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**Nathaniel Bell**

Pronouns: he/him/his

**Affiliation**

Associate Professor, College of Social Work  
 Director of Research and Evaluation  
 Division of Integrated Health and Policy Research  
 Institute for Families in Society  
 University of South Carolina

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[nathaniel@sc.edu](mailto:nathaniel@sc.edu)

**Education**


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2010 – 2013	<b>University of British Columbia, Department of Surgery</b> <b>Post Doctorate</b> Title: "Quality of care following injury in British Columbia and the Yukon: a study to evaluate the use of linked administrative data sources to evaluate care" Committee: Boris Sobolev, Richard Simons
2007 – 2010	<b>Simon Fraser University, Department of Geography</b> <b>PhD</b> Title: "A Spatial Epidemiology of Trauma: Social and Spatial Perspectives Toward Injury" Committee: Nadine Schuurman, Michael Hayes, S. Morad Hameed
2004 – 2006	<b>Simon Fraser University, Department of Geography</b> <b>MA</b> Title: "Constructing Place Specific Measures of Health and Socio-Economic Inequality for Metropolitan Vancouver" Committee: Nadine Schuurman, Michael V. Hayes
1998 – 2001	<b>Michigan State University, Department of Social Science</b> <b>BA</b>

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**Research Interests**


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<b>Current</b>	CMS Network Adequacy Broadband Accessibility and Utilization Maternal, Child, and Reproductive Health
<b>Ongoing</b>	Medicaid claims/encounters Geographic Information Systems Access to Care Health Care Quality Health Disparities / Social Determinants of Health

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**Honors and Awards**


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2013	Featured Scholar, University of South Carolina Office of Research
2011 – 2013	Canadian Institutes for Health Research Fellow
2008	Senior Research Award, Michael Smith Foundation for Health Research
2008	Graduate Fellowship, Office of the Dean of Arts & Sciences, Simon Fraser University
2008	Mathematics of Information Technology and Complex Systems (MITACS) research scholarship

2008	New Scholar Award, Association of Canadian Geographers
2007	Mathematics of Information Technology and Complex Systems (MITACS) research scholarship
2006	Graduate Fellowship, Office of the Dean of Arts & Sciences, Simon Fraser University

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**Professional Experience**

2023 -	Director, Research and Clinical Evaluation, Division of Integrated Health and Policy Research, Institute for Families in Society
2023 -	Associate Professor, College of Social Work, University of South Carolina
2019 - 2023	Associate Professor, College of Nursing, University of South Carolina
2013 – 2019	Assistant Professor, College of Nursing, University of South Carolina
2017 – 2023	Affiliated Faculty, Institute for Families in Society
2010 - 2013	Postdoctoral Fellow, Department of Surgery, University of British Columbia
2010 – 2012	Instructor, School of Population and Public Health, University of British Columbia
2009 – 2010	Instructor, Population Data BC
2005 – 2008	Teaching Assistant, Department of Geography, Simon Fraser University
2004 – 2007	Research Assistant, Institute for Health Research and Education, Simon Fraser University
2001 – 2003	GIS Technician, Lake Mead National Recreation Area

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**Research Funding**

2020 -	<b>Technical assistance and support for policy research and evaluation for the South Carolina Medicaid program</b> Co-I, PI (López De-Fede) Funder: SC DHHS
2022 -	<b>Statewide SNAP-Ed evaluation</b> Co-I, PI (Draper) Funder: HRSA
2020-2021	<b>A Spatial Approach to Evaluating Potential and Realized Access to Broadband Services--A "Super-Determinant of Health"</b> PI/Co-I (Zahnd) Funder: UofSC Big Data & Health Sciences
2019 – 2021	<b>Effect of the patient-centered medical home on geographic and racial disparities in health care access</b> PI Funder: AHRQ
2020 – 2021	<b>Rural Health Research Center Program 2020</b> Co-I (Eberth) Funder: HRSA/FORHP
2019 – 2020	<b>Rural Health Research Center Cooperative Agreement 2019-2020 - FORHP Project</b> Co-I (Eberth) Funder: HRSA/FORHP
2014 - 2017	<b>When cancer is identified after injury: What are the outcomes?</b> PI Funder: Health Sciences South Carolina

