

Cleveland O. Lane Jr., PhD.

EDUCATION

Texas A&M University, (College Station, TX) (8/2010)

Doctorate of Philosophy - Science Education

Prairie View A&M University, (Prairie View, TX) (8/1996)

Masters of Science – Biology

Prairie View A&M University, (Prairie View, TX) (5/1994)

Bachelor of Science – Biology/Chemistry

TEACHING EXPERIENCE

- **2013-Present** BIOL 1054 Anatomy/Physiology I; BIOL 1064 Anatomy/Physiology II, BIOL 3064 Histology, BIOL 3054 Gross Anatomy, BIOL 5053 Air Pollution, BIOL 4043 Biology for Teachers, 5003 Independent Studies; Community College: BIOL 2404 Anatomy/Physiology, BIOL 2401 Anatomy and Physiology I
- **2008-2013** BIOL 1034 Botany/LAB; BIOL 1054 Anatomy/Physiology I/LAB; BIOL 1064 Anatomy/Physiology II/LAB; Anatomy and Physiology I/LAB, Biology 3064 Histology/LAB; BIOL 5053 Air Pollution/LAB, BIOL 4043 Biology for Teachers/LAB; 5003 Independent Studies, Lone Star College: BIOL 2404 Anatomy/Physiology/LAB; BIOL 2401
- **1999-2007** BIOL 1015 General Biology Labs; BIOL 1025 General Biology Labs; BIOL 1113 College Biology; BIOL 1111 College Biology Laboratories
- **1996-1997** BIOL 1113 College Biology; BIOL 1111 College Biology Laboratory
- **1994-1996** BIOL 1015 General Biology Labs; BIOL 1025 General Biology Labs; BIOL 1111 College Biology Laboratory

PROFESSIONAL INTERESTS

- Integration of STEM Technology into Middle School, High School and Undergraduate Instruction
- Collaboration between Education and STEM Disciplines
- STEM Teacher and Professional Development
- Virtual and Simulation Learning Environments
- STEM K-16 Student and Teacher Outreach

PROFESSIONAL EXPERIENCE

RESEARCH / INTERNSHIPS

- **Differential Effects of Manipulation of Endoplasmic Reticulum Data sets using Image J Analysis Software for Conceptual Understanding in General Biology course**
Thesis
- **Pathogenesis of Sickle Cell Disease on the Retina – UMDNJ – Newark, NJ**
Summer Research
- **Mycotoxin Production and Oil Degradation – Prairie View A&M University**
Research Assistant
- **Information Technology in Science – Science Education Specialist Program – Texas A&M University**
Graduate Student
- **Information Technology in Science – Science Education Specialist Program – Texas A&M University**

Publications/Citations

- Lane, C. & Freeman, P. (2018) *Increasing STEM diversity*. Abstract submitted to American Educational Research Association. (Pending)
- Lane, C., Mndeme, S., Freeman, P. & Freeman, L. (2018) *Students and Teachers Enhancing Performance in Science (STEPS)*. Paper presented Hawaii University International Conferences on STEM/ STEAM , Honolulu , Hawaii, ISSN 2333-4908
- Moore, Q., Olorunyomi, E., Dubose, M. & Lane, C. (2017) *Assessment of Keratitis Damage in an Age Dependent Mouse Model Using Analytical Software*. Pursue Journal (1)1.
- Lane, C. (2016) *Pilot Study: Integration of 3-D Dissection Table into Undergraduate Gross Anatomy Course*. The FASEB Journal. Volume 30, Issue 1 Supplement.

