

**Victor Mesev**, Professor of Geography  
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### Research

Urban remote sensing, integration of GIS/remote sensing, image spectral/spatial/temporal classification, disaggregate cartographic representations, urban morphological modeling, population geography, conflict mapping, and geography of sport.

### Appointments

|              |  |
|--------------|--|
| 2008–present | Professor of Geography, Florida State University, USA.                               |
| 2004–2008    | Associate Professor of Geography, Florida State University, USA.                     |
| 2001–2004    | Lecturer B (Tenured) in Geography, University of Ulster, Coleraine, UK.              |
| 1999–2001    | Lecturer A in Geography, University of Ulster, Coleraine, UK.                        |
| 1998–1999    | Research Associate, Natural Environment Research Council, University of Bristol, UK. |
| 1995–1998    | Research Fellow, Economic & Social Research Council, University of Bristol, UK.      |
| 1994–1995    | Lecturer A in Geography, University of Bristol, UK.                                  |

### Education

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|-----------|---|
| 1991–1995 | Ph.D. Geography, University of Bristol, United Kingdom.                                 |
| 1989–1991 | M.A. Geography, The Ohio State University, Columbus, OH, United States.                 |
| 1986–1989 | B.A. Geography (1 <sup>st</sup> Class Honors), University of Leicester, United Kingdom. |

### Teaching

Graduate: Advanced Geographic Information Science; Advanced Remote Sensing; Introductory Geographic Information Systems; Introductory Remote Sensing; GIS Design & Implementation.

Undergraduate: Map Analysis; Urban Analysis; Sports Geography; Sport: Place, Competition & Fairness; Physical Geography; Geography Britain & Ireland; Great Britain: Geography of Imperialism, Industry & Culture; The Mediterranean; World Regional Geography; Geography of Food and Environment; Geography of Wine.

### Committees, Directorships, Responsibilities

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|--------------|--|
| 2021–2022    | Advisory Committee, International Affairs.   |
| 2018         | QER Sub-Committee on Department of History.  |
| 2017–present | Common Program Prerequisite Faculty Committee for Environment & Society/Geography. |
| 2017–2023    | Discipline Coordinator, Statewide Course Numbering System for Geography.           |
| 2017         | QER Sub-Committee on Department of Art.  |
| 2017         | Committee, Fulbright-Hays Program to UK, Institute of International Education.     |
| 2016–present | Committee, Board of Governors Disciplinary.  |
| 2016–2019    | Committee Head, College Policy & Academic Affairs (PAAC).                          |
| 2016–2019    | Graduate Policy Committee (& 2008-2009).   |
| 2016–2018    | Faculty Senate Committee (& 2007–2008, 2012–2013).                                 |
| 2015–2021    | Director, Geography & Environment and Society Undergraduate Programs.              |
| 2015–2019    | Postdoctoral Liaison Officer for Geography.  |
| 2015–2019    | Director, Geography Graduate Program.  |
| 2016–2019    | Committee, College Promotion & Tenure (& 2006–2007, 2011–2012, 2014–2015, 2021).   |
| 2015–2017    | Director, Geography Internship Program.  |
| 2012–2013    | Committee, University Promotion & Tenure (2024 – 2026).                            |

2006–2015 Chair, Department of Geography.  
2006–2015 Committee, College of Social Sciences & Public Policy Administrative.

### Publications (total=74)

#### Books (2)

1. **Mesev V.** 2007. *Integration of GIS and Remote Sensing* (Edited) Chichester: Wiley.
2. **Mesev V.** 2003. *Remotely Sensed Cities* (Edited) London: CRC Press.

#### Peer reviewed journal articles, book chapters, and encyclopedic entries (69)

3. Downs J. Downs J. **Mesev V.** Chakraborty S. Climate-induced expansion of Lyme disease in East Central Ohio. *International Journal of Environmental Health*. In review.
4. Gao X. **Mesev V.** Li Z. Downs J. SAPC: A new overland flow accumulation algorithm with enhanced adaptability to terrain surface variations. *Transactions in GIS*. In review.
5. Soe W. Myint. **Mesev V.** Dale Quantrochi Elizabeth A. Wentz. 2025. Urban image classification Per-Pixel Classifiers, sub-pixel analysis, object-based image analysis, geospatial methods, and machine learning approach. In Prasad Thenkabail. *Remote Sensing Handbook* Chapter 3 in press.
6. **Mesev V.** 2022. Measurement and modeling of urban density and growth. *New Developments in Remote Sensing for the Environment*. Remote Sensing (Special Issue).
7. Strode G. and **Mesev V.** 2021. Bivariate representation of population density using public and private drinking and wastewater infrastructure. *International Cartographic Association* <https://doi.org/10.5194/ica-proc-4>.
8. Strode G. **Mesev V.** Bleisch S. Ziewitz K. Reed F. Morgan J.D. 2020. Exploratory bivariate and multivariate geovisualizations of social vulnerability index. *Cartographic Perspectives*, **95**. DOI: 10.14714/CP95.1569.
9. Strode G. Morgan J.D. Thornton B. **Mesev V.** Rau E. Shortes S. Johnson N. 2020. Operationalizing Trumbo's principles of bivariate choropleth map design. *Cartographic Perspectives*, **94**. DOI: 10.14714/CP94.1538.
10. Rahman S. **Mesev V.** 2019. Change vector analysis, tasseled cap, and NDVI-NDMI for measuring land use/cover changes caused by a sudden short-term severe drought: 2011 Texas event. *Remote Sensing*, **11**(19), 2217. DOI: 10.3390/rs11192217.
11. **Mesev V.** 2019. Special issue editorial: Remote sensing for urban morphology. *Remote Sensing*, **11**(24), 2986. DOI: 10.3390/rs11242986.
12. **Strode G.** Mesev V. Thornton B. Jerez M. Tricarico T. McAlear T. 2019. Geovisualization of Florida land use bivariate mapping, statistical legends, and visual analytics. *Florida Geographer*, **51**(1), 1–16.
13. **Mesev V.** 2019. Special issue editorial: Remote sensing for urban morphology. *Remote Sensing*. 5pp. (in press).
14. Strode G. **Mesev V.** Maantay J. 2018. Improving dasymetric population estimates for land parcels: Data pre-processing steps. *Southeastern Geographer* **58**(3) 300–316. DOI: 1353/sgo.2018.0030.
15. Xie Y. Sha Z. **Mesev V.** 2018. Special issue editorial: Remote sensing of sustainable ecosystems. *Journal of Sensors*. 2pp. DOI: 10.1155/2018/9683415.
16. **Mesev V.** 2017. Spatial filtering. In Doug Richardson (Ed-in-Chief) *International Encyclopedia of Geography: People, the Earth, Environment & Technology* (Online Update) Wiley-Blackwell.
17. Fricker T. Elsner J.B. **Mesev V.** Jagger T.H. 2017. A dasymetric method to spatially apportion tornado casualty counts. *Geomatics, Natural Hazards and Risk* **8**(2) 1768–1782.
18. Elsner J.B. Fricker T. Jagger T.H. **Mesev V.** 2016. Statistical models for predicting tornado rates: Case studies from Oklahoma and the Mid South USA. *International Journal of Safety and Security Engineering* **6**(1) 1–9.
19. **Mesev V.** 2016. Spatial filtering. In D. Richardson (Editor-in-chief) *International Encyclopedia of Geography: People, the Earth, Environment, and Technology*, Wiley-Blackwell.

