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**Dana Steil, Ph.D.**  
**Assistant Professor**  
**College of Sciences**  
**Harding University**  
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## **Academic Background**

### **Ph.D.**

Ph.D. The University of Alabama, 2010

### **M.S.**

M.S. University of Alabama, Tuscaloosa, Computer Science, 2008

### **M.S.E.**

M.S.E. Harding University, 2004

### **B.S.**

B.S. Harding University, Searcy, AR, Computer Science, 1997

## **Professional Memberships**

Association for Computing Machinery, 2010-2016

## **Work Experience**

### **Work Experience**

Assistant Professor, Harding University (August, 2000 - Present), Searcy AR, United States of America.

Graduate Research Assistant, University of Alabama (May, 2007 - July, 2010), Tuscaloosa AL, United States of America.

Contract Programmer, ABC Financial (May, 2005 - August, 2006), Sherwood AR, United States of America. Summer Contract Work

Software Developer/Technical Lead, Alltel (1997 - 2000), Little Rock, Arkansas. Technical lead within the Service Delivery department, training Instructor, developer, tech-lead, and client-architect

Student Programmer, Harding University (1995 - 1999), Searcy, Arkansas. Programmed/maintained registration, admissions, payroll, and statistics software for the administration.

Summer Programmer Intern, CUO (1996 - 1996), Harrison, Arkansas. Maintained cable-billing systems Internationalized portions of products

C++ Lab Assistant, Harding University (1995 - 1996), Searcy, Arkansas. Graded lab assignments, homework, flow charts, and programs

Tutored students in the syntax of C++ and directed them as they worked on programming assignments.

Laborer, Bob Newnam Builders (June, 1995 - August, 1995), Danville, Virginia. Electrician's assistant

Youth Ministry Intern, Waters Road Church of Christ (June, 1994 - August, 1994), Pasadena, Texas.

Youth Ministry Intern, Wheeler Road Church of Christ (June, 1993 - August, 1993), Midland, Michigan.

## **Teaching**

### **Courses Taught**

### **Courses taught, but not in the Schedule:**

COMP 150 - Programming 1  
COMP 245 - Data Structures  
COMP 170 - Software Development  
COMP 301 - Software Engineering  
COMP 345 - Object Oriented Programming  
COMP 310 - Operating System  
COMP 439 - Computer Science Seminar  
COMP 425 - Parallel Programming  
COMP 440 - Capstone Software Development  
COMP 475 - Game Programming  
HRNS 205 - Human Situation 3

## **Intellectual Contributions**

### **Refereed Articles**

- Ding, L., Steil, D., Dixon, B., Kraft, N. A., & Brown, D. B. (2013). FIRST: A Framework to Integrate Relationship Search Tools. *International Journal of Computers and Applications.*, doi: 10.2316/Journal.202.2013.3.202-3609.
- Keskin, B. B., Li, R., Steil, D., & Spiller, S. (2012). Analysis of an Integrated Maximum Covering and Patrol Routing Problem. *Transportation Research Part E, Logistics and Transportation Review*, 48 (1), 215-233, doi: 10.1016/j.tre.2011.07.005.
- Ding, L., Steil, D., Dixon, B., Parrish, A., & Brown, D. (2011). A Relation Context Oriented Approach to Identify Strong Ties in Social Networks. *Knowledge-Based Systems.*, doi: 10.1016/j.knosys.2011.05.006.
- Steil, D., Pate, J. R., Kraft, N. A., Smith, R. K., Ding, L., Allen Parrish (2010). Patrol Routing Expression, Execution, Evaluation, and Engagement. *IEEE Transactions on Intelligent Transportation Systems*, 12 (1), 58 - 72, doi: 10.1109/TITS.2010.2065224.
- Steil, D. & Parrish, A. (2009). HIT: A GIS-Based Hotspot Identification Taxonomy. *International Journal of Computers and Their Applications*, 16 (2), 1-10.

### **Refereed Proceedings**

- Steil, D. (2013). Multi-Factor Optimization of Police Presence Using An Automated GIS Tool. *GIS for Transportation*.
- Steil, D. (2012). Information Sharing and Sustainability Among States. *Traffic Records Forum*.
- Steil, D. (2010). Building Geospatial Analytical Capabilities for Data Fusion and Intel Centers (All Hazards through All Risks). *ESRI International UC, San Diego CA, August 2009*.
- Steil, D. (2009). Architecture for Patrol Routing Simulations. *ESRI International UC, San Diego CA, August 2009*.
- Steil, D. (2008). Reducing Traffic Fatalities Using GIS Data as a Deployment Guide. *ESRI International UC, San Diego CA, August 2008*.
- Steil, D. (2008). Toward a Trooper Advisory System Using Crash and Citation Data. *ESRI SERUG, Jacksonville FL, April 2008*
- Steil, D., Hong, X., & Ding, L. (2009). A Mobility Camouflaging Evaluation Tool. *ACM Southeast, Clemson SC, March 2009*, Proceedings of the 47th Annual Southeast Regional Conference Article No. 7.
- Ding, L., Steil, D., Hudnall, M., Dixon, B., Brown, D., Allen Parrish (2009). PerpSearch: An Integrated Crime Detection System. *IEEE Intelligence and Security Informatics*.
- Steil, D. & Hong, X. (2008). A Milepost Network Protocol for Vehicle Tracking and Trooper Deployment. *International Conference on Wireless Networks, Las Vegas NV, July 2008*.

