

## David S. Lamb

Web : <http://davidlamb.myweb.usf.edu/> | [https://www.researchgate.net/profile/David\\_Lamb6](https://www.researchgate.net/profile/David_Lamb6)

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### **I – Education**

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|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2012 – 2017 | Ph.D. School of Geosciences, University of South Florida<br>Dissertation: <i>Identifying nodes of transmission in disease diffusion through social media</i> |
| 2007        | Post Graduate Certificate in GIS<br>Manchester Metropolitan University (Distance Learning, UNIGIS)                                                           |
| 2004        | B.A. Geography, Emphasis GIS<br>University of Northern Colorado                                                                                              |
| 2009        | Certificate IV Training and Assessment, Charles Darwin University                                                                                            |

### **II – Professional Appointments**

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|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2019 – Present               | Instructor, Educational Measurement and Research, Department of Educational and Psychological Studies, College of Education, University of South Florida, Tampa, Florida |
| 2018 - 2019                  | Postdoctoral Research Scholar, Center for Urban Transportation Research, University of South Florida, Tampa, Florida                                                     |
| 2017 – 2018                  | Adjunct Instructor, School of Geosciences, University of South Florida, Tampa, Florida                                                                                   |
| 2012 - 2017                  | Teaching Assistant, School of Geosciences, University of South Florida, Tampa, Florida                                                                                   |
| 2015 – 2016                  | Research Assistant, Water Institute and Patel College for Global Sustainability, University of South Florida, Tampa, Florida                                             |
| 2012 – 2017                  | Research Assistant, Center for Urban Transportation Research, University of South Florida, Tampa, Florida                                                                |
| 2008 - 2010                  | Research Associate, The Northern Institute (formerly School for Social and Policy Research), Charles Darwin University, Darwin, Australia                                |
| 2010 – 2012 &<br>2005 - 2007 | Senior GIS Analyst, Anderson Consulting Engineers, Inc., Fort Collins, Colorado                                                                                          |
| 2002 - 2005                  | CAD / GIS Specialist, Telesto Solutions, Inc., Fort Collins, Colorado                                                                                                    |

### **III – Research**

#### **A. Interests**

My research interests are influenced by my background in GIScience, and influenced by Time Geography and spatio-temporal analysis. I study topics in medical geography and transport geography, particularly disease diffusion, and traffic accidents. I rely on quantitative methods from statistics or machine learning; and geovisualization to study these social and health problems.

## **B. Grants and Awards**

### **External Grants**

Martin Young (Principal Investigator), Bruce Doran, David S Lamb, and David Marshall (Co-Investigators). Gambling Harm in Northern Australia. Australian Research Council. Award amount: 150,000 AUD. Effective 2009-2011.

Martin Young (Principal Investigator), Bruce Doran, and David S Lamb (Co-Investigators). Gambling Harm in Northern Australia. Northern Territory Innovations Fund. Award amount: 22,500 AUD. Effective 2009.

### **Internal Grants**

David Lamb. Dissertation Completion Fellowship. University of South Florida Graduate School. Award amount: 5,000 USD.

David Lamb. Conference Presentation Grant, University of South Florida, 2017. Award amount: 500 USD

David Lamb. Identifying Nodes of Transmission using Social Media. Tharp Fellowship, School of Geosciences, University of South Florida 2015. Award amount: 2,000 USD.

Tess Lea, Martin Young, Dean Carson, and David Lamb. Spatial Social Scientist Infrastructure Position. Charles Darwin University Research Panel 2009 Infrastructure Grant. Award amount: 100,000 AUD.

Tess Lea, Martin Young, Dean Carson, and David Lamb. Spatial Social Scientist Infrastructure Position. Charles Darwin University Research Panel 2008 Infrastructure Grant. Award amount: 100,000 AUD.

### **Awards**

2<sup>nd</sup> Finalist, 2014, GIS Specialty Group Student Paper Competition, Annual Meeting of the Association of American Geographers, Tampa Florida (\$750).