Presentation

- Lane, C. (2018) Students and Teachers Enhancing Performance in science (STEPS), Hawaii University Proceedings for International Conferences on STEM/ STEAM , Honolulu , Hawaii (Speaker)
- Lane, C. (2018) McGraw-Hill sponsored Integrating Anatomy and Physiology Revealed in your Anatomy and Physiology Courses, Human Anatomy and Physiology Conference, Columbus, Ohio (Speaker)
- Lane, C. (2017) Application of Anatomy teaching with Innovative Technology, China Medical University, Taichung, Taiwan (Invited Keynote Speaker)
- Lane, C. (2017) Best practices of undergraduate instructional technology, PVAMU S.M.A.R.T. Technology Conference, Prairie View, Texas (Keynote Speaker)
- Lane, C. (2017) Pre-Health Advisory, Empower 2, Preparing a Competitive HBCU applicant pool for Health Science Career, Nashville, TN (Invited Speaker)
- Lane, C. (2016) Integration of 3-D dissection table into Gross Anatomy Course, TAMU Teaching with Technology Conference, College Station, Texas (Speaker)
- Lane, C. (2016) McGraw-Hill sponsored Innovative Teaching Summit, Houston Community College, Houston, Texas (Speaker)
- Lane, C. (2016) Best practices for using a Virtual dissection table in an Undergraduate course, Anatomage User group. San Jose, CA (Invited Speaker)
- Lane, C. (2014) Using apps in Biology Undergraduate Instruction, TAMU Teaching with Technology Conference, College Station, Texas (Speaker)

Research Mentorships

Doctoral Dissertation Committees

- The Principal as A Change Agent in A Turnaround School A Single Site Phenomenological Case Study -Tony Hancock [12-1-14](#)

An Exploratory Study of African American Developmental Students' Learning Styles and Other Academic Factors At A Historically Black College In The South Central Region Of Texas - Lisa A. Waldrup-Johnson 12-13-14

An Investigation of African American Students Achievement in Mathematics Enrolled in High and Low Achieving Elementary Schools - Gene Simmons 12-13-14

The Impact Of A Turnaround Program On Drop Out And Graduation Rates Of African American And Hispanic Students Attending An Urban School District In Texas - Classie Terry-Williams 8-8-15

Factors That Impact Academic Success and Persistence of First-Time Freshmen Students in A Living-Learning Community at A Historically Black College and University in Texas: A Quantitative Causal Predictive Study-Machara Delaney 12-10-16

Research On Reading Interventions for Instructional Leaders of African American Kindergarten Students in Texas -Danyelle Simone Reece 12-10-16

Young Elected Official's Emotional Intelligence, Transformational Leadership, And Priorities of Educational Policies: An Exploratory Study- Brian E. Rowland 05-13-17

Masters

An Analysis of Particulate Air Pollution from a Houston Residential Neighborhood – **Charles McFails**

Undergraduate

IRise-Up 3rd Place Poster Presentation (2016) – Prairie View A&M University

Robert Ponton

STEP- Summer Internship- Prairie View A&M University (2015)

Mentor for Emmanuel Olorunyami

L-SAMP Louis Stokes Alliances for Minority Participation (LSAMP) (2014)-Prairie View A&M University

Mentor for DeMarcus Briers

Biology Research Symposium (2013- Present) Judge

Student Organization, Activities and Awards

- **Pre-Dental Club (Advisor)**
 - Early Acceptance program - Texas A&M College of Dentistry
 - Early Acceptance program – University of Texas San Antonio
 - Early Acceptance program – University of Texas Houston
 - Middle school Density day
- **Peer Pre-Natal Educators (Advisor)**
 - Hosted State Pre-Natal Training (2013, 2018)
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- **Minority Association of Pre-Health Students (Advisor)**
 - Annual Health Profession Conference (Since 2000)
 - *Outstanding Student Organization (2011)*
 - *Presidents Cup Award (2011)*
 - *Outstanding Service Award (2011)*

