

## STEPHEN PORTER

### CONTACT INFORMATION

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North Carolina State University  
Raleigh, NC 27695

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### EDUCATION

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- Ph.D. University of Rochester, 1996, Political Science. Concentrations: econometrics, legislative processes, comparative politics.
- M.A. University of Rochester, 1995, Political Science.
- B.A. Rice University, 1987, Political Science.

### PROFESSIONAL EXPERIENCE

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Professor – Department of Educational Leadership, Policy, and Human Development, North Carolina State University, 2011 to present.  
Visiting Scholar – Education and Workforce Development Division, RTI International, 2014-2015.  
Visiting Scholar – Center of Excellence for Complex Data Analysis, RTI International, 2013-2014.  
Associate Professor – Department of Educational Leadership and Policy Studies, Iowa State University, 2005 to 2011.  
Director of Institutional Research – Wesleyan University, 2000 to 2005.  
Evaluation Researcher – School of Nursing, University of Maryland, Baltimore, 2000.  
Research Analyst – Office of Institutional Studies, University of Maryland, College Park, 1996- 2000.  
Post-Doctoral Research Associate – Center for German and European Studies, Georgetown University, 1995-1996.

### REFEREED ARTICLES

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1. Liebfreund, M.D., Porter, S., Amendum, S. J., & Starcke, M.A. (In press). Using an assessment system for data-driven reform: Effects of mCLASS on third-grade reading test scores and special education placement. *The Elementary School Journal*.
2. Egalite, A.J., Stallings, D.T. & Porter, S. (2020). An analysis of the effects of North Carolina's Opportunity Scholarship Program on student achievement. *AERA Open*, 6(1), 1-15.
3. Starcke, M. A. & Porter, S. (2019). Do student conduct administrators discriminate against Black students? An analysis of drug sanctions using vignettes. *Review of Higher Education*, 42(2), 765-792.
4. Rosen, J., Porter, S., and Rogers, J. (2017). Understanding student self-reports of academic performance and course-taking behavior. *AERA Open*, 3(2), 1-14.
5. Adams, E.L., Carrier, S.J., Minogue, J., Porter, S., McEachin, A., Walkowiak, T.A., & Zulli, R.A. (2017). The development and validation of the Instructional Practices Log in Science (IPL-S): A measure of K-5 science instruction. *International Journal of Science Education*, 39(3), 335-357.
6. Porter, S. and Conzelmann, J. (2017). Strategic use of FAFSA list information by colleges. *Research in Higher Education*. 58(5), 568-579.
7. Porter, S. (2016). Competency-based education and federal student aid. *Journal of Student Financial Aid*, 46(3), 2-15.

8. Porter, S. (2013). The causal effect of faculty unions on institutional decision-making. *Industrial and Labor Relations Review*, 66(5), 1192-1211.
9. Porter, S. (2013). Self-reported learning gains: A theory and test of college student survey response. *Research in Higher Education*, 54(2), 201-226.
10. Porter, S. (2011). Do college student survey questions have any validity? *Review of Higher Education*, 35(1), 45-76.
11. Porter, S., Toutkoushian, R.K., & Moore, J.V. (2008). Pay inequities for recently-hired faculty, 1988-2004. *Review of Higher Education*, 31(4), 465-487.
12. Porter, S., & Whitcomb, M.E. (2007). Mixed-mode contacts in web surveys: Paper is not necessarily better. *Public Opinion Quarterly*, 71(4), 635-648
13. Porter, S. (2007). A closer look at faculty service: What affects participation on committees? *Journal of Higher Education*, 78(5), 523-541.
14. Porter, S., & Pryor, J.H. (2007). The effect of alcohol use on student engagement. *Journal of College Student Development*, 48(4), 455-467.
15. Porter, S. (2006). Institutional structures and student engagement. *Research in Higher Education*, 47(5), 521-558.
16. Porter, S., & Swing, R.L. (2006). Understanding how first-year seminars affect persistence. *Research in Higher Education*, 47(1), 89-109.
17. Porter, S., & Toutkoushian, R. K. (2006). Institutional research productivity and the connection to average student quality and overall reputation. *Economics of Education Review*, 25(6), 605-617.
18. Porter, S., & Umbach, P.D. (2006). College major choice: An analysis of person-environment fit. *Research in Higher Education*, 47(4), 429-449.
19. Porter, S., & Umbach, P.D. (2006). Student survey response rates across institutions: Why do they vary? *Research in Higher Education*, 47(2), 229-247.
20. Porter, S., & Whitcomb, M.E. (2005). Nonresponse in student surveys: the role of demographics, engagement and personality. *Research in Higher Education*, 46(2), 127-152.
21. Porter, S., & Whitcomb, M.E. (2005). Email subject lines and their effect on web survey viewing and response. *Social Science Computer Review*, 23(3), 380-387.
22. Porter, S., & Umbach, P.D. (2004). What works best? Collecting alumni data with multiple survey technologies. *AIR Professional File*, 90, 1-10.
23. Whitcomb, M.E., & Porter S.R. (2004). Email contacts: A test of complex graphical designs in survey research. *Social Science Computer Review*, 22(3), 370-376.
24. Porter, S. (2003). Understanding retention outcomes: Using multiple data sources to distinguish between dropouts, stopouts and transfer-outs. *Journal of College Student Retention*, 5(1), 53-70.
25. Porter, S. & Whitcomb, M.E. (2003). The impact of contact type on web survey response rates. *Public Opinion Quarterly*, 67(4), 579-588.
26. Porter, S. & Whitcomb, M.E. (2003). The impact of lottery incentives on student survey response rates. *Research in Higher Education*, 44(4), 389-407.
27. Toutkoushian, R.K., Porter, S., Danielson, C., & Hollis, P.R. (2003). Using publication counts to measure an institution's research productivity. *Research in Higher Education*, 44(2), 121-148.
28. Porter, S. (2002). Including transfer-out behavior in retention models: Using the NSC Enrollment Search data. *AIR Professional File*, 82, 1-18.
29. Porter, S. (2002). Assessing transfer and first-time freshmen student performance. *Journal of Applied Research in the Community College*, 10(1), 41-56.
30. Porter, S., & Umbach, P.D. (2002). We can't get there in time. *Planning for Higher Education*, 30(2), 35-40.
31. Umbach, P.D., & Porter, S. (2002). How do academic departments impact student satisfaction? Understanding the contextual effects of departments. *Research in Higher Education*, 43(2), 209-234.

