

## ABBREVIATED CURRICULUM VITAE

SANDRA L. DIKA  
Department of Educational Leadership  
University of North Carolina at Charlotte  
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### EDUCATION AND PROFESSIONAL CREDENTIALS

Ph.D.	2003	Virginia Tech	Educational Research and Evaluation
M.Sc.	1996	University of Alberta (Canada)	Human Ecology
B.Ed.	1993	University of Alberta (Canada)	Elementary Education (with honors)

### PROFESSIONAL EXPERIENCE

2010-Present    Assistant and Associate Professor of Educational Leadership (Research Methods)  
University of North Carolina at Charlotte

Tenured and promoted to Associate Professor in July 2016  
Affiliate faculty to the Center for Educational Measurement & Evaluation and  
the Urban Education Collaborative

**Responsibilities:** Teach masters and doctoral courses in research methods.  
Engage in scholarly research activities on college access and success, specifically  
for underserved and marginalized populations. Serve on dissertation and other  
institutional and professional committees.

**Awards and Recognition:** 2014 College of Education Excellence in Research  
Award; 2011 National Summer Data Policy Institute Fellow

2003-2009        Assistant Research Professor (2003-2009); Assistant Professor of Research  
Methods (2009-2010)  
University of Puerto Rico-Mayaguez

**Responsibilities:** Coordinated College of Engineering assessment and  
accreditation efforts; led institutional assessment task force; coordinated annual  
surveys and national project participation; provided research and evaluation  
consultation to externally funded research; taught upper level undergraduate  
courses in social research methods; conducted research as part of Center for  
Applied Social Research and Center for University Access.

2004-2006        Research and Evaluation Specialist  
Education Alliance at Brown University

**Responsibilities:** Coordinated the US Virgin Islands Accountability Initiative  
(\$1.5M project), including coordination of three local task forces, national  
experts, and test publisher to develop grade-level standards in Language Arts and  
Mathematics, aligned assessments, and territory-level accountability plan.

1999-2003 Graduate Research Assistant and Visiting Assistant Professor in Educational Leadership & Educational Research  
Virginia Tech

**Responsibilities:** Conducted national study on appointment practices to higher education governing boards (published in *Quality in Higher Education*). Coordinated activities and provided on-site assistance for annual Educational Leadership Institute at Oxford University. Developed comprehensive literature review of social capital in education (published in *Review of Educational Research*). Developed questionnaire to study social networks and science education experiences of high school students. Taught masters and doctoral level courses in statistics and research methods (2002-2003).

**Awards & Recognition:** Graduate Studies Commencement invited speaker, 2003; Outstanding Graduate Student in Human Sciences & Education, 2003; McComas-Chambless Scholarship in Educational Leadership & Policy Studies, 2002; Social Sciences and Humanities Research Council of Canada Doctoral Fellowship, 2000-2002

## RESEARCH

### Selected Publications

- Dika, S. L., & D'Amico, M. M. (2016). Early experiences and integration in the persistence of first- generation college students in STEM and non-STEM majors. *Journal of Research in Science Teaching*, 53, 368-383. doi:10.1002/tea.21301
- Dika, S. L., Alvarez, J., Santos, J., & Suarez, O. M. (2016). A social cognitive approach to understanding engineering career interest and expectations among underrepresented students in school-based clubs. *Journal of STEM Education*, 17(1), 31-36. Retrievable from <http://www.jstem.org>
- Dika, S. L., Siazynski-Ferrer, K., Galloway, K., & D'Amico, M. M. (2015). Predicting the persistence of undeclared first-year and transfer students. *Journal of College Orientation and Transition*, 22(2), 23-39.
- Dika, S. L. (2014). The role of socioeconomic factors in the prediction of persistence in Puerto Rico. *Journal of College Student Retention: Research, Theory, and Practice*, 16, 111-125. doi:10.2190/CS.16.1.f
- D'Amico, M. M., Dika, S. L., Elling, T. W., Algozzine, B., & Ginn, D. (2014). Early integration and other outcomes for community college transfer students. *Research in Higher Education*, 55, 370-399. doi: 10.1007/s11162-013-9316-5
- D'Amico, M. M., & Dika, S. L. (2013/2014). Using data known at the time of admission to predict first-generation college student success. *Journal of College Student Retention: Research, Theory, and Practice*, 15, 173-192. doi: 10.2190/CS.15.2.c
- Byrd, W. C., Dika, S. L., & Ramlal, L. (2013). Who's in STEM? An exploration of race, ethnicity, and citizenship reporting in a federal education dataset. *Equity & Excellence in Education*, 46(4), 484-501. doi:0.1080/10665684.2013.838485
- Dika, S. L. (2012). Relations with faculty as social capital for college students: Evidence from Puerto Rico. *Journal of College Student Development*, 53, 596-610. doi: 10.1353/csd.2012.0051