2014 – 2016	<b>Geographic disparities in access to outpatient rehabilitation services after spinal cord injury</b> PI Funder: SC Spinal Cord Injury Research Fund
2014 – 2015	<b>Geographic disparities in access to post-acute health care services after injury</b> PI Funder: UofSC Aspire I
2012 – 2014	<b>Burn survivor quality of life British Columbia: challenges and opportunities.</b> Co-I (Papp) Funder: Vancouver Foundation
2011 – 2013	<b>Disseminating SIMCARE results to other services and jurisdiction</b> Co-I (Sobolev) Funder: Canadian Institutes for Health Research
2010 - 2013	An integrated regional trauma care data system linking clinical care and process-outcome evaluation Co-I (Evans) Funder: Canadian Institutes for Health Research
2011 – 2012	<b>Monitoring quality of life after injury: a pilot study and expansion of the surgical resident-as-advocate role</b> Co-I (Hameed) Funder: Social Accountability and Community Engagement (SACE)
2010 – 2011	<b>Access and Utilization of Rehabilitation Services After Traumatic Injury</b> Co-I (Hameed) Funder: UBC Health Research Resource Office
2009 – 2012	<b>Optimization of Trauma Systems</b> Co-I (Evans) Funder: Michael Smith Foundation For Health Research

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### Publications (while at University of South Carolina)

1. Tucker CM, **Bell N**, Corbett CF, Lyndon A, Felder TM. Using medical expenditure panel survey data to explore the relationship between patient-centered medical homes and racial disparities in severe maternal morbidity outcomes. *Women's Health (Lond)* 2023;19:17455057221147380. (In eng). DOI: 10.1177/17455057221147380.
2. Garner, SM, Reparaz L, Justice, J, Foster AP, Litzenberger S, **Bell N**, Schaller SL, Spoor K, Cull J, Watson CM, Dunkelberger LC. Percutaneous Endoscopic Gastrostomy Placement in Trauma Patients: Early vs Delayed Initiation of Enteral Feeding. *Am Surg* 2023;89(7):3336-3338. (In eng). DOI: 10.1177/00031348231157880.
3. Gareau S, López-De Fede A, Chen Z, **Bell N**, Mayfield-Smith K. Association of Hospital Incentive Care Management Partnerships for Uninsured Patients With Emergency Department Utilization. *JAMA Network Open* 2023;6(7):e2322798. (In eng). DOI: 10.1001/jamanetworkopen.2023.22798.
4. **Bell N**, Hung P, Merrell MA, Crouch E, Eberth JM. Changes in access to community health services among rural areas affected and unaffected by hospital closures between 2006 and 2018: A comparative interrupted time series study. *J Rural Health* 2023;39(1):291-301. (In eng). DOI: 10.1111/jrh.12691.
5. **Bell N**, Hung P, López-De Fede A, Adams SA. Broadband access within Medically Underserved Areas and its implication for telehealth utilization. *J Rural Health* 2023;39(3):625-635. (In eng). DOI: 10.1111/jrh.12738.
6. Zahnd WE, **Bell N**, Larson AE. Geographic, racial/ethnic, and socioeconomic inequities in broadband access. *J Rural Health* 2022;38(3):519-526. (In eng). DOI: 10.1111/jrh.12635.
7. Schultz BE, Corbett CF, Hughes RG, **Bell N**. Post-Hospital Availability of Instrumental Support May Influence Patients' Readiness for Discharge. *Prof Case Manag* 2022;27(4):194-202. (In eng). DOI: 10.1097/ncm.0000000000000558.