32. Porter, S., & Umbach, P.D. (2001). Analyzing faculty workload data using multilevel modeling. *Research in Higher Education*, 42(2), 171-196.
33. Porter, S. (2000). The robustness of the graduation rate performance indicator used in the *U.S. News & World Report* college rankings. *International Journal of Educational Advancement* 1(2), 145-164.
34. Lalman D., Porter, S., Sunshine, J.H., Bushee, G.R., & Schepps B. (1998). Initial employment experience of 1996 graduates of diagnostic radiology and radiation oncology training programs. *American Journal of Roentgenology* 171(2), 301-310.

## MONOGRAPHS

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1. Porter, S. (Ed.). (2004). *Overcoming survey research problems*. New Directions for Institutional Research, no. 121. San Francisco: Jossey-Bass.

## CHAPTERS IN EDITED VOLUMES

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1. Porter, S. (2015). Quantile regression: analyzing differences in distributions instead of means. In M.B. Paulsen (Ed.), *Higher Education: Handbook of Theory and Research*. New York: Springer.
2. Porter, S., Rumann, C., & Pontius, J. (2011). Validity of student engagement survey questions: Can we accurately measure academic challenge? In S. Herzog & N. Bowman (Eds.), *Gauging academic development with student self-reported data: challenges and constraints*. New Directions for Institutional Research (pp. 87-98). San Francisco: Jossey-Bass.
3. Porter, S. (2008). Email surveys. In P.J. Lavrakas (Ed.) *Encyclopedia of survey research methods* (Vol. 1). Thousand Oaks, CA: Sage Publications.
4. Porter, S. (2008). Rare populations. In P.J. Lavrakas (Ed.) *Encyclopedia of survey research methods* (Vol. 2). Thousand Oaks, CA: Sage Publications.
5. Porter, S. (2005). What can multilevel models add to institutional research? In M.A. Coughlin (Ed.), *Applications of advanced statistics in institutional research* (pp. 110-131). Tallahassee: Association for Institutional Research.
6. Porter, S. (2005). Survey research policies: an emerging issue for higher education. In P.D. Umbach (Ed.), *Survey research: Emerging issues*. New Directions for Institutional Research, no. 127 (pp. 5-15). San Francisco: Jossey-Bass.
7. Porter, S. (2004). Pros and cons of paper and electronic surveys. In S.R. Porter (Ed.), *Overcoming survey research problems*. New Directions for Institutional Research, no. 121 (pp. 91-98). San Francisco: Jossey-Bass.
8. Porter, S. (2004). Raising response rates: what works? In S.R. Porter (Ed.), *Overcoming survey research problems*. New Directions for Institutional Research, no. 121 (pp. 5-22). San Francisco: Jossey-Bass.
9. Porter, S., & Whitcomb, M.E. (2004). Understanding the effect of prizes on response rates. In S.R. Porter (Ed.), *Overcoming survey research problems*. New Directions for Institutional Research, no. 121 (pp. 51-62). San Francisco: Jossey-Bass.
10. Porter, S., Whitcomb, M.E. & Weitzer, W.H. (2004). Multiple surveys of students and survey fatigue. In S.R. Porter (Ed.), *Overcoming survey research problems*. New Directions for Institutional Research, no. 121 (pp. 63-74). San Francisco: Jossey-Bass.
11. Porter, S. (2001). Retention research with a national database. In R. L. Swing (Ed.), *Proving and improving: Strategies for assessing the first college year* (Monograph No. 33. pp. 79-81). Columbia, SC: University of South Carolina, National Resource Center for The First-Year Experience and Students in Transition.

## COMMISSIONED AND INVITED PAPERS

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1. Porter, S.R., & Reilly, K. (2013). *Competency-based education as a potential strategy to increase learning and lower costs*. Maximizing Resources for Student Success, HCM Strategists.
2. Porter, S.R. (2013). *Federal student aid and competency-based education*. Gates Foundation.
3. Porter, S.R. (2011). *Student learning as a measure of quality in higher education*. Context for Success Project, HCM Strategists.
4. Porter, S. (2007). Writing and publishing a research paper in a peer-reviewed journal. *Journal of Applied Research in the Community College*, 14(2), 115-124.
5. Porter, S. (2003). What to ask me: The keeper of campus data can answer many questions. *Trusteeship*, 11(4), 40.