20. Strode G. Thornton B. **Mesev V.** Johnson N. 2016. Bivariate statistical legends: Mapping examples on Florida covariance data using scatterplots from open source visual analytic tools. *The Florida Geographer* **47**, 1–17.
21. Myint S.W. **Mesev V.** Quattrochi D. Wentz E.A. 2015. Urban image classification: per-pixel classifiers, sub-pixel analysis, object-based image analysis, and geospatial methods. In P.S. Thenkabail (Ed) *Remotely Sensed Data Characterization, Classification, and Accuracies*. Boca Raton: CRC Press, 219–230.
22. Kang M.J. **Mesev V.** Myint S.W. 2015. Measurements of impervious surfaces: Per-pixel, sub-pixel, and object-oriented classification. *Korean Journal of Remote Sensing* **31**, 303–319.
23. Sim S. **Mesev V.** 2014. Measuring and modeling of urban growth and its impacts on vegetation and species habitats in Greater Orlando, Florida. *International Journal of Geospatial and Environmental Research* **1**, 1–16.
24. Kang M.J. **Mesev V.** Myint S.W. 2014. Urbanization and quality of stormwater runoff: Remote sensing measurements of land cover in an arid city. *Korean Journal of Remote Sensing* **30**, 399–415.
25. Finlayson C.C. **Mesev V.** 2014. Emotional encounters in sacred spaces: The case of the Church of Jesus Christ of Latter-day Saints. *The Professional Geographer* **66**, 436–442.
26. Wentz E.A. Anderson S. Fragkias M. Netzband M. **Mesev V.** Myint S.W. Quattrochi D. Rahman A. Seto K.C. 2014. Supporting global environmental change research: a review of trends and knowledge gaps in urban remote sensing. *Remote Sensing* **6**, 3879–3905.
27. **Mesev V.** 2014. Definition of GIS and nine other related terms. In J Matthews (coordinating editor) *Encyclopaedic Dictionary of Environmental Change*, 2<sup>nd</sup> Edition. London: Sage.
28. Scheitlin K.N. **Mesev V.** Elsner J.B. 2013. Polyline averaging using distance surfaces: A spatial hurricane climatology. *Computers & Geosciences* **52**, 126–131.
29. **Mesev V.** Shirlow P. Downs J.A. 2013. The geography of conflict and death in Belfast, Northern Ireland. In A Kobayashi (Ed) *Geographies of Peace and Armed Conflict*, Routledge **76–86**.
30. **Mesev V.** 2012. Multiscale and multitemporal urban remote sensing. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences* Volume XXXIX-B2, 17–21.
31. Myint S.W. **Mesev V.** 2012. A comparative analysis of spatial indices and wavelet-based classification. *Remote Sensing Letters* **3**, 141–150.
32. **Mesev V.** 2011. Exploring the temporal lag between the structure and function of urban areas. In X. Yang (Ed) *Urban Remote Sensing: Monitoring, Synthesis and Modeling in the Urban Environment*, Chichester, UK: Wiley-Blackwell, 155–162.
33. **Mesev V.** 2010. Image interpretation. In B. Warf (Ed) *Encyclopedia of Geography*. SAGE Publications. <[http://www.sage-ereference.com/geography/Article\\_n612.html](http://www.sage-ereference.com/geography/Article_n612.html)>
34. **Mesev V.** 2010. Classification of urban areas: inferring land use from the interpretation of land cover. In T Rashed and C Jurgens (Eds) *Remote Sensing of Urban and Suburban Areas*, Berlin: Springer, 141–164.
35. **Mesev V.** Shirlow, P. Downs, J.A. 2009. The geography of conflict and death in Belfast, Northern Ireland. *Annals of the Association of American Geographers* **99**: 5 (Special Issue on *Geographies of Peace and Armed Conflict*) 893–903.
36. **Mesev V.** McKenzie P.J. 2008. Urban neighborhood pattern recognition using high spatial resolution remotely sensed data and point-based GIS data sources. In S, Wise and M, Craglia (Eds) *GIS and Evidence-based Policy Making*, London: CRC, 19–42.
37. **Mesev V.** Courtney R.S. Downs, J.A. Shirlow, P. Binns, A. 2008. GIS lessons from the Belfast ‘troubles’. In D. Sui (Ed) *Geospatial Technologies and Homeland Security: Research Frontiers and Future Challenges*. Springer: Berlin, 83–102.
38. **Mesev, V.** 2007. Fusion of point-based urban data with IKONOS imagery for locating urban neighborhood features and patterns. *Information Fusion* **8**, 157–167.