8. Schultz BE, Corbett CF, Hughes RG, **Bell N**. Scoping review: Social support impacts hospital readmission rates. *J Clin Nurs* 2022;31(19-20):2691-2705. (In eng). DOI: 10.1111/jocn.16143.
9. George T, Hopla D, Bell N, et al. Hands-On Experience With Long-Acting Reversible Contraception for Nurse Practitioner Students. *The Journal for Nurse Practitioners* 2022;18(10):1111-1114. DOI: 10.1016/j.nurpra.2022.08.006.
10. **Bell N**, Lòpez-De Fede A, Cai B, Brooks J. Geographic proximity to primary care providers as a risk-assessment criterion for quality performance measures. *PLoS One* 2022;17(9):e0273805. (In eng). DOI: 10.1371/journal.pone.0273805.
11. **Bell N**, Hung P, Shi K, Merrell MA, Crouch E, Eberth JM. Changes in access to nearest Federally Qualified Health Centers and Rural Health Clinics among rural ZIP codes that did and did not experience a hospital closure, 2006-2018. *Rural Health Research Gateway Policy Brief* 2022: University of South Carolina Rural and Minority Health Research Center.
12. **Bell N**, Hopla D, George T, Durham CO, Miller L, Kelley S. Impact of a Contraceptive Services Curriculum for Graduate Nursing Programs. *Social Sciences Research Network* 2022; Available at: <https://ssrn.com/abstract=4073421>.
13. Rosenkrantz L, Schuurman N, **Bell N**, Amram O. The need for GIScience in mapping COVID-19. *Health & Place* 2021;67:102389. (In eng). DOI: 10.1016/j.healthplace.2020.102389.
14. Prest PJ, Reath JJ, **Bell N**, McCarroll R, Watson CM. Evaluating a symptom-triggered gastric residual volume policy in a surgical trauma intensive care unit: Simple and safe. *Nutr Clin Pract* 2021;36(4):899-906. (In eng). DOI: 10.1002/ncp.10654.
15. **Bell N**, Wilkerson R, Mayfield-Smith K, Lòpez-De Fede A. Community social determinants and health outcomes drive availability of patient-centered medical homes. *Health & Place* 2021;67:102439. (In eng). DOI: 10.1016/j.healthplace.2020.102439.
16. **Bell N**, Hung P, Shi K, Merrell MA, Crouch E, Eberth JM. Changes in Socioeconomic Mix and Health Outcomes in Rural Counties with Hospital Closures, 2005-2018. *Rural Health Research Gateway Policy Brief* 2021; University of South Carolina Rural and Minority Health Research Center
17. Prest PJ, Justice J, **Bell N**, McCarroll R, Watson CM. A Volume-Based Feeding Protocol Improves Nutrient Delivery and Glycemic Control in a Surgical Trauma Intensive Care Unit. *JPEN J Parenter Enteral Nutr* 2020;44(5):880-888. (In eng). DOI: 10.1002/jpen.1712.
18. **Bell N**, Wilkerson R, Mayfield-Smith K, Lòpez-De Fede A. Association of Patient-Centered Medical Home designation and quality indicators within HRSA-funded community health center delivery sites. *BMC Health Serv Res* 2020;20(1):980. (In eng). DOI: 10.1186/s12913-020-05826-x.
19. **Bell N**, Lòpez-De Fede A, Cai B, Brooks JM. Reliability of the American Community Survey Estimates of Risk-Adjusted Readmission Rankings for Hospitals Before and After Peer Group Stratification. *JAMA Netw Open* 2019;2(10):e1912727. (In eng). DOI: 10.1001/jamanetworkopen.2019.12727.
20. **Bell N**, Arrington A, Adams SA, et al. Incidental Cancer Diagnoses in Trauma Patients: A Case-Control Study Evaluating Long-term Outcomes. *J Surg Res* 2019;242:304-311. (In eng). DOI: 10.1016/j.jss.2019.03.008.
21. **Bell N**, Lòpez-DeFede A, Wilkerson RC, Mayfield-Smith K. Precision of provider licensure data for mapping member accessibility to Medicaid managed care provider networks. *BMC Health Serv Res* 2018;18(1):974. (In eng). DOI: 10.1186/s12913-018-3776-4.
22. **Bell N**, Hughes R, Fede AL-D. Collaborative Practice Agreements and Their Geographic Impact on Where Nurse Practitioners Can Practice. *Journal of Nursing Regulation* 2018;9(3):5-14. DOI: [https://doi.org/10.1016/S2155-8256\(18\)30149-2](https://doi.org/10.1016/S2155-8256(18)30149-2).
23. Myhren-Bennett A, **Bell N**. Adherence to Standards of Practice Treating Diabetes between Physicians and Nurse Practitioners: The National Hospital and Ambulatory Medical Care Surveys. *Quality in Primary Care* 2017;25(3):176-186.
24. Bradley NL, Garraway N, **Bell N**, Lakha N, Hameed SM. Data capture and communication during transfers to definitive care in an inclusive trauma system. *Injury* 2017;48(5):1069-1073. (In eng). DOI: 10.1016/j.injury.2016.11.004.
25. **Bell N**, Kidanie T, Cai B, Krause JS. Geographic Variation in Outpatient Health Care Service Utilization After Spinal Cord Injury. *Arch Phys Med Rehabil* 2017;98(2):341-346. (In eng). DOI: 10.1016/j.apmr.2016.09.130.
26. **Bell N**, Cai B. The reliability of the American Community Survey for injury surveillance. *Inj Prev* 2017;23(4):244-262. (In eng). DOI: 10.1136/injuryprev-2016-042122.
27. **Bell N**, Repàraz L, Fry WR, Smith RS, Luis A. Variation in type and frequency of diagnostic imaging during trauma care across multiple time points by patient insurance type. *BMC Med Imaging* 2016;16(1):61. (In eng). DOI: 10.1186/s12880-016-0146-8.
28. **Bell N**, Cai B. Reliability of the American Community Survey for unintentional drowning and submersion injury surveillance: a comprehensive assessment of 10 socioeconomic indicators derived

- from the 2006-2013 annual and multi-year data cycles. *Inj Epidemiol* 2015;2(1):33. (In eng). DOI: 10.1186/s40621-015-0065-0.
29. **Bell N**, Arrington A, Adams SA. Census-based socioeconomic indicators for monitoring injury causes in the USA: a review. *Inj Prev* 2015;21(4):278-84. (In eng). DOI: 10.1136/injuryprev-2014-041444.
  30. Eberth JM, Qiu R, Adams SA, Salloum RG, **Bell N**, Arrington AK, Linder SK, Munden RF. Lung cancer screening using low-dose CT: the current national landscape. *Lung Cancer* 2014;85(3):379-84. (In eng). DOI: 10.1016/j.lungcan.2014.07.002.