## INVITED PRESENTATIONS

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1. Takei, M., Porter, S., Umbach, P.D. and Nakano, J. (2019). Understanding themes in postsecondary research using topic modeling and journal abstracts. Workshop on Research metrics, National University of Singapore, Singapore.
2. Mathies, C., Porter, S., Umbach, P.D., Honda, K. and Takei, M. (2019). Scholarship-based performance funding policies: Do they increase faculty productivity? Centre for the Studies of Higher Education, Nagoya University, Nagoya, Japan, and Institute of Statistical Mathematics, Tachikawa, Japan.
3. Porter, S. and Smith, N.D. (2017). Do colleges misreport data to university rankings? An analysis using Benford's Law. Institute of Statistical Mathematics, Tachikawa, Japan.
4. Porter, S. (2016). Dashboards, assessment, or evaluation: where lies IR's future? Keynote presentation at the Canada Institutional Research and Planning Association/Pacific Northwest Association for Institutional Research and Planning joint conference, Kelowna, British Columbia.
5. Porter, S. (2016). Assessment versus research: How should we evaluate what we do in higher education? Presentation at the 2th ISM High Performance Computing Conference / ISM Workshop: Statistical approach for IR (Institutional Research), Tokyo, Japan.
6. Porter, S. (2016). Why response rates don't matter, why we're not measuring what we think we're measuring, and the future of college student surveys. Keynote presentation at the annual meeting of the Pacific Association for Institutional Research, Honolulu, HI.
7. Porter, S. (2015). Why response rates don't matter, why we're not measuring what we think we're measuring, and the future of college student surveys. Keynote presentation at the annual meeting of the Rocky Mountain Association for Institutional Research, Las Vegas, NV.
8. Porter, S. (2012). Modern instrumental variables: An introduction. Presentation at the Department of Counseling, Educational Psychology, and Special Education, Michigan State University.
9. Umbach, P.D. & Porter, S. (2012). The effect of low levels of student indebtedness on college outcomes. Presentation at the Department of Educational Policy, Research & Administration, University of Massachusetts Amherst.
10. Porter, S. (2012). Why assessment should be as rigorous as academic research, and how it can be. Presentation at the Southern Education Foundation's MSI Institute on Student Learning Outcomes, Atlanta, GA.
11. Porter, S. (2011). The future of college student surveys. Presentation at the Consortium on Financing Higher Education Institutional Research Conference, Georgetown University.
12. Porter, S., & Stephens, C.M. (2010). The causal effect of faculty unions on institutional decision-making. Presentation at the Department of Economics, Iowa State University.

13. Porter, S. (2009). Do college student survey questions have any validity? Presentation at the Department of Sociology, University of Waterloo.
14. Porter, S. (2008). Publishing a research paper in a peer-reviewed journal. Presentation at the meeting of the National College Learning Center Association, Memphis, TN.
15. Porter, S. (2006). Does tenure make you happy? Faculty satisfaction in institutions with and without tenure. Paper presented at the Department of Educational Policy and Leadership Studies, University of Iowa.
16. Porter, S. (2006). Does increased representation help or hurt female faculty? A multilevel analysis of research productivity and departmental context. Paper presented at the Higher Education Research Institute 40<sup>th</sup> Anniversary Symposium, University of California, Los Angeles.
17. Porter, S., & Whitcomb, M.E. (2006). Nonresponse in student surveys: the role of demographics, engagement and personality. Paper presented at the Center for Survey Statistics and Methodology, Iowa State University.

### **CONFERENCE PRESENTATIONS**

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1. Takei, M., Porter, S., Umbach, P.D. and Nakano, J. (2020). Understanding themes in postsecondary research using topic modeling and journal abstracts. 9th International Conference on Data Science and Institutional Research, Japan.
2. Mathies, C., Porter, S., Umbach, P.D., Takei, M. and Honda, K. (2020). Scholarship-based performance funding policies: Do they increase faculty productivity? Paper presented at the meeting of the Association for Education Finance and Policy.
3. Egalite, A.J., Porter, S., and Stallings, D.T. (2018). An impact analysis of North Carolina's Opportunity Scholarship Program on student achievement. Paper presented at the meeting of the Association for Education Finance and Policy, Portland, OR.
4. Weiss, S.P., Porter, S., and Stallings, D.T. (2018). Causal effects of the statewide third grade North Carolina Read to Achieve program on student outcomes: A fuzzy regression discontinuity study. Paper presented at the meeting of the Association for Education Finance and Policy, Portland, OR.
5. Smart, A., Egalite, A.J., Stallings, D.T. and Porter, S. (2017). Understanding parent choices: Who participates in an expansive and widely available statewide school voucher program and what do parents value? Poster presented at the meeting of the Association for Education Finance and Policy, Washington, DC.
6. Porter, S. and Smith, N.D. (2017). Do colleges misreport data to university rankings? An analysis using Benford's Law. 6th International Conference on Data Science and Institutional Research, Hamamatsu, Japan.
7. Weiss, S.P., Stallings, D.T., and Porter, S. (2017). Causal effects of the statewide third grade North Carolina Read to Achieve program on student outcomes: A fuzzy regression discontinuity study. Paper presented at the meeting of the Association for Education Finance and Policy, Washington, DC.
8. Porter, S. R., McEachin, A., Adams, E. L., & Walkowiak, T. A. (2017). The effect of STEM-focused teacher preparation on beginning teachers' mathematics and science instruction. Paper to be presented at the meeting of the American Educational Research Association, San Antonio, TX.
9. Walkowiak, T., Adams, B., and Porter, S. (2017). Utilizing instructional profiles to compare graduates' outcomes: A quasi-experimental evaluation of a STEM-focused elementary teacher preparation program. Paper to be presented at the meeting of the American Association of Colleges for Teacher Education, Tampa, FL.

