Stephen B. Adams

Education

M.S. Physics, 2015, Auburn University, Auburn, AL. GPA - 3.43

B.S. Physics, Stephen F. Austin State University, 2012, Nacogdoches,TX. GPA - 4.0

M.M. Piano Performance, 2005, Stephen F. Austin State University, Nacogdoches, TX. GPA - 3.83

B.M. with Distinction, Sacred Music - Piano Emphasis, Summa Cum Laude, 1998, East Texas Baptist University, Marshall, TX. GPA - 3.97

Employment

Lecturer, Auburn University Physics Department
Spring 2020 - Current
Taught lecture sections for freshman-level Physics I and II classes, both trigonometry-based and calculus-based courses (PHYS 1500 and 1510, PHYS 1600 and 1610). Responsibilities included lecturing and preparing class exams as well as contributing/editing material for department-wide common final exams, assigning laboratory work, and overseeing teams of teaching assistants. Taught lecture sections for both an intro-level physics course and an intro-level interdisciplinary science course designed to fulfill general science requirements for non-science majors (PHYS 1000 and SCMH 1010). Contributed original questions to a remedial Canvas course designed to bolster general math and problem-solving skills among students in introductory physics classes who have tested below the expected mathematics proficiency level. See attached detailed list of classes taught.

Instructor of Physics, Auburn University Physics Department
Fall 2016 - Fall 2019
Department Head: Dr. James Hanson
See Lecturer position above for teaching responsibilities.

Graduate Teaching Assistant, Auburn University Physics Department
Fall 2012 - Summer 2016
Supervisor: Mr. Dave Patrick
Taught laboratory sections for undergraduate sections of PHYS 1000, Conceptual Physics, and PHYS 1607/1617, Honors Freshman Physics. Responsibilities included determining course content, lecturing, writing and grading exams, and overseeing a laboratory teaching assistant.

Research Assistant, Auburn University Dusty Plasma Group
May 2015 - August 2015
Supervisor/Advisor: Dr. Ed Thomas

Conducted experiments in vortex formation in dusty plasmas. Oversaw design of and construction of various simple mechanical equipment related to group activities. Responsibilities included gathering data that was ultimately presented at an American Physical Society conference poster session in the Fall of 2015.

Undergraduate Research Assistant, Stephen F. Austin State University Physics Department
Fall 2010 - Spring 2011
Supervisor: Dr. Joseph A. Musser

Assisted in the construction of a heating chamber and an external cavity diode laser for the purpose of conducting spectroscopic experiments on potassium vapor.

Instructor of Piano, Music Preparatory Division of Stephen F. Austin State University Music Department
Fall 2009 - Summer 2012
Supervisor: Mrs. Pat Barnett

Provided individualized piano instruction for pre-college students and non-music major university students. Prepared students for and organized semi-annual recitals.

Server/Bartender/Keyed Employee, Clear Springs Restaurant
2007-2012

Responsible for general table service as well as bar inventory and service. As a keyed employee, was responsible for assisting management in ensuring peak-time logistical efficiency.

Self-Employed, Touring Musician
2003-2008

Kept active performance schedule as a traveling bass player. Averaged approximately 160 performances per year, traveling over the South/Midwestern United States. Responsible for contributing to songwriting, arranging, and technical audio aspects, both live and in recording studios.

Graduate Assistant, Music Department of Stephen F. Austin State University
Fall 1999 - Spring 2001

Supervised technical aspects of audio recording of all scheduled music department events. Coordinated scheduling for a crew of undergraduate assistants. Wrote proposals for and oversaw purchasing of audio recording equipment.

Audio Visual Supervisor, East Texas Baptist University

Summer 1998 - Spring 1999
Supervised technical aspects for all university events requiring audio or video support. Coordinated scheduling for a crew of undergraduate student workers. Worked with faculty to enable the use of audio and video elements in lecture.

Awards and Honors

Summa Cum Laude With Distinction, B.M., East Texas Baptist University, 1998.

Outstanding Physics Graduate, B.S., Stephen F. Austin State University, 2012.

Outstanding First-Year Physics TA, Auburn University, 2012 - 2013.

Societal Membership

AAPT, active member

ΣΠΣ National Physics Honors Society, alumni

ΠΜΕ National Honorary Mathematics Society, alumni

ΦΜΑ Sinfonia National Music Service Fraternity, alumni