39. **Mesev V.** Walrath A. 2007. GIS and remote sensing integration: In search of a definition. In V. Mesev (Ed) *Integration of GIS and Remote Sensing*, Chichester: Wiley, 1–16.
40. Shine T. **Mesev V.** 2007. Remote sensing and GIS for ephemeral wetland monitoring and sustainability in southern Mauritania. In V. Mesev (Ed) *Integration of GIS and Remote Sensing*, Chichester: Wiley, 269–290.
41. Myint S.W. **Mesev V.** Lam N. 2006. Urban textural analysis from remote sensor data: Lacunarity measurements based on the differential box counting method. *Geographical Analysis* **38**, 371–390.
42. **Mesev V.** Lam N. 2006. Change detection through spatial/ textural/ numerical analysis. In M. Ridd J. Hipple (Eds) *The Manual of Remote Sensing* third Edition: Volume 5: *Remote Sensing of Human Settlements*, Bethesda: ASPRS, 550–564.
43. Bjorgo E. Camp L.E. Card D.H. Chung J.M. Dudley-Murphy E.A. Gillies R.R. Hipple J.D. Hernandez M.W. Hofmann P. Jürgen C. Lam N. Massasati A.S. Merola J.A. **Mesev V.** Quattrochi D.A. Wheeler D.J. (alphabetical order) 2006. Change detection through spatial/ textural/numerical analysis. In M.K. Ridd and J.D. Hipple (Eds) *The Manual of Remote Sensing* third Edition: Volume 5: *Remote Sensing of Human Settlements*, Bethesda: ASPRS.
44. **Mesev V.** 2005. Identification and characterization of urban building patterns using IKONOS imagery and point-based postal data. *Computers, Environment & Urban Systems* **29**, 541–557.
45. **Mesev V.** 2005. Urban land use reconstruction: image pattern recognition from address point information. *The ISPRS International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences* **34-7**.
46. **Mesev V.** 2004. Neighborhood pattern recognition from mailing information: Links with satellite imagery. *Journal of Space Communication (Remote Sensing from Satellites)* issue **3** [<http://satjournal.tcom.ohiou.edu/pdf/Mesev.pdf>].
47. **Mesev V.** 2003. Urban land use uncertainty: Bayesian approaches to urban image classification. In V. Mesev (Ed) *Remotely Sensed Cities*, London: CRC Press, 207–222.
48. Longley P.A. **Mesev V.** 2002. Measurement of density gradients and space-filling in urban systems. *Papers in Regional Science* **81**, 1–28.
49. **Mesev V.** 2002. Definitions of GIS and other related terms. In J. Matthews (coordinating editor) *The Encyclopedic Dictionary of Environmental Change*, London: Arnold.
50. **Mesev V.** 2001. Bayesian modifications to maximum-likelihood classifications of urban characteristics. In A Nienartowicz and M Kunz (Eds) *GIS and Remote Sensing in Studies of Landscape Structure and Functioning*, Poland: Nicholas Copernicus Press, 51–75.
51. **Mesev V.** 2001. Modified maximum likelihood classifications of urban land use: spatial segmentation of prior probabilities. *Geocarto International* **16**, 39–47.
52. **Mesev V.** Longley P.A. 2001. Measuring the ‘urban’ measuring and modeling a regional settlement hierarchy. In N. Tate P. Atkinson (Eds) *Modeling Scale in Geographical Information Science*, Chichester: Wiley, 53–67.
53. **Mesev V.** Gorte B. Longley P.A. 2001. Modified maximum-likelihood classification algorithms and their application to urban remote sensing. In J.P. Donnay, M. Barnsley and P. Longley (Eds) *Remote Sensing and Urban Analysis*, London: Taylor & Francis, 71–94.
54. Longley P.A. **Mesev V.** 2001. Measuring urban morphology using remotely sensed imagery. In J.P. Donnay M. Barnsley P. Longley (Eds) *Remote Sensing and Urban Analysis*, London: Taylor & Francis, 163–183.
55. Longley P.A. **Mesev V.** 2000. On the measurement and generalization of urban morphology. *Environment and Planning A* **32**, 473–488.
56. **Mesev V.** 1999. Integration issues in GIS and remote sensing. *Computers, Environment & Urban Systems* **23**, 1–3.