10. Liebfreund, M., Porter, S. (2016). The impact of a diagnostic and formative assessment on elementary reading achievement. Paper presented at the meeting of the American Educational Research Association, Washington, DC.
11. Rosen, J., Porter, S., and Rogers, J. (2016). Understanding student self-reports of course-taking behavior and academic performance. Paper presented at the meeting of the American Educational Research Association, Washington, DC.
12. Starcke, M. and Porter, S. (2016). Racism and sanctions for drug violations during college: A randomized field experiment using vignettes. Paper presented at the meeting of the Association for Education Finance and Policy, Denver, CO.
13. Porter, S. and Smith, N.D. (2015). Do colleges purposely misreport data to *U.S. News* and other college rankings? Paper presented at the meeting of the Association for Education Finance and Policy, Washington, DC.
14. Porter, S. and Conzelmann, J. (2015). Strategic use of FAFSA list information by colleges and universities. Paper presented at the meeting of the Association for Education Finance and Policy, Washington, DC.
15. Porter, S., Cominole, M., & Jaquette, O. (2014). *Do community college Baccalaureate degree policies increase degree production?* Paper presented at the meeting of the Association for Education Finance and Policy, San Antonio, TX.
16. Porter, S., Cominole, M., Siegel, P., Dalton, B., & Shepherd, B. (2014). *Estimating fixed effects models with surveys using complex sampling designs.* Paper to be presented at the meeting of the American Educational Research Association, Philadelphia, PA.
17. Clayton, A. & Porter, S. (2013). *The use of field experiments in postsecondary research: A review of the literature.* Paper presented at the meeting of the Association for the Study of Higher Education, St. Louis, MO.
18. Thomson, M.M., DiFrancesca, D., McIntyre, E., Porter, S., Carrier, S. & Lowe, R. (2013). *Beliefs and knowledge: Exploring relationships between science and mathematics teaching self-efficacy beliefs, PCK and domain knowledge among preservice teachers.* Paper presented at the meeting of the American Educational Research Association, San Francisco, CA.
19. Umbach, P.D. & Porter, S. (2012). *The effect of low levels of indebtedness on low-income college students.* Paper presented at meeting of the Association for the Study of Higher Education, Las Vegas, NV.
20. Porter, S. (2012). *Learning gains across academic majors: A comparison of actual versus self-reported gains.* Paper presented at the meeting of the Association for Institutional Research, New Orleans, LA.
21. Porter, S., & Whalen, D. (2012). *Correcting institutional NSSE benchmarks for nonresponse using attitudinal data and propensity weights.* Paper presented at the meeting of the Association for Institutional Research, New Orleans, LA.
22. Umbach, P.D. & Porter, S. (2012). *The causal effect of the Pack Promise financial aid program on college outcomes.* Paper presented at the meeting of the Association for Education Finance and Policy, Boston, MA.
23. Nash, J., Hutchison, A, & Porter, S. (2011). *Advancing knowledge on the integration of information and communication technologies for learning in K-12 settings.* Paper presented at the meeting of the American Educational Research Association, New Orleans, LA.
24. Porter, S., & Ryder, A.J. (2011). *What is the appropriate time frame for measuring the frequency of educational activities?* Paper presented at the meeting of the European Survey Research Association, Lausanne, Switzerland.