#### Publications (while at University of British Columbia)

31. **Bell N**, Sobolev B, Townson A, Evans DC, Anton H, Simons RK. Classifying outcomes of care for injured patients. *Can J Surg* 2014;57(6):368-70. (In eng). DOI: 10.1503/cjs.004114.
32. **Bell N**, Sobolev B, Anderson S, Hewko R, Simons RK. Routine versus ad hoc screening for acute stress following injury: who would benefit and what are the opportunities for prevention. *J Trauma Manag Outcomes* 2014;8:5. (In eng). DOI: 10.1186/1752-2897-8-5.
33. **Bell N**, Kruse S, Simons RK, Brussoni M. A spatial analysis of functional outcomes and quality of life outcomes after pediatric injury. *Inj Epidemiol* 2014;1(1):16. (In eng). DOI: 10.1186/s40621-014-0016-1.
34. Faulds J, **Bell N**, Harrington DM, et al. Socioeconomic and geographic disparities in access to endovascular abdominal aortic aneurysm repair. *Ann Vasc Surg* 2013;27(8):1061-7. (In eng). DOI: 10.1016/j.avsg.2013.02.020.
35. Brown DR, Heidary B, **Bell N**, Appleton L, Simons RK, Evans DC, Hameed SM, Taunton J, Khwaja K, O'Connor M, Garraway N, Hennecke P, Kuipers D, Taulu T, Quinn L. Creating a gold medal Olympic and Paralympics health care team: a satisfaction survey of the mobile medical unit/polyclinic team training for the Vancouver 2010 winter games. *BMC Res Notes* 2013;6:462. (In eng). DOI: 10.1186/1756-0500-6-462.
36. Heidary B, **Bell N**, Ngai JT, Simons RK, Chipperfield K, Hameed SM. Temporal trends in the treatment of severe traumatic hemorrhage. *Am J Surg* 2012;203(5):568-573. (In eng). DOI: 10.1016/j.amjsurg.2011.12.012.
37. Galway L, **Bell N**, Sae AS, et al. A two-stage cluster sampling method using gridded population data, a GIS, and Google Earth(TM) imagery in a population-based mortality survey in Iraq. *Int J Health Geogr* 2012;11:12. (In eng). DOI: 10.1186/1476-072x-11-12.
38. **Bell N**, Simons RK, Lakha N, Hameed SM. Are we failing our rural communities? Motor vehicle injury in British Columbia, Canada, 2001-2007. *Injury* 2012;43(11):1888-91. (In eng). DOI: 10.1016/j.injury.2011.07.018.

#### Publications (while at Simon Fraser University)

39. **Bell N**, Simons R, Hameed SM, Schuurman N, Wheeler S. Does direct transport to provincial burn centres improve outcomes? A spatial epidemiology of severe burn injury in British Columbia, 2001-2006. *Can J Surg* 2012;55(2):110-6. (In eng). DOI: 10.1503/cjs.014708.
40. **Bell N**, Hayes MV. The Vancouver Area Neighbourhood Deprivation Index (VANDIX): a census-based tool for assessing small-area variations in health status. *Can J Public Health* 2012;103(8 Suppl 2):S28-32. (In eng). DOI: 10.1007/bf03403826.
41. McLaughlin T, Hennecke P, Garraway NR, Evans DC, Hameed SM, Simons RK, Doucet J, Hansen D, Annand S, **Bell N**, Brown DR. A predeployment trauma team training course creates confidence in teamwork and clinical skills: a post-Afghanistan deployment validation study of Canadian Forces healthcare personnel. *J Trauma* 2011;71(5 Suppl 1):S487-93. (In eng). DOI: 10.1097/TA.0b013e318232e9e7.
42. **Bell N**, Schuurman N, Hameed SM, Caron N. Are we homogenising risk factors for public health surveillance? Variability in severe injuries on First Nations reserves in British Columbia, 2001-5. *Inj Prev* 2011;17(6):394-400. (In eng). DOI: 10.1136/ip.2010.030866.
43. Lord SE, Hameed SM, Schuurman N, **Bell N**, Simons RK. Vulnerability to pedestrian trauma: Demographic, temporal, societal, geographic, and environmental factors. *British Columbia Medical Journal* 2010;52(3):136-143.
44. Hameed SM, **Bell N**, Schuurman N. Analyzing the effects of place on injury: Does the choice of geographic scale and zone matter? *Open Med* 2010;4(4):e171-80. (In eng).
45. **Bell N**, Schuurman N. GIS and injury prevention and control: history, challenges, and opportunities. *Int J Environ Res Public Health* 2010;7(3):1002-17. (In eng). DOI: 10.3390/ijerph7031002.
46. Schuurman N, **Bell N**, L'Heureux R, Hameed SM. Modelling optimal location for pre-hospital helicopter emergency medical services. *BMC Emerg Med* 2009;9:6. (In eng). DOI: 10.1186/1471-227x-9-6.