57. **Mesev V.** Longley P.A. 1999. Urban analysis from remote sensing and GIS. In P. Atkinson N. Tate (Eds) *Advances in Remote Sensing and GIS Analysis*, Chichester: Wiley, 185–206.
58. **Mesev V.** 1999. From measurement to analysis: a GIS/RS approach to urban density changes. In M. Craglia H. Onsrud (Eds) *Geographic Information Research: Transatlantic Perspectives*, London: Taylor & Francis, 303–317.
59. **Mesev V.** 1998. The use of census data for urban image classification. *Photogrammetric Engineering and Remote Sensing* **64**, 431–438.
60. **Mesev V.** Longley P.A. 1998. Remote sensing and regional density gradients. In S Carver (Ed) *Innovations in GIS 5*, London: Taylor & Francis, 226–237.
61. **Mesev V.** 1997. Remote sensing of urban systems: hierarchical integration with GIS. *Computers, Environment & Urban Systems* **21**, 175–187.
62. Longley P.A. and **Mesev V.** 1997. Beyond analogue models: space filling and density measurements of an urban settlement. *Papers in Regional Science* **76**, 409–427.
63. Longley P.A. **Mesev V.** 1997. The use of diverse RS-GIS sources to measure and model urban morphology. *Geographical Systems* **4**, 5–18.
64. **Mesev V.** Batty J.M. Longley P.A. 1996. RS/GIS and the morphology of urban settlements. In P.A. Longley M. Batty (Eds) *Spatial Analysis: Modelling in a GIS Environment*, Cambridge: GeoInformation International, 123–148.
65. **Mesev V.** 1996. Measurement and modelling of urban remotely-sensed data. *International Archives of Photogrammetry and Remote Sensing*, Vienna, Austria, Vol. XXXV.
66. **Mesev, V.** Longley P.A. Batty J.M. Xie Y. 1995. Fractal measurements of a classified image: the case study of Bristol, England. In M. Fischer T. Sikos L. Bassa (Eds) *Recent Developments in Spatial Information, Modelling and Processing*, Budapest: Geomarket, 107–122.
67. **Mesev V.** Longley P.A. Batty J.M. Xie Y. 1995. Morphology from imagery: detecting and measuring the density of urban land use. *Environment and Planning A* **27**, 759–780.
68. Maguire D.J. Hickin W. **Mesev V.** 1991. Waste disposal site selection using raster and vector GIS. *Mapping Awareness* **5**, 24–27.

#### Reports (3)

69. Shirlow P. **Mesev V.** Murtagh B. McMullan A.J. 2003. Measuring and visualizing labour market & community segregation in Belfast. *OFMDFM*, Belfast.
70. **Mesev V.** 1998. *Measurement and Analysis of Urban Morphology and Land Use Change*. End of Award Report on ESRC Research Fellowship No. H53627501295, 32 pp, ESRC and British Library Document Supply Centre.
71. Maguire D.J. **Mesev V.** 1991. A GIS for waste disposal site selection. Midlands Regional Research Laboratory Series, Working Report **7**, 21 pp.

Plus, 24 Book Reviews & Conference Reports.

#### Presentations (total=58)

1. Strode G. **Mesev V.** 2019. Expanding cadastral-based population methods to produce estimates for intercensal years. *AAG Annual Meeting*, Washington D.C. April.
2. Ye X. Wang S. **Mesev, V.** 2018. Symposium on new horizons in human dynamics research: Research agenda in smart cities and urban computing I and II. *AAG Annual Meeting*, New Orleans, LA. April.

3. Strode G. **Mesev, V.** 2018. High-resolution dasymetric population estimation using property tax records, census group quarters, and the US national grid. *Annual Meeting of the Association of American Geographers*, New Orleans, LA.
4. Elsner J.B. Ryan E. Strode G. **Mesev V.** 2017. Florida's annual expected property losses from tornadoes. *European Severe Storms Conference*, Pula, Croatia.
5. Strode G. **Mesev, V.** 2017. Geovisualization of land use/land cover using bivariate statistical legends and visual analytics. *International Cartographic Conference*, Washington D.C.
6. Strode G. **Mesev V.** 2016. The business of bivariate: Theory and tools for mapping two choropleths at once. *Applied Geography Conference*, Louisville, KY.
7. Thornton B. Strode G. **Mesev V.** Morgan, D. Rau E. Shortes S. Johnston N. Yang Y. 2016. Bivariate maps: An introduction and case study using land use/land cover with visual analytics. *Seven Hills Regional User Group for GIS*, Tallahassee, FL.
8. Elsner J.B. Fricker T. **Mesev V.** 2016. Statistical models for predicting tornado rates: Case studies from Oklahoma and the Mid South USA. *Risk Analysis*, Crete, Greece.
9. Strode G. Thornton B. **Mesev V.** Morgan J.D. Johnson N. Rau E. Yang X. 2016. Revisiting Trumbo's four principles for bivariate map color selection. *Florida Undergraduate Research Conference*, Tampa, FL.
10. Elsner J.B. Fricker T. Widen H.M. Jagger T.H. **Mesev V.** 2016. Predicting seasonal tornado activity. *American Meteorological Society Annual Meeting*, New Orleans, LA.
11. Strode G. **Mesev V.** 2016. A high-resolution population data model using census data, Florida cadastral data, and the US national grid. *Annual Meeting of the Association of American Geographers*, San Francisco, CA.
12. **Mesev V.** 2015. Challenges to global urban remote sensing: temporal-structural models. *International Geographical Union*, Moscow, Russian Federation.
13. Strode G. **Mesev V.** 2014. Dasymetric methods using cadastral and building footprint data. *Meeting of the Association of American Geographers*, Tampa, FL.
14. Strode G. **Mesev V.** 2013. Cadastral-based expert dasymetric system (CEDS) using census and parcel data. *International Cartographic Conference*, Dresden, Germany.
15. **Mesev V.** 2012. Mutiscale and multitemporal urban remote sensing. *Congress of the International Society for Photogrammetry and Remote Sensing*. Melbourne, Australia.
16. **Mesev V.** (Invited panel discussant) on Urban Remote Sensing at the 2012 *Annual Meeting of the Association of American Geographers*, New York, NY.
17. Sim S. **Mesev V.** 2011. Measuring urban sprawl and compactness: Case study Orlando, USA. *International Cartographic Conference*, Paris, France.
18. Scheitlin K.N., **Mesev V.** Elsner, J.B. 2011. Polyline averaging using distance surfaces: A spatial hurricane climatology. *Geocomputation*, London, UK. Member of the program committee.
19. **Mesev V.** 2010. Scale of analysis: Micro versus macro urban remote sensing. *International Cartographic Association Workshop on Advances in Sensors and Algorithms for Topographic and Thematic Mapping*, Orlando, FL.
20. **Mesev V.** 2010. Scale of analysis: Micro versus macro urban remote sensing. *GIScience*, Zürich, Switzerland.
21. **Mesev V.** 2009. Reconciling cartographic representations of urban structure and function from remote sensor models. *International Cartographic Conference*, Santiago, Chile.
22. **Mesev V.** 2009. Co-organizer, chair and discussant of two sessions on remote sensing and GIS for urban analysis. *Meeting of the Association of American Geographers*, Las Vegas, NV.
23. **Mesev V.** 2009. Exploring the temporal lag between urban structure and function. *Urban Remote Sensing Conference*, Shanghai, China.

