Publication</b> in ALANA News Bulletin
2018	Amanda Stringer	MS Student	Academic Mentorship	Submitted Manuscript to the International Student Journal of Nurse Anesthesia