47. **Bell N**, Schuurman N, Morad Hameed S. A small-area population analysis of socioeconomic status and incidence of severe burn/fire-related injury in British Columbia, Canada. *Burns* 2009;35(8):1133-41. (In eng). DOI: 10.1016/j.burns.2009.04.028.
48. **Bell N**. Invited Commentary: The Role of GIS in Forensic Mental Health: Challenges and Opportunities. *International Journal of Forensic Mental Health* 2009;8(3):169-171. DOI: 10.1080/14999010903358763.
49. **Bell N**, Schuurman N, Hameed SM. A multilevel analysis of the socio-spatial pattern of assault injuries in greater Vancouver, British Columbia. *Can J Public Health* 2009;100(1):73-7. (In eng). DOI: 10.1007/bf03405498.
50. Schuurman N, Hameed SM, Fiedler R, **Bell N**, Simons RK. The spatial epidemiology of trauma: the potential of geographic information science to organize data and reveal patterns of injury and services. *Can J Surg* 2008;51(5):389-95. (In eng).
51. Schuurman N, **Bell N**, Hameed MS, Simons R. A model for identifying and ranking need for trauma service in nonmetropolitan regions based on injury risk and access to services. *J Trauma* 2008; 65(1):54-62. (In eng). DOI: 10.1097/TA.0b013e31815efe0e.
52. **Bell N**, Schuurman N, Hameed SM. Are injuries spatially related? Join-count spatial autocorrelation for small-area injury analysis. *Inj Prev* 2008;14(6):346-53. (In eng). DOI: 10.1136/ip.2008.018903.
53. Schuurman N, **Bell N**, Dunn JR, Oliver L. Deprivation indices, population health and geography: an evaluation of the spatial effectiveness of indices at multiple scales. *J Urban Health* 2007;84(4):591-603. (In eng). DOI: 10.1007/s11524-007-9193-3.
54. **Bell N**, Schuurman N, Oliver L, Hayes MV. Towards the construction of place-specific measures of deprivation: a case study from the Vancouver metropolitan area. *Canadian Geographies / Géographies canadiennes* 2007;51(4):444-461. DOI: <https://doi.org/10.1111/j.1541-0064.2007.00191.x>.
55. **Bell N**, Schuurman N, Hayes MV. Using GIS-based methods of multicriteria analysis to construct socio-economic deprivation indices. *Int J Health Geogr* 2007;6:17. (In eng). DOI: 10.1186/1476-072x-6-17.

### Book Chapters

1. **Bell N**. Location allocation modeling practices for health services research using geographic information systems. In: Boscoe F, ed. *Geographic Health Data: Fundamental Techniques for Analysis*. Oxford: CABI; 2013.
2. **Bell N**, Schuurman N. GIS and Population Health: An Overview. In: Nyerges T, Couclelis H, McMaster R, eds. *Handbook of GIS and Society*. Los Angeles: SAGE; 2011.
3. Schuurman N, Leszcynski A, Fiedler R, Grund D, **Bell N**. Building an integrated cadastral fabric for higher resolution socioeconomic spatial data analysis. In: Riedl A, Kainz W, Elmes GA, eds. *Progress in Spatial Data Handling, 12th International Symposium on Spatial Data Handling*; Springer; 2006.

### Conference Presentations (oral presentations)

1. Tucker CM, **Bell N**, Corbett CL, Landon A, Felder TM. Investigating the impact of patient-centered medical homes on racial disparities in severe maternal morbidities using Medical Expenditure Panel Survey Data. 35th Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research (SPER). Virtual2022.
2. Karavites L, Mulji N, Alkhatib B, et al. Validating a multi-metric approach for geriatric trauma patient triage by combining Cribari matrix (CM) and need for trauma intervention (NFTI). South Carolina/North Carolina Chapter of the American College of Surgeons Annual Meeting. Myrtle Beach, SC2022.
3. Karavites L, Mulji N, Alkhatib B, et al. Validating a multi-metric approach for geriatric trauma patient triage by combining Cribari matrix and need for trauma intervention. Annual Southeastern Trauma Symposium. Columbia, SC2022.
4. Garner S, Reparaz L, Justice J, et al. Percutaneous Endoscopic Gastrostomy Placement in Trauma Patients: Early vs Delayed Initiation of Enteral Feeding. South Carolina/North Carolina Chapter of the American College of Surgeons Annual Meeting. Myrtle Beach, SC2022.
5. Garner S, Reparaz L, Justice J, Schaller S, **Bell N**, Dunkelberger L. Percutaneous endoscopic gastrostomy placement in trauma patients: early vs. delayed initiation of enteral feeding. Southeastern Trauma Symposium. Columbia, SC 2022.
6. **Bell N**, López-DeFede A. Centering Risk-Adjusted HEDIS Scores Around Racial and Ethnic Equity. AcademyHealth. Washington D.C. 2022.
7. **Bell N**, López-De Fede A. Broadband access and its implication for telehealth utilization for reproductive health care services among Medicaid beneficiaries in the wake of Dobbs.