### **Non-Refereed Proceedings**

- Steil, D. (in press, 2015). Callback System – Accounting for Use of Highway Patrol System in Mississippi. *Traffic Records Forum*.

Steil, D. (2014). Integration of Collision and Violation Data for Optimal Spatio-Temporal Deployment of Traffic Enforcement. *Edmonton International Conference on Urban Traffic Safety*. (Invited)

Steil, D. (2011). Safer Roads Through Effective Traffic Safety Management. *Spatial Roundtable*. (Invited)

## Grants

### Service

2016: Steil, D. General Maintenance of eCite & DAS Dashboards, Reports, DAS & Callback System, Principal Investigator, National Highway Traffic Safety Administration.

2015: Steil, D. General Maintenance of eCite & DAS Dashboards, Reports, DAS & Callback System, Principal Investigator, National Highway Traffic Safety Administration.

2015: Steil, D. Mississippi DUI Component Development & Maintenance of eCite & DAS Dashboards, Reports, DAS & Callback System, Principal Investigator, National Highway Traffic Safety Administration.

2015: Steil, D. eCite Paper Entry and MOVE eCite Search Functionality, Principal Investigator, National Highway Traffic Safety Administration.

2015: Steil, D. eCitation and ATLAS System for the Arkansas State Police, Principal Investigator, National Highway Traffic Safety Administration.

2015: Steil, D. eCrash and Mapclick Systems for the Arkansas State Police, Principal Investigator, National Highway Traffic Safety Administration.

2015: Steil, D. Property Management Systems Reporting for the Arkansas State Police, Principal Investigator, National Highway Traffic Safety Administration.

2014: Steil, D. Mississippi Callback System - 2014, Principal Investigator, Mississippi DPS.

2014: Steil, D. Mississippi eCitation Dashboard - 2014, Principal Investigator, Mississippi DPS.

2014: Steil, D. ADVANCE and Crash Summary Report Development, Principal Investigator, ACJIC - SADIP.

2014: Steil, D. Traffic Safety Projects for Alabama - 2014, Principal Investigator, ADECA.

2014 [Year 4 of 4]: Steil, D. Citation Issuance Support System and Electronic Data Transfer for Arkansas State Police (2010-2014), Principal Investigator, Arkansas State Police.

2013: Steil, D. Traffic Safety Projects for Alabama - 2013, Principal Investigator, ADECA.

2013: Steil, D. Traffic Safety Projects for Alabama - 2013 Part 2, Principal Investigator, ADECA.

2013: Steil, D. Mississippi eCitation Dashboard - 2013, Principal Investigator, Mississippi DPS.

2013: Steil, D. Mississippi eCitation Dashboard - 2013 Part 2, Principal Investigator, Mississippi DPS.

2013: Steil, D. Dispatch Application Development for the State of Alabama, Principal Investigator, ACJIC - CVISN.

2012: Steil, D. Traffic Safety Projects for Alabama - 2012, Principal Investigator, ADECA.

2012: Steil, D. Mississippi eCitation Dashboard - 2012, Principal Investigator, Mississippi DPS.

2012: Steil, D. Dispatch Application Development for the State of Alabama, Principal Investigator, ACJIC - CVISN.

2011: Steil, D. Criminal Justice Projects for the State of Alabama, Principal Investigator, ACJIC.

2011: Steil, D. Commercial Motor Vehicle Traffic Safety Projects for the State of Alabama, Principal Investigator, ACJIC - CVISN.

2011: Steil, D. Mississippi eCitation Dashboard - 2011, Principal Investigator, Mississippi DPS.

2010: Steil, D. Virtual Alabama Enhancements, Principal Investigator, ACJIC.

2010: Steil, D. Traffic Safety Projects for Alabama - 2010, Principal Investigator, ADECA.

## Software

### Software

2015: Mississippi eCitation Paper Entry System.

2014: MapClick for Arkansas.

2014: Mississippi Callback System.

2014: Mississippi eCitation Dashboard.

2013: Arkansas Threat Level Assessment System.

2012: Arkansas Dashboard for Visualization Analysis and Coordinated Enforcement.

2011: Alabama Safety Portal.

2009: Alabama Dashboard for Visualization Analysis and Coordinated Enforcement.

## **Service**

### **Service to the Institution**

#### **University Assignments**

##### **Member:**

2014-2015 – 2015-2016: Global Literacy Committee

## **Honors/Awards**

#### **Award**

2011: Teacher Achievement Award, Harding University.

1996: , Kenneth Rose memorial Scholarship.

1996: , Timothy Yates memorial Scholarship.

#### **Honor**

2008: GSA Conference Second Place Presentation Award, University of Alabama.

2008: Graduate Student of the Month (March), University of Alabama.

2008: National Honor Society for Computer Science, • Upsilon Pi Epsilon.

#### **Scholarship**

2007: Graduate Council Fellowship, University of Alabama.

## **Miscellaneous**

#### **Other**

2013 - Chi Sigma Alpha Social Club Sponsor

2000 - Computer Science Club Sponsor (2000-2004)

1996 - Chi Sigma Alpha Social Club

1994 - Student Association Spiritual Life Committee

1994 - Youth Corps President

#### **Special Projects**

2010 - Director of Harding University Branch of the Center for Advanced Public Safety (2010-2014)

**Last updated by member on 11-Jan-16 (04:46 PM)**