David Brooks

Science Educator

Email: dbrooks@tamusa.edu

Assistant Professor of Anatomy & Physiology in Life Science
Department of Texas A&M University at San Antonio.

Experience

Texas A&M University- San Antonio

August 2021- present

Instructional Assistant Professor of Biology

Coordinate Anatomy and Physiology courses. Member of Health Professions Advisory Committee.

Texas A&M University- San Antonio

August 2020- August 2021

Biology Lecturer

Teach Anatomy and Physiology courses. Member of Health Professions Advisory Committee.

Mobberly Baptist Church (P/T)

June 2019- December 2019

IT Assistant

Tier 1 technical service. Install and support Windows, Office, and Network.

Hallsville Junior High School HISD

August 2018 - June 2019

7th Grade Science Teacher

Teaching 7th grade science.

Christain Heritage School of Longview

August 2016 - June 2017

Dean of Faculty and Physics Instructor

Teaching PreAP Physics, Conceptual Physics and Evaluating Faculty

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East Texas Baptist University

July 2008 - May 2016

Associate Professor

Teaching Human Anatomy & Physiology, Microbiology, & Pathophysiology for allied health majors. General Biology and Immunology for science majors. Life Science, General Science and Field Ornithology for nonmajors. Co-coordinator for Health Profession Advising Maintain and repair physiological data acquisition systems, Leica microscopes, and Histological equipment. Repair physiology models and skeletons.

East Texas Baptist University

July 2002 - July 2008

Vice President

Coordinated the student related units on campus. These units covered a broad range of functions including; residential life, student discipline, new student orientation, campus activities and special events, summer camps, student leadership, student government, campus service organizations, cheerleaders, drill team, and student insurance. Developed the Master Plan with Budget and Institutional Effectiveness Plan for the division. Increased student satisfaction index from 80% to 92%. Maintained balance budget even with economic downturn with 50% reduction in staff.

Ouachita Baptist University

July 1998 - June 2002

Assistant Professor

Courses taught: Human Anatomy and Physiology I & II, Histology, Developmental Biology, Life Science (non-majors). Health Professions Advisor. Tract tracing of connections to visual Suprachiasmatic nucleus of two week old chicks. Antibody tracing with stereotaxic injections of tracer. Acoustical survey and identification of Bats of Southwest Arkansas. The Anabat detection system was utilized to survey forest bats. Nuisance colonies were excluded from residences and relocated to bat houses designed by students.

LeTourneau University

July 1994 - June 1998

Assistant Professor

Coordinated the Biology Program at LETU. Taught Animal Physiology, Biology, Cell Biology, Ecology, Genetics, Human A&P, Immunology, Biochemistry, Life Science, Comparative Morphology (combination of Histology, Embryology, and Comparative Anatomy) Coordinator of Health Professions Advising.

Education

Texas A&M University
1989 - 1994

Doctor of Philosophy (Ph.D.), Zoology

Texas A&M University
1986 - 1989

Master of Science (M.S.), Plant Pathology and Microbiology

East Texas Baptist College
1979 - 1983

Bachelor of Science (B.S.), Biology with Chemistry and Religion minors,

Organizations

Professional

Human Anatomy & Physiology Society 2020, 2021, 2022

HAPS Annual Conference, May 23-26, 2021

Texas Association of Advisors for the Health Professions 2020, 2021, 2022

American Association of Anatomists, 2022

Research/Publications

East Texas Baptist University

Presentations

- Presented lecture on Survey of (north)east Texas bat reports: Connecting the dots… at Texas Academy of Science, Feb 2015
- Presented lecture on Teaching with TED at Texas Academy of Science, Feb 2014
- Presented proposal on Acoustical Survey of Bats in Northeast Texas, 19th Annual Meeting of the Southeastern Bat Diversity Network and 24th Colloquium on the Conservation of Mammals in the Southeastern US, Feb 2014.

Ouachita Baptist University

Undergraduate Research Projects

- Mapping the Projections of the Avian Suprachiasmatic Nucleus
- Protective effects of Melatonin to Alcohol induced damage to Developing Embryos
- Survey of Bat Populations in Southwest Arkansas
- Analysis of Southwest Arkansas Bat Calls By Use of Analook Software

LeTourneau University

- Undergraduate Research- Bat house distribution and Survey of local bats of Letourneau University.
- Caddo Lake Model park for local school districts field trips

Publications:

1. Brooks, D.S. “Learning as for the Lord”, in College Faith 3: 4-5, 2006.

2. Cassone, V.M., D.S. Brooks and T.A. Kelm. "Comparative distribution of 2-[^{125}I]iodomelatonin binding in the brains of diurnal birds: Outgroup analysis with Turtles," Brain Behav. Evolution 45:241-256, 1995.

3. Brooks, D.S., C.F. Gonzalez, D.N. Appel and T.H. Filer. “Evaluation of endophytic bacteria as potential biological control agents for oak wilt,” Biological Control: theory and applications in pest management, v. 4,

373-381, 1994.

4. Brooks, D.S. "Developmental and Circadian regulation of 2-[^{125}I]iodomelatonin binding in the chick brain," Ph.D. Dissertation, Texas A&M University, 123 pages, 1994.

5. Cassone, V.M., W.S. Warren, D.S. Brooks and J. Lu. "Melatonin, the pineal gland and circadian rhythms," J. Biol. Rhythms 8:S73-S81, 1993.

6. Cassone, V.M., D.S. Brooks, D.B. Hodges, T.A. Kelm, J. Lu and W.S. Warren. "Integration of circadian and visual function in mammals and birds: brain imaging and the role of melatonin in biological clock regulation," Advances in Metabolic Mapping Techniques for Brain Imaging of Behavioral and Learning Functions. F. Gonzales-Lima, T. Finkenstaedt, and H. Scheich, eds., Kluwer Academic Publishers, Dordrecht/Boston/ London, pp. 299-318, 1992.

7. Brooks, D.S. and V.M. Cassone. "Daily and circadian patterns in 2-[^{125}I]iodomelatonin binding in specific sites of chick brain," Endocrinology 131:1297-1304, 1992.

8. Cassone, V.M. and D.S. Brooks. "The sites of melatonin action in the brain of the house sparrow, *Passer domesticus*," J. Exp. Zool. 60:302-309, 1991.

9. Brooks, D.S. "Evaluation of endophytic bacteria from live oaks as potential biological control of oak wilt," M.S. Thesis, Texas A&M University, 76 pages, 1989.