- AcademyHealth, State-University Partnership Learning Network (SUPLN) Annual Fall Meeting Series. Virtual 2022.
8. **Bell N.** The impact of a graduate training curriculum in contraceptive services on Nurse Practitioner Attitudes, Beliefs, and Practice Patterns. American Public Health Association Annual Meeting and Exposition. Boston, MA 2022.
  9. **Bell N,** Lòpez-DeFede A, Wilkerson R, Mayfield-Smith K. Community social determinants and health outcomes drive availability of patient-centered medical homes. American Public Health Association Annual Meeting and Exposition. Virtual 2020.
  10. **Bell N,** Lòpez-DeFede A, Wilkerson R, Mayfield-Smith K. Effect of Travel Time/Distance on Access and Quality Indicators for Patient-Centered Medical Homes Among State Medicaid Beneficiaries. American Public Health Association Annual Meeting and Exposition. Virtual 2020.
  11. Prest P, Justice JA, **Bell N,** McCarrell R, Watson C. Comparison of a Volume Based Tube Feeding Protocol to Traditional Rate Directed Tube Feed in the Surgical Trauma ICU. Nestle Medical Hub. Virtual 2019.
  12. **Bell N,** Lòpez-DeFede A, Wilkerson R, Mayfield-Smith K. Creating the healthiest primary care delivery model: A national assessment of partial PCMH practice transformation on clinical performance within HRSA Community Health Centers. American Public Health Association Annual Meeting and Exposition. Philadelphia, PA 2019.
  13. **Bell N,** Lòpez-DeFede A, Cai B, Brooks J. Are safety net hospitals going to survive? Implications of data uncertainty in the American Community Survey (ACS) on risk adjusted readmission rankings. American Public Health Association Annual Meeting and Exposition. Philadelphia, PA 2019.
  14. **Bell N.** Geographical research on spinal cord injury disparities: some thoughts on the census and street-network mapping. Association of American Geographers Annual Meeting. Boston, MA 2017.
  15. **Bell N.** Reliability of the American Community Survey (ACS) for monitoring social determinants of injury risk: a comprehensive assessment of 49 socioeconomic estimates derived from the 2005 - 2013 annual and multi-year data cycles. Association of American Geographers Annual Meeting. San Francisco, CA 2016.
  16. **Bell N,** Reparaz L, Smith RS, Fry W. Trauma care and insurance coverage: The relationship between insurance type and diagnostic imaging over the course of care. American Public Health Association Annual Meeting and Exposition. Chicago, IL 2015.
  17. Fry WR, **Bell N,** Reparaz L, Smith RS. Insurance Status and Diagnostic Imaging as a Measure of Quality of Care. Collier Surgical Society Annual Scientific Meeting. Branson, MO 2014.
  18. **Bell N,** Brussoni M, Kruse S, Simons RK. Geographical analysis of functional health outcomes after pediatric injury using a spatial scan statistic. American Public Health Association Annual Meeting and Exposition. New Orleans, LA 2014.
  19. Adams SA, Arrington AK, **Bell N,** Eberth JM, Salloum RG, Heiney SP. A Comparison of Breast Cancer Treatment Received Between Participants and Non-Participants of the National Breast and Cervical Cancer Early Detection Program in South Carolina. 7th Biennial Cancer Survivorship Research Conference. Atlanta, GA 2014.
  20. **Bell N,** Sobolev B, Simons RK. Routine versus ad hoc screening for acute stress: Who would benefit and what are the opportunities for prevention? Trauma Association of Canada Annual Scientific Meeting. Whistler, BC 2013.
  21. **Bell N,** Brussoni M, Hameed SM, Simons RK. Risk Factors for loss-to-follow-up among trauma patients include functional, socio-economic, and geographic determinants: would mandating opt-out consent strategies minimize these risks? Trauma Association of Canada Annual Scientific Meeting. Toronto, ON 2012.
  22. **Bell N,** Brussoni M, George K, et al. Predictors of acute stress response in adult polytrauma patients following injury. Trauma Association of Canada Annual Scientific Meeting. Toronto, ON 2012.
  23. **Bell N.** The Vancouver Area Neighbourhood Deprivation Index (VANDIX). Using Area-based Socio-economic Measures to Measure, Monitor and Improve Disparities in Health, Presented by Canadian Institute for Health Information, Canadian Public Health Association annual scientific meeting. Edmonton, AB 2012.
  24. Randall E, **Bell N,** Sobolev B, Evans DC. Policy-relevant trauma system performance reporting: What do decision-makers need to know? Trauma Association of Canada Annual Scientific Meeting. Banff, AB 2011.
  25. **Bell N,** Simons RK, Lakha N, Hameed SM. Does Injury Prevention Fail our Rural Communities: Trends in Motor Vehicle Collisions in British Columbia, 2001 – 2006. Trauma Association of Canada Annual Scientific Meeting. Banff, AB 2011.