- Singh, K., Chang, M., & Dika, S. L. (2010). Ethnicity, self-concept, and school belonging: Effects on school engagement. *Educational Research for Policy and Practice*, 9(3), 159-175. doi:10.1007/s10671-010-9087-0
- Singh, K., Chang, M., & Dika, S. L. (2007). Effects of part-time work on school achievement during high school. *Journal of Educational Research*, 101, 12-23.
- Singh, K., & Dika, S. (2003). The educational effects of rural adolescents' social networks. *Journal of Research in Rural Education*, 18, 114-128.
- Dika, S. L., & Singh, K. (2002). Applications of social capital in educational literature: A critical synthesis. *Review of Educational Research*, 72, 31-60.
- Singh, K., Granville, M., & Dika, S. (2002). Mathematics and science achievement: Effects of motivation, interest, and academic engagement. *Journal of Educational Research*, 95, 323-332.

### **Selected Conference Presentations**

- Dika, S. L., Pando, M. A., & Tempest, B. Q. (2016, June). *Investigating the role of interaction, attitudes, and intentions for enrollment and persistence in engineering among underrepresented minority students*. Proceedings of the 2016 American Society of Engineering Education conference, New Orleans, LA (Paper #17069).
- Dika, S. L., Pando, M. A., Tempest, B. Q., & Allen, M. E. (2015, November). *Examining how students of color draw on aspirational, familial, and social capital to successfully persist in engineering*. Paper presentation at the annual Association for the Study of Higher Education conference, Denver, CO.
- Dika, S. L., Pando, M. A., Tempest, B. Q., Foxx, K. A., & Allen, M. E. (2015, October). *Engineering self-efficacy, interactions with faculty, and other forms of capital for underrepresented engineering students*. Proceedings of the 2015 IEEE Frontiers in Education conference, El Paso, TX (<http://fie-conference.org/>)
- Dika, S. L., Allen, M. E., & Foxx, K. A. (2015, February). *Examining engineering self-efficacy based on gender and class level*. Paper presentation at the annual North Carolina Association for Research in Education conference, Winston-Salem, NC.
- Dika, S. L., & D'Amico, M. M. (2014, November). *A quantitative case study of background factors and early experiences in the persistence of first-generation college students in STEM and non-STEM majors*. Paper presentation at the annual Association for the Study of Higher Education conference, Washington, DC.
- Dika, S. L., Pando, M. A., Tempest, B. Q., & Foxx, K. A. (2014, November). *Expectations and interactions with faculty among first-year Black and Latino engineering students*. Poster presentation at the annual Association for the Study of Higher Education conference, Washington, DC.
- Dika, S. L., Pando, M. A., Tempest, B. Q. (2014, June). *Pre-college interactions, early expectations, and perceived barriers: Are there differences for underrepresented engineering students?* Proceedings of the 2014 American Society of Engineering Education conference, Indianapolis, IN (Paper 10893).
- Dika, S. L. (2013, November). *Factor analysis of the dimensions of student engagement in the Spanish translation of the National Survey of Student Engagement (NSSE)*. Poster presentation at the annual Association for the Study of Higher Education conference, St. Louis, MO.

Dika, S. L., & Lim, J. H. (2012, June). *Critical review of research on the role of social engagement in engineering students' retention and academic success*. Proceedings of the 2012 American Society of Engineering Education conference, San Antonio, TX (Paper AC 2012-3276).

## **SELECTED SERVICE/ENGAGEMENT/OUTREACH**

### **Service to the University**

- Leadership
  - Vice Chair, College of Education Faculty Council (2016-2017)
  - Chair, Department of Educational Leadership Legacy for Leadership Award Committee (2011-2012)
  - Coordinator, Department of Educational Leadership Faculty Research Colloquium (2011-2012)
- Elected/appointed representative
  - Departmental Review Committee (2016-2018)
  - College of Education Faculty Council (2015-2017)
  - University Faculty Council (2012-2014)
  - University Faculty Competitive Grants Committee (2012-2014)
  - Undergraduate Research Conference Organizational Committee (2012-2015)
- Other committees and project affiliations
  - Academy for Research on Community Health, Engagement and Services (ARCHES)
  - ADVANCE mentoring program
  - Latinx/Hispanic Faculty-Staff Caucus
  - Safe Zone Ally
  - Urban Education Collaborative

### **Service to the Profession**

2014-present Editorial board member, *Journal of Applied Educational and Policy Research*

2012-present North Carolina Association for Research in Education (NCARE)

- President (2016-2017)
- President Elect and program chair for annual meeting (2015-2016)
- Secretary (2013-2015)
- At-Large Board Member (2012-2013)

2010-present Manuscript review for academic journals

- *Journal of Critical Thought and Praxis* (2014-present)
- *Sociology of Education* (2009-present)
- *Journal of College Student Development* (2010-present)

2006-present Proposal/abstract review for professional association conferences

- American Educational Research Association (2006-2012)
- American Society of Engineering Education – Educational Research and Methods Division (2011-present)
- Association for the Study of Higher Education and the Council on Ethnic Participation (2012-present)