COMMITTEES

- **PVAMU 2020 SACS Faculty Development committee (2018)**

- Academic Governance
- Faculty Development
- Baylor College of Medicine - Center of Excellence in Health Equity's Inaugural Research Summit (2018) Judge
- Baylor College of Medicine: Center Of Excellence Advisory Council (2017-Present)
- Faculty Senate (Member at large, 2017; Vice Speaker, 2018)
- Texas Association of Advisors for Health Professions (Executive Board: Member at Large, 2016-2018)
- Department of Biology Self Study – Co-Chairperson (2017)
- Curriculum Advising and Program Planning (CAPP) Trainer, University, 2013-2016
- Academic Affairs Technology Council, Member, 2016, 2017, 2018
- DegreeWorks Advisory Committee, Member, 2016, 2017
- Business of the University Conference Committee, Member, 2016, 2017, 2018
- Prairie View A&M University Retention Committee-*Member*
- Human Anatomy and Physiology Committee-*Member*
 - Curriculum and Instruction Committee
- Nursing School Retention Committee-*Anatomy and Physiology Representative*
 - Evaluate Setup a preparatory module for pre-nursing students and
- Anatomy and Physiology Instructional Committee- *Chairperson*
 - Amended curriculum, added additional BIOPACS, case studies, oral and written presentation, and statistical component
- Biology Curriculum Assessment & Learning Outcomes-*Member*
 - Acquired necessary materials to pass to accreditation periods
- Biology Recruitment and Retention Committee-*Chairperson*
 - Each year the department has maintained a steady growth and Largest Department in the Life Sciences and Second Largest in the College of Arts and Sciences
- Environmental Health and Safety Advisory Committee-*Member*
 - Set University Environmental Health and Safety policy
- National Council for Accreditation of Teacher Education (NCATE) –*Member*
 - Prepared the Life Science component for NCATE accreditation
- Biology Instructional Technology and Laboratory Development –*Chairperson*
 - Introduction of Biomedical equipment, iPads, SmartBoards, Built-out Bioinformatics laboratory, Animal facilities and Teaching Laboratories

PROFESSIONAL DEVELOPMENT AND PROGRAMS

- Prairie View A&M University Grant Writing (2013,2017)
- National Center for Case Study Teaching in Science-*Scholar recipient and participant (2011)*
- P.H.I.L.S. software for McGraw-Hill-*Software Reviewer (2010)*
- iCLICK Conference-*Reviewer (2011)*
- McGraw-Hill Anatomy Symposium-*Reviewer (2010)*
- National Cancer Institute Contract Workshop
- ITS-Science Education Specialist Certificate Program
- Presenting Data and Information Edward Tufte
- Professional Grant Development Workshop
- Health Careers Opportunity Program – *Assistant Director (6 Years)*
- ITS-Science Education Specialist Certificate Program – *CRP (2 Years)*
- NASA-Pre-Service Science Institute – *Science Educator (3 Years)*
- Introducing Technology in Classroom for K-12 – *Science Technology Educator (1 Year)*
- Training for Faculty in Instructional Technology – (Monthly)

FUNDED PROJECTS AND PROGRAMS

- (2017) Curriculum Developer- Bee Busy DREAMS project (5 year project)- Curriculum Developer
- (2017) PVAMU-Mini Grant : Exploring Biology Through Inquiry (\$20,000)
- Increasing Critical Thinking in Biology Laboratories , \$125,000 per year / 5 years, Assistant Director
- Technology Supported Inquiry Learning in Laboratories , \$125,000 per year / 5 years, Assistant Director
- Reform of Undergraduate and Graduate Curriculum, \$125,000 per year / 5 years, Assistant Director
- Lecturer Series Partnership between Prairie View A&M University and Kashmere High School, \$2,000, Director
- Prairie View A&M University and Kashmere High School Science Camp, \$2,000, Director
- Health Careers Opportunity Program- Pre-Medical Concepts Institute, \$250,000/ 6 years, Assistant Director
- Health Careers Opportunity Program- Middle Science Concepts Institute, \$50,000/ 6 years, Assistant Director

HONORS AND AWARDS

- Chancellor's Academy of Teacher Educators (2018)
- Colligate 100 Service Award (2017)
- PVAMU Leadership (2016)
- Brailsford College of Arts and Sciences Faculty of the Year (2013)
- Prairie View A&M University Biology Department Faculty of the Year (2013)
- Prairie View A&M University Advisor of the Year (2011)
- Prairie View A&M University Student Organization of the Year (2011)
- Prairie View A&M University Presidents Award of the Year (2011)
- Texas A&M University System Teacher Excellence Award (2010)
- Minority Association Pre-Health Students Leadership Award (2008)
- Prairie View A&M University Service Award (2003)

Professional MEMBERSHIPS

- Texas Association of Advisors for Health Professions (Executive Board: Member at Large, 2016-2018)
- Human Anatomy and Physiology Society (Committee: Curriculum and Instruction)
- American Association of Anatomist
- American Association for the Advancement of Science
- National Association of Research in Science Teaching
- National Science Teachers Association
- Texas Association of Black Professional in Higher Education
- Omega Psi Phi Fraternity, Incorporated.