26. **Bell N.** The role of geographic information systems for implementing policy-level changes in injury prevention and control. invited panel presentation for the Trauma Association of Canada Annual Scientific Meeting. Banff, AB 2011.
27. Hameed SM, **Bell N.** The role of geomatics in trauma systems evaluation. Trauma Association of Canada Annual Scientific Meeting. Halifax, NS 2010.
28. **Bell N.**, Schuurman N, Hameed SM. GIS applications for prevention epidemiology. Canadian Association of Geographers Annual Meeting. Ottawa, ON 2009.
29. **Bell N.**, Schuurman N. Hidden patterns: the geographies of intentional-injury in Vancouver, BC. Association of American Geographers Annual Meeting. Las Vegas 2009.
30. **Bell N.**, Schuurman N, Hameed SM. Using geographic information systems to assess variation in severe trauma on aboriginal reserves in British Columbia. Trauma Association of Canada Annual Scientific Meeting. Whistler, BC 2008.
31. **Bell N.**, Schuurman N. GIScience applications for prevention epidemiology: the join-count autocorrelation test for binary health data. Spatial Knowledge and Information. Fernie, BC 2008.
32. **Bell N.**, Schuurman N. Measuring the effect of socio-economic status and geographical scale on risk of severe injury: A case study from Vancouver, British Columbia. Trauma Association of Canada Annual Scientific Meeting. Ottawa, ON 2007.
33. **Bell N.**, Schuurman N. Optimizing scale for injury surveillance and control: examining spatial dependency and community socioeconomic affects on traumatic injuries in British Columbia. Canadian Association of Geographers Annual Meeting. Saskatoon, SK 2007.
34. **Bell N.**, Schuurman N. A GIS based approach for assessing the likelihood of committing type-1 errors when measuring the association between injury and socio-economic status. Canadian Public Health Geomatics Conference. Ottawa, ON 2007.
35. **Bell N.**, Schuurman N. The other PPGIS: population health, public policy, and a healthy dose of GIS. Canadian Association of Geographers Annual Meeting. Thunder Bay, ON 2006.
36. **Bell N.**, Schuurman N, Grund D. GIS, MCA, and Mapping Inequalities in Population Health. Proceedings, 2005 GeoTec Event - Providing Perspective, Gaining Insight. Vancouver, BC 2005.

#### Conference Presentations (posters)

1. Tucker CM, **Bell N.**, Corbett CL, Landon A, Felder TM. Investigating the impact of patient-centered medical homes on racial disparities in severe maternal morbidities using Medical Expenditure Panel Survey Data. . 35th Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research (SPER). Virtual 2022.
2. Garner S, Reparaz L, Justice J, Schaller S, **Bell N.**, Dunkelberger L. Percutaneous endoscopic gastrostomy placement in trauma patients: early vs. delayed initiation of enteral feeding. Southeastern Trauma Symposium. Columbia, SC 2022.
3. **Bell N.**, Lopéz-De Fede A. Implementation of patient-centered medical homes and the geographic and socioeconomic barriers to care access. AcademyHealth 13th Annual Conference on the Science of Dissemination and Implementation. Virtual 2020.
4. **Bell N.** Socioeconomic indicators of injury risk: recommendations for a national surveillance model. American Public Health Association Annual Meeting and Exposition. Chicago, IL 2015.
5. **Bell N.**, Reparaz L, Smith RS, Fry WR. Insurance type, patient race, and diagnostic imaging as a measure of quality of care. 67th Annual Meeting of The Southwestern Surgical Congress. Monterey, CA 2015.
6. **Bell N.**, Arrington A, Adams SA. Census-based socioeconomic measures and injury risk: A systematic review. American Public Health Association Annual Meeting and Exposition. New Orleans, LA 2014.
7. Brown R, Heidary B, **Bell N.**, et al. A Validation Study of the Mobile Medical Unit/Polyclinic Team Training for the Vancouver 2010 Winter Games. Trauma Association of Canada Annual Scientific Meeting. Toronto, ON 2012.
8. Galway L, Takaro T, Burnham G, Flaxman A, Rajaratnam J, **Bell N.** A spatial algorithm for household selection in cluster sampling to estimate civilian mortality in Iraq. GEOMED international conference on spatial statistics and geomedical systems. Victoria, BC 2011.
9. Evans D, Randall E, **Bell N.**, et al. Policy-relevant trauma system performance reporting: A national survey of what decision makers need to know. Canadian Association for Health Services and Policy Research. Halifax, NS 2011.
10. Robbins N, **Bell N.**, Brasher P, Williams A, Cooper J, Evans DC. Assessing Timeliness of Access to Care A Retrospective Study of Blunt Aortic Injury in the B.C. Trauma System. Canadian Association of General Surgeons Annual Conference. Halifax, NS 2008.