24. **Mesev V.** 2008. Inferring multi-temporal links between structural and functional urban representations from remote sensor models. *GIScience*, Park City, UT.
25. **Mesev V.** 2008. Co-organizer, chair and discussant of three sessions on remote sensing and GIS for urban analysis. *Meeting of the Association of American Geographers*, Boston, MA.
26. **Mesev V.** 2007. Integrative spatial-spectral-temporal remote sensor models of urban configuration and sustainability. *Geocomputation*, Maynooth, Ireland.
27. **Mesev V.** 2007. Remote sensing and GIS analysis. *Meeting of the Association of American Geographers*, San Francisco, USA. Co-organizer of three sessions, and discussant.
28. Sims M. **Mesev V.** 2007. Utilization of ancillary data in object-based classification of high spatial resolution satellite imagery. *Urban Remote Sensing Conference*, Paris, France.
29. **Mesev V.** 2006. Mapping liberation/terrorist deaths in Belfast, Northern Ireland. Invited participation on Geospatial Technologies and Homeland Security, Texas A&M University, TX.
30. **Mesev V.** 2006. Towards spectral-spatial-temporal urban object identification. *Meeting of the Association of American Geographers*, Chicago, USA. Co-organizer of four sessions.
31. **Mesev V.** Gault, I. 2005. Urban morphological metrics: Pinpointing building configuration from imagery. *Meeting of the Association of American Geographers*, Denver, CO. Co-organizer.
32. **Mesev V.** 2004. Identification and characterization of urban neighborhood features: Fusion of IKONOS imagery and point-based property information. *Meeting of the Association of American Geographers*, Philadelphia, PA. Co-organizer of three sessions.
33. **Mesev V.** 2003. Neighbourhood reconstruction: Links between IKONOS imagery and precision geo-coded address information. *European Colloquium on Theoretical & Quantitative Geography*, Lucca, Italy.
34. **Mesev V.** 2003. Urban land use reconstruction: Image pattern recognition from address point information, *Remote Sensing of Urban Areas*, Regensburg, Germany.
35. **Mesev V.** 2003. Urban morphology reconstruction: linking satellite imagery with address information. *Meeting of the Association of American Geographers*, New Orleans, LA. Chair and discussant.
36. **Mesev V.** 2002. Bayesian image classification of urban spatial structures, *International Conference on Bayesian Statistics*, Tenerife, Spain.
37. **Mesev V.** 2001. Fear as the limiting factor in consumer and labour spatial interactions in Belfast, Northern Ireland. *European Colloquium on Theoretical & Quantitative Geography*, St. Valery-en-Caux, France. Chair.
38. **Mesev V.** 2000. Morphology from ADDRESS-POINTS. *Meeting of the Association of American Geographers*, Pittsburgh, PA.
39. **Mesev V.** 1999. GIS in local economic development: Examples from the Irish border and an English city, Invited speaker. *Fourth International Seminar on Geographic Information Systems in Local Government*, Seoul, Korea. Panelist.
40. **Mesev V.** 1998. Spatial analysis of urban remote sensing. *Meeting of the Association of American Geographers*, Boston, MA.
41. **Mesev V.** 1998. Fractal analysis of urban density gradients. *Geocomputation*, Bristol, UK.
42. **Mesev V.** 1998. Regional density gradients from spatial remote sensing. *ASPRS/RTI Annual Conference*, Tampa, FL.
43. **Mesev V.** Longley, P.A. 1997. Urban regional density gradients. *European Colloquium on Theoretical & Quantitative Geography*, Rostock, Germany.
44. Longley P.A. **Mesev V.** 1997. Remote sensing and regional density gradients. *GIS Research UK*, Leeds, UK.
45. **Mesev V.** 1997. Categorization of settlements. *Meeting of the Association of American Geographers*, Fort Worth, TX.
46. Longley P.A. **Mesev V.** 1996. Analogue models, space filling and urban density. *Congress of European Regional Science Association*, Zürich, Switzerland.

