

# Miranda Jo Creighton Davenport

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## Education:

### **Doctor of Philosophy in Geospatial Information Sciences**

University of Texas at Dallas

*In Progress*

Richardson, Texas

**Related course work:** advanced remote sensing, advanced statistical data analysis, pattern analysis and machine learning using R software; web-based GIS using ESRI ArcGIS Online and Java programming; GPS surveying techniques; 3D data capture; ground LiDAR acquisition and processing

**Related Projects:** sUAV Photogrammetry for Terrain Analysis; Historical Travel Spots Application

**Dissertation Topic:** Geospatial Analysis of Cemetery Databases and Regional Examination with Deep Mapping

### **Master's of Science in Geospatial Information Sciences**

University of Texas at Dallas

*Received: Fall 2015*

Richardson, Texas

Thesis: *Binary Logistic Regression for Mayan Archaeological Site Prediction*

**Related course work:** training in statistical data analysis using R software; remote sensing; python, SQL, and VB.NET programming; hotspot, kernel density, and choropleth mapping as well as neighborhood/zonal analysis; remote sensing and LiDAR; geocoding; model builder; and advanced techniques for their applications to GIS

**Related projects:** Dennis Rader's Spatial Decisions and the Path to Serial Murder; A Space and Travel Pattern Analysis of "Jack the Ripper"

### **Bachelor of Liberal Arts cum laude, Anthropology**

**Certificate, Geographical Information Systems**

**Minor, Geology**

University of Texas at Arlington

*Received: Fall 2013*

Arlington, Texas

**Related course work:** training in human osteology, zooarchaeology, forensic cut mark analysis, cultural anthropology, linguistics, archaeology, recovery and examination of human remains in an archaeological context, ArcGIS, and remote sensing

**Related projects:** A Historical Analysis of Camp Bowie during World War I; The Ideological Significance of Mayan Caves and an Examination of Cave Sites featuring Human Osteological

Remains; The History and Interpretation of Sueno's Stone in Forres, Moray; The Events Regarding the Whig's Vault Covenanters of Dunnottar Castle

**Associate in Applied Sciences**, Licensed Paramedic  
Hill College

*Received: May 2005*  
Cleburne, Texas

**Related course work:** knowledge of biological sciences, use of medical terminology, clinical treatment of patients, charting and report writing, training for the response and treatment of medical care in adverse, unstable, and rapidly changing conditions

## **Publications**

- 2018 Camp Bowie 1917-1919. Map in From Cowboys to Doughboys. *In U.S.: A Narrative History Special Texas Edition, Vol II*, James West Davidson, Brian Delay, Christine Heyman. McGraw Hill Publishers, 8<sup>th</sup> edition.
- 2018 1917-1920 U.S. Army Airfields Fort Worth, Texas. Map in From Cowboys to Doughboys. *In U.S.: A Narrative History Special Texas Edition, Vol II*, James West Davidson, Brian Delay, Christine Heyman. McGraw Hill Publishers, 8<sup>th</sup> edition.

## **Awards:**

### 2020 – Little Egypt project:

- 2018-2019 Innovation of the Year – Dallas County Community College
- 2019-2020 Innovation of the Year – Dallas County Community College
- Community College Excellence Award - League for Innovation
- 2020 Education Award – Preservation Dallas

## **Courses Taught:**

### University of Texas at Dallas:

Spatial Thinking and Data Analytics	GISC/GEOS/EPPS 2305.001	Fall 2021
World Regional Geography	GEOG 2303.001	Fall 2022

### Tarrant County College:

GIS Design with Raster Analysis	GISC 2402
GIS Design with Vector Analysis	GISC 2404
Programming for GIS	GISC 2435

### Weatherford College:

World Regional Geography	GEOG 1303
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Dallas College:

World Regional Geography	GEOG 1303
Physical Geography	GEOG 1301

**Work History:**

Teaching Assistant	University of Texas at Dallas	1/2021 –
Instructor of GIS	Tarrant County College	8/24/20 – 12/18/20
Adjunct Professor	Weatherford College	06-08/2020; 06-08/2021
Adjunct Professor	Tarrant County College	1/2020 – 8/24/20
Adjunct Professor	Richland College (DCCCD)	8/2019 – 5/2021
GIS Technician	Bartlett & West	6/2016 – 6/2019