Departmental Scholar 2004, Geography Department, University of Northern Colorado.

## **C. Refereed Journal Articles**

**Lamb, D.S.**, C. Lee. Forthcoming. Measuring Changes in the Spatiotemporal Patterns of Motorcycle Fatalities in the U.S. Transportation Research Record.

Hu, Y., Zhang, Y., **Lamb, D.**, Zhang, M., & Jia, P. 2019. Examining and optimizing the BCycle bike-sharing system—A pilot study in Colorado, US. Applied energy, 247, 1-12.

Loraamm, R. W., Downs, J. A., & **Lamb, D.** (2019). A time-geographic approach to quantifying wildlife—road interactions. Transactions in GIS, 23(1), 70-86.

Tsegaye, S., Singleton, T. L., Koeser, A. K., **Lamb, D. S.**, Landry, S. M., Lu, S., ... & Ghebremichael, K. (2019). Transitioning from gray to green (G2G)—A green infrastructure planning tool for the urban forest. Urban Forestry & Urban Greening, 40, 323-334.

Downs, J., M. Horner, **D. Lamb**, R. W. Loraamm, J. Anderson, and B. Wood. 2018. Testing Time-Geographic Density Estimation for Home Range Analysis using an Agent-Based Model of

- Animal Movement. *International Journal of Geographical Information Science*: 1-18.  
doi:10.1080/13658816.2017.1421764
- Lamb, D. S.** 2017. An automated displaced proportional circle map using Delaunay triangulation and an algorithm for node overlap removal. *Cartographica: The International Journal for Geographic Information and Geovisualization*, 52(4), 364-370
- Lamb, D. S.**, J. A. Downs, and C. Lee. 2015. Examining the effects of network structure on the network K-function. *Transactions in GIS*. DOI: 10.1111/tgis.12157
- Downs, J. A., **D. Lamb**, G. Hyzer, R. Loraamm, Z. J. Smith, and B. M. O’Neal. 2014. Quantifying spatio-temporal interactions of animals using probabilistic space–time prisms. *Applied Geography* 55:1–8.
- Downs, J. A., M. W. Horner, G. Hyzer, **D. Lamb**, and R. Loraamm. 2014. Voxel-based probabilistic space-time prisms for analysing animal movements and habitat use. *International Journal of Geographical Information Science* 28 (5):875–890.
- Lamb, D.**, and M. Young. 2011. “Pushing buttons”: an evaluation of the effect of Aboriginal income management on commercial gambling expenditure. *Australian Journal of Social Issues*: 119–140.
- Young, M., **D. Lamb**, and B. Doran. 2011. Gambling, Resource Distribution, and Racial Economy: An Examination of Poker Machine Expenditure in Three Remote Australian Towns. *Geographical Research* 49 (1):59–71.
- Lamb, D. S.**, W. K. Saalfeld, M. J. McGregor, G. P. Edwards, B. Zeng, and P. Vaarzon-Morel. 2010. A GIS-based decision-making structure for managing the impacts of feral camels in Australia. *The Rangeland Journal* 32 (1):129–143.
- Young, M., **D. Lamb**, and B. Doran. 2009. Mountains and Molehills: a spatiotemporal analysis of poker machine expenditure in the Northern Territory of Australia. *Australian Geographer* 40 (3):249–269

#### **D. Reports**

- Lamb, D. S.** 2018. A geodemographic profile of students for the Learning Gate Community School, Tampa, FL.
- Lamb, D. S.**, and W. K. Saalfeld. 2008. A multiple criteria decision support framework for the management of feral camels Report No. 53. Alice Springs: Desert Knowledge CRC.  
<http://nintione.com.au/publication/dkcrc-0478>.
- Saalfeld, W. K., G. P. Edwards, B. Zeng, and **D. S. Lamb**. 2008. A multiple criteria decision support tool for feral camel management. In *Cross-jurisdictional management of feral camels to protect NRM and cultural values Report No. 47, DKCRC Reports.*, eds. G. P. Edwards, M. J. McGregor, B. Zeng, P. Vaarzon-Morel, and W. K. Saalfeld. Alice Springs: Desert Knowledge CRC.
- Young, M., W. Tyler, **D. Lamb**, and M. Stevens. 2008. Expenditure on electronic gaming machines in the Northern Territory: a venues-based analysis. Report prepared for the Community Benefit Fund and the Northern Territory Government, by the School for Social and Policy Research, Charles Darwin University. <http://www.dob.nt.gov.au/gambling-licensing/gambling/gambling-research/Documents/expenditure-electronic-gaming-machines.pdf>.