47. **Mesev V.** 1996. Modelling classified urban images: spatial and temporal comparisons of four settlements in the UK. *GIS Research UK*, Canterbury, UK.
48. **Mesev V.** 1996. From measurement to analysis: A GIS/RS approach to urban density changes. *2<sup>nd</sup> ESF-GISDATA & NSF-NCGIA Summer Institute Geographic Information*, Berlin, Germany.
49. Longley P.A. **Mesev V.** 1995. Fractal measurements of classified images, *European Colloquium on Theoretical and Quantitative Geography*, Spa, Belgium.
50. Longley P.A. **Mesev V.** 1995. The use of diverse RS-GIS sources to measure and model urban morphology, *GISDATA: Remote Sensing and Urban Analysis*, Strasbourg, France.
51. **Mesev V.** 1995. Monitoring the fractal dimensions of urban areas from classified imagery. *Meeting of the Association of American Geographers*, Chicago, IL.
52. Longley P.A. **Mesev V.** 1995. Fractal measurement of urban morphology using diverse datasets. *Congress of European Regional Science Association*, Odense, Denmark.
53. **Mesev V.** Longley, P.A. 1994. GIS/RS in urban modelling. *Conference on Spatial Modelling and GIS*, Bristol, UK.
54. **Mesev V.** 1994. The role of image classification in urban density models. *Meeting of the Association of American Geographers*, San Francisco, CA.
55. Longley P.A. **Mesev V.** 1994. The scale perspective and land use classification. *Conference on Geographic Information and Land Use Analysis*, Birkbeck, London, UK.
56. **Mesev V.** 1993. Adjustable *a priori* and *a posteriori* probabilities in urban image classification. Invitation from the *National Center for Geographic Information and Analysis (NCGIA)* SUNY, Buffalo, NY.
57. **Mesev, V.** 1993. Population prior probabilities in urban image classification. *Meeting of the Association of American Geographers*, Atlanta, GA.
58. **Mesev V.** Longley P.A. Batty J.M. 1993. Fractal measurements of a classified image: The case study of Bristol, England. *European Colloquium on Theoretical & Quantitative Geography*, Budapest, Hungary.

#### Grants and Awards (total=\$1,412,969)

1. **Mesev V.** 2017-2018. Agreement with Florida Greenways & Trails Foundation, PI \$9,971.
2. **Mesev V.** 2016-2018. Participating Agreement between US Forest Service and FSU, *USDA Forest Service*, PI \$38,232.
3. **Mesev V.** 2015. Faculty travel grant to attend the *International Geographical Union Regional Conference*, Moscow, Russian Federation. *FSU Office of the Provost*, PI \$1,500.
4. **Mesev V.** 2012–2014. Agreement between FSU Geography Department and FSU Center for Academic & Professional Development. Host the Seven Hills Regional User Group for GIS (SHRUG), Nov 9–10, *Florida State University* PI \$30,000.
5. **Mesev V.** 2012. Faculty travel grant to attend the Congress ISPRS in Melbourne, Australia. *FSU Office of the Provost*, PI \$1,500.
6. **Mesev V.** 2011-2016. Assist the Southeast Archeological Center Cultural Resources GIS Program, *US National Park Service*, PI \$61,838.
7. **Mesev V.** 2010. Tallahassee at super high resolution. *FSU Primary Source Materials & Collection Development Grants* PI \$3,678.
8. **Mesev V.** 2009-2014. Participating Agreement between US Forest Service and FSU, *USDA Forest Service*, PI \$48,550.
9. Rashed T., **Mesev V.** Yuan M. and Powell R. 2006-2007. Summer workshops, *Spatial Perspectives on Analysis for Curriculum Enhancement (SPACE)* *National Science Foundation* Co-PI \$35,000.
10. **Mesev V.** 2005. Urban mapping: Calibration of neighborhood metrics with remote sensing, *FSU Committee on Faculty Research Support (COFRS)* PI \$8,000.



11. Shirlow P. and **Mesev V.** 2005. Stone-throwing: A spatial and socio-economic profile of young offenders, *Police Service of Northern Ireland (PSNI) Co-PI \$4,000.*
12. **Mesev V.** 2004. Attendance at AAG, Philadelphia, *British Academy Overseas Conference Grant (OCG 849) PI \$1,000.*
13. Shirlow P. **Mesev V.** and Graham, B. 2000-2002. City at work: A long-term spatial planning version for restructuring deprived urban areas, *European Union (Interreg IIc) Co-PI \$900,000.*
14. Shirlow P. **Mesev V.** and Murtagh, B. 2000-2002. Spaces of fear: Measuring and modeling 'chill factors' in Belfast, *Office of First Minister & Deputy First Minister (Community Relations Unit) Co-PI \$80,000.*
15. Shirlow P. **Mesev V.** Steele, P. and Morrissey, M. 2001. Mapping health care in Belfast, *North & West Belfast Health & Social Services Trust (Northern Ireland) \$36,000.*
16. **Mesev V.** 1997. Attendance at AAG, Fort Worth, *British Academy Overseas Conference Grant (OCG 978) PI \$1,000.*
17. **Mesev V.** 1997. British Royal Geographical Society with Institute of British Geographers 1997, PI \$600.
18. **Mesev V.** 1996. Attendance at Berlin Workshop for Early Career Geographers, *ESF-GISDATA and NSF-NCGIA Summer Institute Fellowship PI \$1,200.*
19. **Mesev V.** 1996. British Royal Geographical Society with Institute of British Geographers, PI \$320.
20. **Mesev V.** 1995-1997. Measuring and modeling urban morphology, *British Leverhulme Trust Fellowship PI \$60,000. [Offer Declined]*
21. **Mesev V.** 1995-1998. Measurement and analysis of urban morphology and land use change, *British Economic & Social Research Council Fellowship (H53627501295) PI \$90,000.*
22. **Mesev V.** 1995. Student of the Year, *British Association for Geographical Information \$180.*
23. Maguire D.J. and **Mesev V.** 1989. A GIS for waste disposal site selection, *Wimpey Waste Management (MRRL Working Paper 7) Co-PI \$4,000.*

**Graduate Student Supervision (total=59)  
All Florida State University unless stated otherwise**

Main professor to completed doctoral students (12)