25. Porter, S., & Stephens, C.M. (2010). *The causal effect of faculty unions on institutional decision-making*. Paper presented at the meeting of the Association for the Study of Higher Education, Indianapolis, IN.
26. Porter, S. (2009). *Do college student survey questions have any validity?* Paper presented at the meeting of the Association for the Study of Higher Education, Vancouver, BC.
27. Porter, S., & Ramirez, T.J. (2009). *Why do colleges fail? An analysis of college and university closings and mergers, 1975-2005*. Paper presented at the meeting of the American Educational Research Association, San Diego, CA.
28. Porter, S., & Pontius, J.L. (2008). *A cost of living index based on federal fair market rent data: methodology and validation*. Paper presented at the meeting of the Association for Institutional Research, Seattle, WA.
29. Porter, S. (2007). *Obtaining a liberal education and breadth of study: An analysis of college transcript data*. Paper presented at the meeting of the Association for the Study of Higher Education, Louisville, KY.
30. Porter, S. (2007). *Does increased representation help or hurt female faculty? A multilevel analysis of research productivity and departmental context*. Paper presented at the meeting of the Association for the Study of Higher Education, Louisville, KY.
31. Porter, S. (2007). *Obtaining a liberal education and breadth of study: An analysis of college transcript data*. Paper presented at the meeting of the Association for Institutional Research, Kansas City, MO.
32. Porter, S., Toutkoushian, R. K., & Moore, J.V. (2007). *Gender differences in salary for recently-hired faculty, 1988-2004*. Paper presented at the meeting of the Association for Institutional Research, Kansas City, MO.
33. Porter, S., & Umbach, P.D. (2007). *Perceptions of gender equity among faculty: The effect of compensation and benefits*. Paper presented at the meeting of the Association for Institutional Research, Kansas City, MO.
34. Porter, S. (2006). *Does tenure make you happy? Faculty satisfaction in institutions with and without tenure*. Paper presented at the meeting of the Association for the Study of Higher Education, Anaheim, CA.
35. Porter, S. (2006). *A closer look at faculty service: What affects participation on committees?* Paper presented at the meeting of the American Educational Research Association, San Francisco, CA.
36. Porter, S., & Feldmann, M. (2006). *Institutional isomorphism in American higher education, 1976-2003*. Paper presented at the meeting of the Association for Institutional Research, Chicago, IL.
37. Porter, S., & Longley, M. (2006). *Are student survey response rates dropping? An analysis of response rates reported in Research in Higher Education, 1973-2005*. Paper presented at the meeting of the Association for Institutional Research, Chicago, IL.
38. Porter, S., Toutkoushian, R. K., & Moore, J.V. (2005). *Gender differences in salary-at-hire for junior faculty, 1993-1999*. Paper presented at the meeting of the Association for the Study of Higher Education, Kansas City, MO.
39. Porter, S., & Umbach, P.D. (2005). *Variation in student survey response rates across institutions: Implications for understanding institutional differences*. Paper presented at the meeting of the Association for Institutional Research, San Diego, CA.
40. Pryor, J.H. & Porter, S. (2005). *The effect of alcohol use on student engagement*. Paper presented at the meeting of the Association for Institutional Research, San Diego, CA.
41. Porter, S. (2005). *Institutional structures and student engagement*. Paper presented at the meeting of the American Educational Research Association, Montreal, Canada.
42. Porter, S. (2004). *Baccalaureate institutions and the decision to pursue graduate studies in science and engineering*. Paper presented at the meeting of the Association for the Study of Higher Education, Kansas City, MO.

43. Porter, S. & Whitcomb, M.E. (2004). *Leveraging contacts in web surveys: Two experiments*. Paper presented at the 2004 meeting of the North East Association for Institutional Research, Portsmouth, NH.
44. Porter, S. (2004). *Educating future scientists: Understanding the impact of baccalaureate institution on the decision to pursue graduate studies in science and engineering*. Paper presented at the meeting of the Association for Institutional Research, Boston, MA.
45. Porter, S. & Whitcomb, M.E. (2004). *Understanding why students participate in multiple surveys: who are the hard-core responders?* Paper presented at the meeting of the Association for Institutional Research, Boston, MA.
46. Whitcomb, M.E., & Porter, S. (2003). *Email contacts: A test of complex graphical designs*. Paper presented at the meeting of the Northeast Association for Institutional Research, Newport, RI.
47. Porter, S., & Swing, R.L. (2003). *How college affects students: A multilevel analysis of the impact of institutions on persistence*. Paper presented at the meeting of the Association for Institutional Research, Tampa, FL.
48. Porter, S., & Umbach, P.D. (2003). *How do faculty spend their time? Exploring changes in faculty work in the last decade*. Paper presented at the meeting of the Association for Institutional Research, Tampa, FL.
49. Porter, S. & Whitcomb, M.E. (2003). *The impact of contact type on web survey response rates*. Paper presented at the meeting of the Association for Institutional Research, Tampa, FL.
50. Porter, S., & Toutkoushian, R. K. (2002). *Understanding the relationships between student quality, faculty productivity, and institutional reputation*. Paper presented at the meeting of the Western Economic Association International, Seattle, WA
51. Porter, S., & Umbach, P.D. (2002). *College major choice: A multilevel analysis of person-environment fit*. Paper presented at the meeting of the Association for Institutional Research, Toronto, Canada.
52. Porter, S. & Whitcomb, M.E. (2002). *The impact of contact type on web survey response rates*. Paper presented at the meeting of the Northeast Association for Institutional Research, Annapolis, MD.
53. Toutkoushian, R. K., Porter, S., Danielson, C., & Hollis, P.R. (2002). *Using publication counts to measure an institution's research productivity*. Paper presented at the meeting of the Association for Institutional Research, Toronto, Canada.
54. Porter, S. & Whitcomb, M.E. (2001). *The impact of lottery incentives on student survey response rates*. Paper presented at the meeting of the Northeast Association for Institutional Research, Boston, MA.
55. Umbach, P.D., & Porter, S. (2001). *How do academic departments impact student satisfaction? Understanding the contextual effects of departments*. Paper presented at the meeting of the Association for Institutional Research, Long Beach, CA.
56. Porter, S., & Umbach, P.D. (2001). *What works best? Collecting alumni data with multiple technologies*. Paper presented at the meeting of the Association for Institutional Research, Long Beach, CA.
57. Porter, S. (2001). *Understanding retention outcomes: Using multiple data sources to distinguish between dropouts, stopouts and transfer-outs*. Paper presented at the Second National Forum on First-Year Assessment, Houston, TX.
58. Porter, S., & Umbach, P.D. (2000). *We can't get there in time: Assessing the time between classes and classroom disruptions*. Paper presented at the meeting of the Northeast Association for Institutional Research, Pittsburgh, PA.
59. Porter, S. (2000). *Predicted retention and graduation rates as performance indicators: The neglected role of uncertainty*. Paper presented at the meeting of the Southern Association for Institutional Research, Myrtle Beach, SC.