11. Schuurman N, **Bell N**, Berube M. A Method to allocate hospital services in rural and remote British Columbia based on travel-time catchments. Participating in the Rural Surgical Symposium. Vancouver, BC 2007.
12. Schuurman N, **Bell N**, Berube M. A GIS Application to Model Effects of Hospital Services Changes. Canadian Public Health Geomatics Conference. Ottawa, ON 2007.
13. Ronning C, Broemeling AM, Schuurman N, **Bell N**. Boundary Definitions to Improve Health Service Delivery and Population Health Planning. Canadian Public Health Geomatics Conference. Ottawa, ON 2007.
14. **Bell N**, Schuurman N, Hameed SM. A method for calculating spatial dependency in trauma injury patterns. Accelerate BC Graduate Research Internship Program Showcase. Vancouver, BC 2007.

### Teaching

NURS720	<b>Clinical Application of Population Analysis</b> College of Nursing, University of South Carolina Fall/Spring 2014 – 2023
NURS810	<b>Advanced Nursing Research (Research Methods I)</b> College of Nursing, University of South Carolina Spring 2014 - 2023
NURS717	<b>Application of Basic Statistics for Nursing &amp; Nursing Services Management</b> College of Nursing, University of South Carolina Fall/Spring 2015 - 2018
SPHA556	<b>Social Determinants of Health</b> School of Population and Public Health, University of British Columbia Various Semesters 2011 - 2013
GEOG355	Geographical Information Science II Department of Geography, Simon Fraser University Various Semesters 2004 - 2007
GEOG251	Geographical Information Science I Department of Geography, Simon Fraser University Various Semesters 2004 - 2007

### Graduate Supervision

Tucker, C.	<b>Race is not a risk factor: examining the influence of models of care, race, and discrimination on racial disparities in maternal outcomes</b> College of Nursing, University of South Carolina PhD Committee Member (2021)
Schultz, B.	<b>Nurses' and Patients' Perceptions of the Availability of Post-Hospital Instrumental Support</b> College of Nursing, University of South Carolina PhD Committee Member (2021)
Rabieh, M.	<b>Utilization of checklists to improve adherence to Choosing Wisely recommendations to reduce routinely ordered tests in the ICU</b> College of Nursing, University of South Carolina

Fedarovich R,	DnP Chair (2019) <b>Improving Perioperative Temperatures Using Thermal Space Blankets</b> College of Nursing, University of South Carolina DnP Chair (2019)
Chappell, K.	<b>Examining Adult Caregiver Vigilance for Child Sexual Abuse</b> College of Nursing, University of South Carolina PhD Committee Member (2019)
Baker, C.	<b>Sequential Organ Failure Assessment and ICU Mortality</b> College of Nursing, University of South Carolina PhD Committee Member (2019)
Hess, M.C.	<b>Process Implementation: Nurse-Led Inpatient Diabetic Education</b> College of Nursing, University of South Carolina DnP Chair (2019)
Thompson, R.	<b>The effect of provider- and workflow-focused strategies for TQIP guideline adherence to the treatment of traumatic brain injured patient</b> DnP Chair (2018)
Nkwonta, C.	<b>Educational intervention to increase HPV and cervical cancer knowledge and intention to screen for and take HPV vaccine in Nigeria</b> College of Nursing, University of South Carolina PhD Committee Member (2018)
Hess, M.C.	<b>Process Implementation: Nurse-Led Inpatient Diabetic Education</b> College of Nursing, University of South Carolina DnP Chair (2019)
Chong, C.	<b>Intervention strategies to address risk factors related to accessing eye care in Canada</b> School of Population and Public Health, University of British Columbia Masters of Health Administration (2013)
Vargas, P.	<b>Does Organizational Culture in Health Care Matter for Patient Care Performance? - A Narrative Literature Review</b> School of Population and Public Health, University of British Columbia Masters of Health Administration (2012)

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**Volunteer/Service**

<b>Current</b>	New Morning Foundation Co-Chair, Trauma Services Research Council (Prisma, Richland Hospital) Associate Editor, PLOS One
<b>Previous</b>	Associate Editor, BMC Health Services Research Faculty Senator, University of South Carolina Faculty Graduate Council, University of South Carolina BC Red Cross Vibrant Surrey

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