1. Parvathy Binoy 2022. *Remembering Rondo: Black counter-memory and collective practices of place-making in Saint Paul's historic black neighborhood.*
2. Filiberto Asare-Akuffo 2021, *Exploring spatial accessibility to oral health in the US.*
3. Georgianna Strode 2020. *Bivariate and multivariate geovisualization methods using color, gridded symbologies, and visual analytics.*
4. Xinyu Gao 2019. *A new overland flow accumulation algorithm with enhanced adaptability for terrain surface and its application in distributed hydrological modeling.*
5. Mark Sciuchetti 2019. *Sound and place: An affective geography of the Hudson River, NY.*
6. Shoumik Rahman 2017. *Land cover change using change vector analysis of Landsat 5 remote sensor data: Texas during the 2011 drought event.* (Data Analyst for BoA, Charlotte, GA)
7. Julie Mura 2016. *Geographical conflict in Bolivia: Mobilization of identity by the Comité pro Santa Cruz.*
8. MinJo Kang 2014. *Measuring urban imperviousness and modeling stormwater quality: Subtropical comparisons between an arid and a humid city.* (Assistant Professor in Geography, Korean Research Institute for Human Settlement, Seoul, Korea).
9. Caitie Finlayson 2012. *Spaces of faith: an affective geographical examination of houses of worship.* (Associate Professor in Geography, University of Mary Washington)
10. Brad Huff. 2012. *The cultural landscape analysis of the domain-centered place-based community of Ave Maria, Florida.* (Associate Professor in Geography, Columbus State University).

11. Sunhui Sim. 2010. *A geospatial approach to measuring and modeling the impact of urban growth on ecosystems: Orlando case study*. FSU. (Associate Professor in Geography, University of North Alabama).
12. Ivan Gault 2007. *Fractal pattern recognition system for second-order high spatial resolution image data*. University of Ulster. (Software specialist, Northern Ireland).

Co-main professor to completed doctoral students (1)

13. Peter Wood 2016. *Urban development and political participation in Foz Do Iguaçu, Brazil*.

Committee member to completed doctoral students (18)

14. Tyler Fricker 2019. *A geography of tornado casualties in the United States*.
15. John Humphreys 2018. *Traits, species, and communities: Integrative Bayesian approaches to ecological biogeography across geographic, environmental, phylogenetic, and morphological space*.
16. Kathryn Ziewitz 2016. *New Urbanism on the ground: Using regional geographic context to evaluate sustainability outcomes for six central Florida New Urbanist communities*. (Faculty at Florida A&M University)
17. Di Shi 2016. *Integrating remote sensing with geospatial analysis to map and interpret vegetation patterns in an urban environment*.
18. Nicholas Quinton 2014. *Conservative social movement activism: tea party activism and scalar politics in campaigning for public office*. (Adjunct in Geography, FSU)
19. Ting Liu 2014. *Integrating geographic information technologies for land change analysis and modeling in an urban area*. Assistant Professor in Geography, Northern Illinois University.
20. Robert Hodges 2013. *Understanding and predicting the regional Sun-hurricane connection*.
21. Jill Trepanier 2012. *Quantifying extreme hurricane risk in the North Atlantic and Gulf of Mexico*. (Associate Professor in Geography, Louisiana State University)
22. Charles Layman 2012. *Modeling and evaluating changes to the urban structure*.
23. Heather Gamper 2012. *Effects of scale insects on forest dynamics in fragmented tropical montane oak forests of Veracruz, Mexico*.
24. Andreas Beger 2012. *Predicting the intensity and location of violence in war*. Department of Political Science (University representative)
25. Libin Zhou 2012. *Integrating artificial neural networks, image analysis and GIS for urban spatial growth characterization*. FSU.
26. John Sulik 2011. *Sub-national analysis of Darfur: examining the role of landscape on conflict incidence*. FSU. (Research Scientist)
27. Kelly Watson 2010. *Tupelo forests and honey production along the Apalachicola River of northwest Florida: livelihood preservation and forest conservation in a changing rural landscape*. (Assistant Professor in Geography, East Kentucky University)
28. Kelsey Scheitlin 2010. *Construction and application of a spatial hurricane climatology*. (Associate Professor in Geography, University of Tennessee)
29. Tao Zhang 2009. *Impacts of landscape characteristics on water quality: roles of empirical and process-based modeling*. Post-doctoral research assistant, Michigan State University.
30. XiaoHang Liu 2003. *Estimation of the spatial distribution of urban population using high spatial resolution satellite imagery*. (University of California at Santa Barbara external committee member) Associate Professor in Geography, San Francisco State University.
31. Christopher Doll 2003. *Assessment of DMSP OLS data for measuring nighttime lights*. University College London external committee member.

Main professor to completed master's students (26)