60. Porter, S., & Umbach, P.D. (2000). *Will increasing courseloads save money? A multilevel analysis and simulation of faculty research productivity*. Paper presented at the meeting of the Southern Association for Institutional Research, Myrtle Beach, SC.
61. Porter, S., & Umbach, P.D. (2000). *Analyzing faculty workload data using multilevel modeling*. Paper presented at the meeting of the Association for Institutional Research, Cincinnati, OH.
62. Porter, S. (2000). *Can statistical modeling increase annual fund performance? An experiment at the University of Maryland*. Paper presented at the joint meeting of the Council for Advancement and Support of Education and the Association for Institutional Research, St. Louis, MO.
63. Porter, S. (2000). *Including transfer-out behavior in retention models: Using the NSLC Enrollment Search data*. Paper presented at the meeting of Association for Institutional Research, Cincinnati, OH.
64. Porter, S. (1999). *Viewing one-year retention as a continuum: The use of dichotomous logistic regression, ordered logit and multinomial logit*. Paper presented at the meeting of the Association for Institutional Research meeting, Seattle, WA.
65. Porter, S. (1999) *Assessing transfer and native student performance at four-year institutions*. Paper presented at the meeting of the Association for Institutional Research meeting, Seattle, WA.
66. Porter, S. (1999). *Including transfer-out behavior in retention models: Using the NSLC Enrollment Search data*. Paper presented at the meeting of the Northeast Association for Institutional Research, Newport, RI.
67. Porter, S. (1999). *The robustness of the graduation rate performance indicator used in the U.S. News & World Report college rankings*. Paper presented at the joint meeting of the Council for Advancement and Support of Education and the Association for Institutional Research, Washington, DC.
68. Porter, S. (1998). *Estimating the accuracy of enrollment projections: The Markov process and ratio methods compared*. Paper presented at the meeting of the Association for Institutional Research, Minneapolis, MN.

## **TEACHING**

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### **Courses**

Applied Quantitative Methods in Education I (ED 710), North Carolina State University, Fall 2017, Fall 2018, Fall 2020, Spring 2021.

Applied Quantitative Methods in Education II (ED 711), North Carolina State University, Spring 2012, Fall 2012, Spring 2019, Spring 2021.

Basic Educational Statistics (ResEv 552), Iowa State University, Fall 2005, Fall 2006, Fall 2007, Fall 2009.

Causal Inference with Observational Data (ED 795), North Carolina State University, Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020.

Educational Research (ResEv 550), Iowa State University, Spring 2006.

Intermediate Educational Statistics (ResEv 553), Iowa State University, Spring 2008, Spring 2010.

Intermediate Research Methods (ResEv 554), Iowa State University, Fall 2007, Fall 2008, Fall 2009, Fall 2010.

Project Management for Quantitative Research Projects (ED 795), North Carolina State University, Summer 2016, Summer 2017, Spring 2019.

Statistics for the Social Sciences (MTHS639), Wesleyan University, Summer 2003.

Surveys in Educational Research (ResEv 570X), Iowa State University, Spring 2006, Spring 2007, Spring 2010, Summer 2010.

## Conference workshops

1. *How to write and publish a research paper in a scholarly journal*. Half-day workshop taught at the 2005 meeting of the Association for Institutional Research, San Diego, CA; the 2006 meeting of the Association for Institutional Research, Chicago, IL; the 2007 meeting of the Association for Institutional Research, Kansas City, MO.
2. *Multilevel modeling: Understanding and applying HLM to studies of students and faculty*. One-day workshop taught at the 2003 meeting of the Association for Institutional Research, Tampa, FL; the 2002 meeting of the Association for Institutional Research, Toronto (with P.D. Umbach).
3. *Surveys of students and faculty: Using good practices and the Internet to lower costs and increase response rates*. Half-day workshop taught at the 2001 meeting of the Association for Institutional Research, Long Beach, CA; the 2000 meeting of the Northeast Association for Institutional Research, Pittsburgh, PA; the 2000 meeting of the Southern Association for Institutional Research, Myrtle Beach, SC (with P.D. Umbach).

## Invited workshops

1. *Writing good survey questions*. Taught for the Pacific Association for Institutional Research annual conference, Honolulu, HI, October 2016.
2. *Propensity score analysis*. Taught for the Canada Institutional Research and Planning Association/Pacific Northwest Association for Institutional Research and Planning joint conference, Kelowna, British Columbia, November, 2016.
3. *Faculty research development seminar: Funding from the Institute of Education Sciences*. Taught for the College of Education, University of Massachusetts Amherst, March 2012.
4. *Introduction to causal inference, or why multiple regression is like communism*. Taught for the Institute of Higher Education, University of Georgia, February 2012.
5. *Design and evaluation of survey questions*. Taught for the NASPA Assessment & Persistence Conference, Las Vegas, NV, June 2011.
6. *Design and evaluation of survey questions*. Taught for the Pennsylvania College of Technology, January 2009.
7. *Designing and implementing effective web surveys*. Taught for Academic Impressions, Inc., September 2004, February 2005, October 2006, September 2007, and September 2008.
8. *Introduction to multilevel modeling*. Taught at the Applied Statistics for Institutional Research, Planning, and Management Institute, Association for Institutional Research, Summer 2005.
9. *Regression analysis for categorical data*. Taught for the Association for Institutional Research, February 2007; the Applied Statistics for Institutional Research, Planning, and Management Institute, Association for Institutional Research, Summer 2008.

