

VITA
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DANA A. STEIL

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INTERESTS

- Teaching undergraduate computer science courses.
- Institutional Research & Effectiveness.
- Software analysis and development.
- Process analysis and design.
- Effective Academic Administration and Faculty Development.
- Geographic Information Systems.

EDUCATION

Ph.D. Computer Science, The University of Alabama, Tuscaloosa AL, 2010.
M.S. Computer Science, The University of Alabama, Tuscaloosa AL, 2008.
M.S.E. Education/Math, Harding University, Searcy AR, 2004.
B.S. Computer Science, Harding University, Searcy, AR, 1997.

EMPLOYMENT

(Aug. 2000 to Present) Associate Provost of Academic Affairs, Associate Professor of Computer Science, and Director of Instructional Research Harding University, Searcy AR
(May 2007 to Aug. 2010) Graduate Research Assistant & PhD candidate, The University of Alabama, Tuscaloosa AL. (While on leave from Harding University)
(2005-2006 Summers) Contract Software Developer, ABC Financial, Little Rock AR
(2001-2002 Summers) Contract Software Developer, Wilson-Bennett, Searcy AR
(1997-2000) Software Developer/ Technical Lead, Alltel Information Services, Little Rock, AR
(1995-1997) Student Programmer, Harding University, Searcy AR

PUBLICATIONS

- Ding, L., Steil, D., Dixon, B., Kraft, N., Brown, D., Parrish, A., "FIRST: A Framework to Integrate Relationship Search Tools," *International Journal of Computers and Applications*, to appear, 2013.
- Li, R.; Spiller, S.; Keskin, B.; Steil, D.A.; "Analysis of an Integrated Maximum Covering and Patrol Routing Problem," *Transportation Research Part E, Logistics and Transportation Review*, v.48, no.1, 2012 Jan, p.215(18) (ISSN: 1366-5545)
- Ding, L.;Steil, D.A.; Dixon, B.;Parrish, A.;Brown, D.;; "A Relation Context Oriented Approach to Identify Strong Ties in Social Networks," *Knowledge-Based Systems*, Available

online 19 May 2011, ISSN 0950-7051, DOI: 10.1016/j.knosys.2011.05.006.
<http://www.sciencedirect.com/science/article/pii/S0950705111001006>

- Steil, D. A.; Pate, J. R.; Kraft, N. A.; Smith, R. K.; Dixon, B.; Ding, L.; Parrish, A.; , "Patrol Routing Expression, Execution, Evaluation, and Engagement," IEEE Transactions on Intelligent Transportation Systems, vol. no. 99, pp.1-15, August 2010
- Ding, L; Steil, D.; Hudnall, M.; Dixon, B.; Smith, R.; Brown, D.; Parrish, A. "PerpSearch: An Integrated Crime Detection System", IEEE Intelligence and Security Informatics 2009, Dallas, TX, Jun. 2010
- Steil, D.; Parrish, A. "HIT: A GIS-Based Hotspot Identification Taxonomy," International Journal of Computers and Their Applications Vol. 15 No. 2, June 2009
- Steil, D.; Hong, X.; Ding, L. "A Mobility Camouflaging Evaluation Tool," ACMSE, Clemson SC, March 2009
- Steil, D.; Hong, X. "A Milepost Network Protocol for Vehicle Tracking and Trooper Deployment," International Conference on Wireless Networks, Las Vegas NV, July 2008
- Steil, D. Parrish, A. "Architecture for Patrol Routing Simulations," ESRI International UC, San Diego CA, August 2010
- Steil, D. "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. "Toward a Trooper Advisory System Using Crash and Citation Data," ESRI SERUG, Jacksonville FL, April 2008
- Steil, D. "Reducing Traffic Fatalities Using GIS Data as a Deployment Guide", ESRI International UC, San Diego CA, August 2008

RESEARCH & DEVEOMPMENT GRANTS

2013 -2014 (total ~ \$243K)

Alabama Department of Economic Dev. and Community Affairs, Traffic Safety Grant
Alabama Criminal Justice Information Center, Virtual Alabama Grant
Arkansas State Police, Electronic Citation Grant
Mississippi Department of Public Safety, Electronic Citation Grant

2012-2013 (total ~ \$201K)

Alabama Department of Economic Dev. and Community Affairs, Traffic Safety Grant
Alabama Criminal Justice Information Center, Virtual Alabama Grant
Arkansas State Police, Electronic Citation Grant
Mississippi Department of Public Safety, Electronic Citation Grant

2011-2012 (total ~ \$209K)

Alabama Department of Economic Dev. and Community Affairs, Traffic Safety Grant
Alabama Criminal Justice Information Center, Virtual Alabama Grant
Arkansas State Police, Electronic Citation Grant
Mississippi Department of Public Safety, Electronic Citation Grant

2010-2011 (total ~ \$280K)

Alabama Department of Economic Dev. and Community Affairs, Traffic Safety Grant
Alabama Criminal Justice Information Center, Virtual Alabama Grant

Alabama Criminal Justice Information Center, FMCSA SADIP Grant
Mississippi Department of Public Safety, Electronic Citation Grant

These grants concentrate on traffic safety, officer safety, and data quality issues for law enforcement and criminal justice agencies. The grants fund 8 student programmers, 1 full time programmer and 1 director.

POSTER PRESENTATIONS / PRESENTATIONS/ ARTICLES

- International Conference on Urban Traffic Safety, Integration of Collision and Violation Data for Optimal Spatio-Temporal Deployment of Traffic Enforcement, May 2014, Invited Speaker
- GIS for Transportation, Multi-Factor Optimization of Police Presence Using An Automated GIS Tool, May 2013
- AR District Court Clerks Annual Meeting, eCite in AR, April 2013
- Traffic Records Forum, Information Sharing and Sustainability Among States, October 2012
- Invited Article, Spatial Roundtable, Safer Roads Through Effective Traffic Safety Management, February 2011
- (SAVIR) Society of Advancement of Violence and Injury Research, March 2009
- Transportation Research Forum, March 2009
- Traffic Records Forum, June 2009
- UA GSA Conference, March 2008
- GIS Symposium at Troy, October 2007
- UA CS Research Colloquium Series, October 2007

HONORS AND AWARDS

- Harding University Teacher Achievement Award, 2016-2017 School Year
- Harding University Teacher Achievement Award, 2011-2012 School Year
- Upsilon Pi Epsilon, National Honor Society for Computer Science, Inducted 2008
- UA Graduate Student of the Month, March 2008
- GSA Conference Second Place Presentation Award: "Toward a Trooper Advisory System Using Crash and Citation Data", March 8, 2008
- UA Graduate Council Fellowship, 2007-2008
- Harding University Computer Science Honor Graduate 1997
- Kenneth Rose Memorial Scholarship, 1996-1997
- Timothy Yates Memorial Scholarship, 1996-1997

TEACHING EXPERIENCE

- Programming 1 & 2
- Data Structures

- Software Engineering
- Operating Systems
- Object Oriented Programming
- Senior Seminar
- Senior Capstone Project Course
- Distributed Programming / Parallel Programming
- Selected Topics “XNA Programming”
- HNRS 205, Human Situation III

OTHER ACTIVITIES

Serve as an academic advisor.

Active member at Downtown church of Christ, Searcy AR.

Served as an XEA Social Club sponsor (2004-2007).

Served as the Computer Science Club sponsor (2000-2004).

Foster Parents (2011 to present).