32. Aaron Binns 2010. (Non-thesis).
33. Sharla Lair 2008. (Non-thesis).
34. John Bevington 2004. *Spatial metrics of land cover distributions from IKONOS*. University of Ulster.
35. Claire Stevens 2004. *Spatial analysis of conflict-related death distributions in Belfast*. University of Ulster.
36. Michael Graham 2004. *Analysis of sectarian-constrained employee distributions*. University of Ulster.
37. Andrew Holdsworth 2004. *Classification, NDVI, Tasseled Cap for arid wetland delineation*. University of Ulster.
38. Laura McGurrin 2004. *Dasymetric population estimation from IKONOS*. University of Ulster.
39. Benon Mutungi 2003. *GIS implementation for environmental management in Uganda*. University of Ulster.
40. Shelagh Herrity 2003. *Using remote sensing to interpret drumlin patterns in NW Ireland*. University of Ulster.
41. Paul McKenzie 2003. *Neighborhood pattern recognition using IKONOS and COMPAS*. University of Ulster.
42. Kefelagn Cherent 2003. *Change detection analysis of the north coast*. University of Ulster.
43. Adrian O'Reilly 2003. *Modeling sea level rises and storm surges around Strangford Lough*. University of Ulster.
44. Natasha Eames 2003. *GIS based explanation of conflict-related deaths in Belfast*. University of Ulster.
45. Ivana Barisin 2003. *Water quality assessment using Landsat TM imagery*. University of Ulster.
46. Gareth Young 2002. *GIS and coastal change at Rossnowlagh, Donegal*. University of Ulster.
47. Richard McMullan 2002. *Post-classification land cover change detection*. University of Ulster.
48. Ivan Gault 2002. *Measuring urban morphologies using fractal geometry*. University of Ulster.
49. Gerard Wilson 2002. *Estimating population and GDP from DMSP-OLS in Africa and Europe*. Ulster University.
50. Julie Hannaway 2002. *Image change detection: peat land farming in Sperrins*. University of Ulster.
51. Lindsay Holmes 2001. *GIS for salmon habitat management in River Roe catchment*. University of Ulster.
52. Elaine Burnside 2001. *Estimating population of Ireland using DMSP-OLS nighttime data*. University of Ulster.
53. Marielle Colhoun 2001. *Multi-criteria evaluation of storm impact on electricity network*. University of Ulster.
54. Peter Hanratty 2001. *Estimating population growth using remote sensing and GIS*. University of Ulster.
55. Rosita McFadden 2001. *Optimum site selection of wind farms in Donegal: GIS approach*. University of Ulster.
56. Verity McMahon 2000. *Use of GIS to map socio-economic black spots in Belfast*. University of Ulster.
57. Ciaran Higgins 2000. *Spatial analysis of a social problem: JSA in Belfast*. University of Ulster.

Committee member of completed master's students (5)

58. Nicholas Craig 2018. *A GIS-based multi-criteria decision analysis to select roadside wildflower planting sites for ground-nesting bees in Leon County, Florida*.
59. Tyler Fricker 2015. *Kinetic energy of tornadoes in the United State (2007-2013)*.
60. Loury Migliorelli 2014. *Effects of fragmentation, climate, and substrate age on endangerment, changing species composition, and associated reproductive traits in Hawaiian dry forest species*.
61. Ona Strikas 2012. *An investigation towards spatially modeling the mechanisms for spatial differentiation of cloud-to-ground lightning in the Atlanta, Georgia region*.
62. Paul Maliszewski 2008. *Modeling critical vaccine supply location: protecting critical infrastructure and population in central Florida*.

**Professional Memberships & Services**

Editorial Board *Remote Sensing* (2018–)  
Editorial Board *International Journal of Urban Dynamics* (2018–)  
Editorial Review Board *Advancing Geographic Information Science: The Past & Next Twenty Years* (2015)  
Peer Review Referee, US National Science Foundation (2006–present)  
Peer Review Referee, EARSeL SIG *Urban Remote Sensing* (2003–present)  
Peer Review Referee, US Environmental Protection Agency (2009–2010)  
Peer Review Referee, SRON Netherlands Institute for Space Research (2006–2008)  
Advisory Committee *4<sup>th</sup> International Wuhan-EMU Joint Conference in Geo-informatics in Sustainable Ecosystem & Society* (GSES-2016)  
External Reviewer for Department of Geosciences, University of South Florida (2015)  
Local Arrangement Committee *Annual Meeting of the Association of American Geographers* Tampa (2014)  
Program Committee *Geocomputation* (2011)  
Scientific Committee *Remote Sensing of Urban Areas* (2005)  
Organizing Committee *Conference of Irish Geographers* (2002)  
Peer Review Referee, UK Economic Social Research Council (1999–2004)  
GIS Graduate Committee, University of Ulster, Coleraine, UK (1999–2004)  
European Union (Tempus II) Curriculum Development of GIS in Poland (1999–2000)  
Editorial Board *Computers, Environment & Urban Systems* (1997–2008)  
ISPRS Intercommission Working Group IV/III.2 (1996–present)  
Member *American Society for Photogrammetry and Remote Sensing* (1991–present)  
Member *Association of American Geographers* (1990–present)

External Academic Referee for **12** applications for promotion and tenure to associate professor

External Academic Referee for **11** applications for promotion to full professor.

Peer Review Referee of **386** articles in the following journals, *Applied Geography*; *Annals of the Association of American Geographers*; *Cities*; *Computers and Geosciences*; *Computers, Environment and Urban Systems*; *Environment and Planning A*; *Environment and Planning B*; *Geoforum*; *Geographical Analysis*; *Information Fusion*; *International Journal of Digital Earth*; *International Journal of Geospatial and Environmental Research*; *International Journal of Geographical Information Science*; *International Journal of Remote Sensing*; *International Regional Science Review*; *ISPRS Journal of Photogrammetry and Remote Sensing*; *Journal of Geography*; *Journal of Selected Topics in Applied Earth Observations and Remote Sensing*; *Landscape and Urban Planning*; *Landscape Ecology*; *Landscape and Urban Planning*; *Landscape Research*; *Photogrammetric Engineering & Remote Sensing*; *Political Geography*, *Professional Geographer*; *Remote Sensing*; *Remote Sensing of Environment*; *Social Geography*; *Southeastern Geographer*; *Urban Geography*.

Peer Review Referee for **15** books, including: *A Primer of GIS: Fundamental Geographic & Cartographic Concepts* (Francis Harvey); *Environment* (Peter Raven, et al); *Principles of Geographic Information Systems* (John Jensen and Ryan Jensen); *Fundamentals of Physical Geography* (Petersen); *Essentials of Geographic Information Systems* (Michael Shin and Jonathan Campbell); *Introduction to Remote Sensing* (James Campbell); *Digital Analysis of Remotely Sensed Imagery* (Jay Gao).