## FUNDING

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### External

1. *Understanding the effect of the North Carolina Read to Achieve Program on student outcomes*. \$249,988 research grant, Co-Principal Investigator. Institute of Education Sciences, 2016-2018.
2. *The Impact of the North Carolina Opportunity Scholarship Program on student achievement*. \$149,723 research grant, Co-Principal Investigator. Walton Family Foundation, 2016-2019.
3. *Ensuring opportunity in the NC Opportunity Scholarship*. \$32,208 research grant, Co-Principal Investigator. Z. Smith Reynolds Foundation, 2014-2017.

4. *First in the World project evaluation, Southern New Hampshire University*. \$153,936 research grant, Principal Investigator. U.S. Department of Education, 2015-2018.
5. *The Northeast Leadership Academy 2.0: Developing and sustaining effective leaders for high-need rural schools*. \$4,742,038 program grant, Co-Principal Investigator. U.S. Department of Education, 2014-2015.
6. *Project ATOMS: Accomplished elementary teachers of mathematics and science*. \$3,110,998 research grant, Co-Principal Investigator. National Science Foundation, 2012-2016.
7. *Causal inference for complex longitudinal data*. \$76,894 contract, Principal Investigator. RTI International, 2013-2014.
8. *Annual student services expenditure survey study*. \$100,000 research grant, Principal Investigator. Lumina Foundation for Education, 2010-2011.
9. *Early Childhood Services Early ACCESS survey project*. \$42,027 contract, Principal Investigator. Iowa Department of Education, 2010-2011.
10. *ASHE/Lumina Fellows program*. \$900,000 program grant, Co-Principal Investigator. Lumina Foundation for Education, 2006-2010.
11. *Obtaining a liberal education and breadth of study: An analysis of college transcript data*. \$29,972 research grant, Principal Investigator. Association for Institutional Research, 2006-2007.
12. *Educating future scientists: Understanding the impact of baccalaureate institution on the decision to pursue graduate studies in science and engineering*. \$27,500 research grant, Principal Investigator. Association for Institutional Research, 2003-2004.

## Internal

1. *Advancing knowledge on the integration of information and communication technologies for learning in K-12 settings*. \$24,678 research grant, Co-Principal Investigator. College of Human Sciences Intramural Collaborative Seed Grant, 2011-2012 (PI: J. Nash; Co-PI: A. Hutchison).
2. *Strengthening research & evaluation in the human sciences*. \$38,821 program grant, Co-Principal Investigator. College of Human Sciences Teaching Innovation Initiative, 2008-2010 (PI: R. Gildersleeve).

## AWARDS AND HONORS

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Outstanding Reviewer Award, *Educational Evaluation and Policy Analysis*, 2018.

Early Achievement in Research Award, 2007, College of Human Sciences, Iowa State University.

Charles F. Elton Best Paper Award, 2004 and 2012 meetings of the Association for Institutional Research.

NEAIR Best Paper Award, 1999 and 2002 meetings of the Northeast Association for Institutional Research.

NEAIR Best Paper Award, 1999 meeting of the Northeast Association for Institutional Research, Newport, RI.

Fellow, Summer Research Training Institute: Cluster Randomized Trials. Institute for Education Statistics, July 2010, Evanston, IL.

Fellow, Using the 1988 National Education Longitudinal Study Database for Research and Policy Institute. National Center for Education Statistics, May 2003, Potomac, MD.

Fellow, Institute on the Databases of the National Science Foundation. Association for Institutional Research/National Science Foundation, June 1999, Arlington, VA.

## SELECTED PROFESSIONAL SERVICE

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Editorial board member, *Journal of Higher Education*, 2013 to present.  
Editorial board member, *Journal of Research on Educational Effectiveness*, 2013 to present.  
Editorial board member, *Research in Higher Education*, 2003 to present.  
Editorial board member, *American Educational Research Journal*, 2014-2016.  
Editorial board member, *Educational Evaluation and Policy Analysis*, 2016-2018.  
Editorial board member, *Journal of College Student Development*, 2006-2009.  
Editorial board member, *Review of Higher Education*, 2008-2013.

Manuscript reviewer for *Addiction*, *Addiction Research and Theory*, *American Educational Research Journal*, *AERA Open*, *Asia Pacific Education Review*, *Canadian Journal of Behavioral Science*, *Canadian Journal of Higher Education*, *Child Development*, *Economics of Education Review*, *Education Economics*, *Educational Evaluation and Policy Analysis*, *Education Finance and Policy*, *Educational Policy*, *Educational Research*, *Educational Research and Evaluation*, *Educational Researcher*, *Emerging Adulthood*, *Evaluation and Program Planning*, *Field Methods*, *Higher Education*, *Higher Education: Handbook of Theory and Research*, *Higher Education Pedagogies*, *Higher Education Policy*, *Higher Education Research & Development*, *International Journal of Public Opinion Research*, *International Journal of Science Education*, *International Journal of Institutional Research and Management*, *International Journal of Social Research Methodology*, *International Review of Economics Education*, *Journal of College Student Development*, *Journal of Diversity in Higher Education*, *Journal of Engineering Education*, *Journal of the First-Year Experience*, *Journal of Higher Education*, *Journal of International Development*, *Journal of Medical Internet Research*, *Journal of Official Statistics*, *Journal of Pediatric Neuropsychology*, *Journal of Research on Educational Effectiveness*, *Learning and Individual Differences*, *Police Practice and Research*, *Psychological Reports*, *Public Opinion Quarterly*, *Research in Higher Education*, *Review of Higher Education*, *Review of Educational Research*, *Social Problems*, *Social Science Computer Review*, *Social Science Information*, *Sociological Forum*, *Sociological Methods and Research*, *Sociological Quarterly*, *Sociology of Education*, *Statistics Education Research Journal*.

