

James Franklin Newland

EMPLOYMENT HISTORY

Teacher - Bellaire High School (Houston ISD)

September 1996 – present

Supervisor: Tim Salem, principal

- Certified Advanced Placement and International Baccalaureate instructor
- Courses taught at Bellaire High School:
 - Computer math 1996 - 2001
 - Web design (course & curriculum designed by J Newland) 2000 - 2002
 - AP & IB computer science 1996 - present
 - Introductory computer science (curriculum designed by J Newland) 2008-2009
 - Astronomy (course & curriculum designed by J Newland) 2008 - present
- Certifications held in Texas: physics, computer science

Adjunct Professor Univ. of N. Texas School of Library and Information Sciences

Fall 2004 – present

Supervisor: Dr. Ana Cleveland

- Taught an introductory and an advanced web design course for the SLIS graduate program in Houston, TX with both face-to-face and online components using WebCT & Blackboard

Campus Network Specialist, Bellaire High School (Houston ISD)

Fall 2001 – Spring 2008

Supervisor: Tim Salem, principal

- Campus Network Specialist: Coordinated campus technology policy & budget, designed & implemented training courses, oversaw campus technical support, created web content & web applications for campus use, grant writing and implementation; Concurrent with teaching position

ASTRONOMY & PHYSICS RELATED PROFESSIONAL EXPERIENCE

Public Star Parties & Sidewalk Astronomy

Fall 2008 – present

- Organized, hosted and ran public star parties as part of astronomy course and organized sidewalk astronomy ongoing event with Houston Public Library.

Graduate research: Development of a Thermal Plasma Moment Analyzer Based on a Superconducting Line (2-D) Dipole Electromagnet

Spring & Summer 1996

- Dr. Edgar Bering; Jimmy Newland Research Assistant - University of Houston Space Physics

Senior undergraduate research: The Cosmic Gamma-Ray Background Above the Earth's Atmosphere Spring 1994

- Jimmy Newland & John Patrick Lestrade, Mississippi State University - presented at Mississippi Academy of Sciences, 59th Annual Meeting

Observatory Manager Mississippi State Department of Physics & Astronomy

Fall 1993 – Spring 1995

- Hosted observing sessions for astronomy classes and the public at Mississippi State University Physics & Astronomy Department Observatory in Starkville MS

Student Lab Manager Mississippi State Department of Physics & Astronomy

Spring 1993 – Spring 1995

- Distributed and collected labs equipment and materials for undergraduate course laboratory sections

COMPUTER SCIENCE & TECHNOLOGY RELATED PROFESSIONAL EXPERIENCE

Master Teacher for Computer Science Computing and Mentoring Partnership (CS-CAMP) for High School & Middle School Girls at Rice University

Fall 2003 – Summer 2008

Primary contact: Michael Sirois

- Created curriculum, taught coursework, and led a team of other HISD computer science teachers for the CS-CAMP project for the Center for Excellence and Equity in Education at Rice University

Consultant for HISD Library Services

Ongoing since 2001

Primary contact: Deborah Hall

- Training, web design, curriculum development for librarian professional development

HISD Student Portal Design Team

2003-2004

- Member of the initial design team for the roll-out of HISD's student web portal

Librarian's Internet Research Institute

Summers 1998-2002

- Co-taught summer institute for librarians focusing on Internet research skills, web design, and other related topics for HISD library services department

Consultant for City of Bellaire Library

Summer 2002

- Designed the former website for the City of Bellaire library

Various HISD & Bellaire HS Teacher Training Sessions

- Perform professional development for teachers covering a variety of technology-related topics

EDUCATION

University of Houston College of Education

December 1999

- *Masters of Science in Education (Curriculum and Instruction: science emphasis)*

University of Houston Dept of Physics

Fall 1995 - Summer 1996

- *Research and Teaching Assistant in Space Physics – no degree conferred*

Mississippi State University

May 1995

- *Bachelors of Science in Physics and Astronomy*

VOLUNTEER EXPERIENCE

Emerson Unitarian Universalist Church

Fall 2001 - 2008

Youth group advisor, worship committee, religious education committee