### **E. Map Credits**

Young, M., B. Doran, and F. Markham. 2013. Gambling Spaces and the Racial Dialectics of Social Inclusion: A Case Study of a Remote Australian Casino. *Geographical Research* 51 (2):192–203.

### **F. Other Papers Presented at Professional Meetings**

**Lamb, D. S.** April 2018. Random Forests for Spatial Interpolation. To Be Presented at the Meeting of the Association of American Geographers, New Orleans, LA.

**Lamb, D. S.** 2017. Spatiotemporal Clustering of Motorcycle Crashes on a Network Using Agglomerative Hierarchical Clustering. Meeting of the Association of American Geographers, Boston, MA.

**Lamb, D. S.** 2014. Examining the effects of network structure on the network K-function. Meeting of the Association of American Geographers, Tampa, FL.

**Lamb, D. S.,** M. Young, and B. Doran. 2009. Gambling “Outback”: Spatiotemporal Patterns of EGM Expenditure in three Remote Northern Australian Towns. Meeting of the Association of American Geographers, Las Vegas, NV.

**Lamb, D. S.,** 2008. A GIS-Based Decision Support tool for the management of feral camels. Camel Science Conference, Canberra, Australia.

**Lamb, D. S.,** and J. R. Wolgemuth. 2007. People, Places, and Public School Choices: A GIS Analysis of Intra-District School Choice. American Education Research Association Annual Conference, Chicago, IL.

**Lamb, D. S.,** and J. R. Wolgemuth. 2007. Using GIS to Analyze Intra-District School Choice. GIS in the Rockies, Denver, CO.

Wolgemuth, J. R., and **D. S. Lamb.** 2006. Ethnic, Economic, and Academic Segregation Across Ten Years of District School Choice. American Education Research Association Annual Conference, San Francisco, CA.

### **G. Non-refereed Publications**

**Lamb, D. S.** 2006. Handling Flood Panel Creation with Style. ArcUser Magazine. <http://www.esri.com/news/arcuser/1006/dfirm.html>.

## **IV – Teaching**

### **A. Courses Taught University of South Florida**

Computer Cartography (undergraduate) – Average Rating 4.8 on 5 point scale.

Research Methods in Geography (undergraduate) - Average Rating 4.8 on 5 point scale.

Intermediate Geographic Information Systems (graduate/online)

Statistics for Education Research I (graduate)

Statistics for Education Research II (graduate)

## **B. Guest Lecturer**

Map Projections, presented to students in GIS for Transportation (graduate) University of South Florida

## **V – Service**

### **A. Service to Discipline**

Co-Webmaster for Health and Medical Geography Specialty Group, Association of American Geographers (ongoing)

Graduate Student Board Member Health and Medical Geography Specialty Group, Association of American Geographers (2014-2016).

Reviewer for Refereed Journals: International Journal of Geographic Information Science, Applied Geography.

Reviewer for Funding Agencies: Australian Research Council (2009-2010).

### **C. Professional Memberships**

Association of American Geographers (AAG)

## **VI – Technical Competencies**

### **A. Software**

ArcGIS Desktop 9.2 – 10.6 (including spatial analyst, 3D analyst, and network analyst), Microsoft Office, SAS 9.x, R 3.x, Adobe Photoshop, and Adobe Illustrator, Inkscape

### **B. Programming**

Python 2.7, Javascript, VB.Net, VBA