Reviewer, Unsolicited grant applications, Institute of Education Sciences, Department of Education, 2019.  
Chair, Pathways to the Education Sciences Research Training Program grant review panel, Institute of Education Sciences, Department of Education, 2017.  
Chair, College Completions Network grant review panel, Institute of Education Sciences, Department of Education, 2015.  
Chair, Education Systems and Broad Reform grant review panel, Institute of Education Sciences, Department of Education, 2012-2015.  
Principal member, Education Systems and Broad Reform grant review panel, Institute of Education Sciences, Department of Education, 2009-2012.  
Rotating member, Education Systems and Broad Reform grant review panel, Institute of Education Sciences, Department of Education, 2008-2009.  
Member, Discovery Research K-12 grant review panel, National Science Foundation, 2013.  
Member, Biomedical Career Interventions grant review panel, National Institutes of Health, 2012.  
Grant proposal reviewer, Measurement, Methodology and Statistics Program, Directorate of Social, Behavioral & Economic Sciences, National Science Foundation, 2006, 2011.  
Grant proposal reviewer, Science of Science & Innovation Policy Program, Directorate of Social, Behavioral & Economic Sciences, National Science Foundation, 2009.  
Member, For-Profit Working Group, B labs, 2014-2015.  
Consultant, Advisory Committee on Student Financial Assistance, 2010-2011.

## **INSTITUTIONAL SERVICE**

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### **North Carolina State University**

Member, University Group Insurance and Benefits Committee, 2014-2017, 2020-present.  
Chair, University Group Insurance and Benefits Committee, 2016-2017.  
Member, University Hearing (603) Committee, 2016-2019.  
Member, University International Programs Committee, 2019-present.  
Member, University Research Committee, 2016-2020.  
Faculty Senator, 2015-2016.

### **North Carolina State University, College of Education**

Coordinator, Graduate Research Methods, 2011-2014.  
Member, Reappointment, Promotion and Tenure Committee, 2013-2016.  
Member, Research Committee, 2015-2017.  
Member, Computer and Technology Committee, 2011-2014.  
Member, PhD redesign committee 2012-2014.  
Co-chair, PhD redesign impact strand task force, 2013-2014.  
Member, CED University Faculty Scholar committee, 2013-2015.  
Member, Interim Associate Dean for Academic Affairs search committee, 2013.  
Member, Educational Psychology assistant professor search committee, 2011.

### **North Carolina State University, Department of Educational Leadership, Policy, and Human Development**

Member, ELPHD Budget Committee, 2019-2020.  
Member, LPAHE RPT Revisions Committee, 2013-2014.  
Chair, ERPA K-12 assistant professor search committee, 2013.  
Member, LPAHE Travel Committee, 2013.

### **Iowa State University**

Faculty Senator, 2007-2010.  
Member, Governance Council, 2007-2010.  
Member, Governance and Documents Committee, 2007-2008.  
Member, University Compensation and Benefits Committee, 2008-2011.

### **Iowa State University, College of Human Sciences**

Chair, Outcomes Assessment Committee, 2007-2008.  
Member, Outcomes Assessment Committee, 2005-2011.

### **Iowa State University, Department of Educational Leadership and Policy Studies**

Program Coordinator, Research and Evaluation Program, 2007-2008.  
Co-Program Coordinator, Research and Evaluation Program, 2005-2006.  
Member, Assessment Committee, 2005 to 2009.

Member, Budget Committee, 2006-2007, 2009-2011.  
Member, Computer Advisory Committee, 2009-2011.  
Member, Research Committee, 2005-2006.  
Member, Director of Research Institute for Studies in Education Search Committee, 2007.  
Co-Chair, Assistant Professor of Educational Research Search Committee, 2006.  
Faculty Mentor for John Nash, 2009-2011.  
Faculty Mentor for Soko Starobin, 2008-2011.

## **MENTIONS IN MEDIA**

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*Chronicle of Higher Education*, Sep. 28, 2007; Nov. 7, 2009; Nov. 15, 2010; Jan. 9, 2011; May 1, 2011, Oct. 6, 2011; Apr. 5, 2013; Oct. 7, 2013; Nov. 20, 2014.  
*Inside Higher Ed*, Apr. 10, 2006; Nov. 9, 2007; Jun. 19, 2008; Apr. 17, 2009; Nov. 9, 2009; Nov. 24, 2009; Apr. 7, 2011; Oct. 22, 2012; Nov. 19, 2012; Mar. 25, 2014; Aug. 18, 2014; Aug. 26, 2014; Feb. 25, 2015; Mar. 21, 2016.  
*Los Angeles Times*, Mar. 18, 2016.  
*NBC News website*, Nov. 8, 2017.  
*University Business*, Jan. 2011.  
*USA Today*, Nov. 9, 2009.