*Curriculum Vitae*

**ANN A. O'CONNELL, Ed.D**
College of Education and Human Ecology
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*EDUCATION AND PROFESSIONAL EXPERIENCE*

## Education

Ed.D. in *Measurement and Evaluation,* October, 1993: Teachers College, Columbia University, New York, New York.

M.S. in *Statistics*, 1985: University of Connecticut, Storrs, Connecticut.

B.A. in *Mathematics*, 1983: Western New England College, Springfield, Massachusetts.

## Academic/Professional Appointments

*Professor*, October 2011 – present. The Ohio State University, Department of Educational Studies, Quantitative Research, Evaluation, and Measurement program, College of Education and Human Ecology (EHE). *Founder and Coordinator* Graduate Interdisciplinary Specialization in Quantitative Research Methods (GISQRM); *Faculty Affiliate*, Global One Health initiative (GOHi) and Translational Data Analytics Institute (TDAI); *Faculty Associate*, Center for Educational Training and Employment (CETE).

*Program Chair*, August 2020 – present. Program in Quantitative Research, Methods, and Evaluation (QREM). Department of Educational Studies, College of Education and Human Ecology, OSU.

*Director*, August 2015 – 2018. Founding Director, Research Methodology Center (now Quantitative Methodology Center), College of Education and Human Ecology, OSU. Initiated and directed capacity-building in methodology (quantitative, qualitative, mixed) via methodology and software workshops; lectures (invited speakers); development of online content and methodology resources; and programming and professional development opportunities for faculty and graduate students. Organized OSU-wide *Interdisciplinary Methods Festival* (2017); established College-wide statistical consulting services for research design, data/analysis, and grant supports.

*Fulbright Scholar*, *Ethiopia*, August 2013 – February 2014 and May, 2014. Addis Ababa University (AAU), College of Education and Behavioral Studies. Focus on research/methodology capacity-building. Teaching and mentoring PhD students and university staff at AAU; additional workshops offered at University of Gondar, Mekelle University, and Jimma University. Methodology courses (modular) included introductory statistics/SPSS, multivariate analysis, multilevel analysis/HLM, regression, causality, and power analysis/sample design.

*Associate Professor*, August 2007-2011. The Ohio State University, College of Education and Human Ecology, Department of Educational Policy and Research (now Educational Studies).

*Associate Professor,* August 2001-2007. University of Connecticut, College of Education, Department of Educational Psychology

*Assistant Professor*, August 1999 to 2001. University of Connecticut, College of Education, Department of Educational Psychology (tenured August 2001).

*Assistant Professor*, University of Memphis, Educational Psychology and Research, August 1993 to 1999.

*Behavioral Statistician*, Behavioral Interventions Research Branch, Division of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention, Centers for Disease Control and Prevention (CDC), Atlanta, GA. (Interagency Professional Agreement (IPA)), August 1995 to August 1997.

*Adjunct Instructor*, Graduate level: Applied Regression Analysis; and Educational Statistics.
*Teachers College, Columbia University*, Spring semesters of 1992 and 1993.
*New York University*, September 1991 to December 1992.

*Adjunct Instructor*, Undergraduate level in Developmental Mathematics, Mathematics and/or Statistics: Hunter College, New York, New York. August 1991 to August 1993. Marymount College, Tarrytown, New York. June 1992 to December 1992. Borough of Manhattan Community College, New York. January 1990 to July 1991. Saint Francis College, Brooklyn, New York. Summer 1990 and 1991.

*Test Research and Analysis Consultant*, Office of Research and Educational Assessment, New York City Board of Education, Brooklyn, New York. Summer, 1990: Analyzed citywide results on the DRP, MAT-Math, and MAT-reading tests; Reliability analysis of Spanish version of WISC-R.

*Volunteer Tutor*, East Harlem Tutorial Program, New York, New York. October 1989 to June 1992: Tutor and Programming Committee member; evaluator for EHTP's tutoring program during 1991/92.

*United States Peace Corps Volunteer*, Tanzania, East Africa. April 1987 to June 1989: Mathematics teacher at Mazengo Secondary Technical School for Boys, and Andrea Mwaka School, both in Dodoma, Tanzania. Syllabus taught included Geometry, Algebra, Trigonometry, Calculus, Differential Equations, Numerical Analysis, and Probability and Statistics.

*Reliability Engineer*, United Technologies' Hamilton Standard Division, Electrical Design Group, Farmington, Connecticut. May 1985 to March 1987. Developed test plans and prepared reports for reliability testing of government contracted electronic equipment.

## Editorships and Editorial Boards

*Ethiopian Journal of Educational and Behavioral Studies*. Editorial board, 2019 – present.

*Methods in Psychology*. Editorial Board. 2019 – present (online journal).

Executive Editor: *Journal of Experimental Education*, Section on Measurement, Statistics and Research Design. January 2014 – January 2018.

Editorial Board: *Journal of Experimental Education*, September, 2009 – 2014; 2018-present.

Editorial Board: *Journal of Advanced Academics.* September 2006 to 2011.

Editorial Board: *Journal of Primary Prevention*, Two-year appointment, September 2007 - 2009.

Consulting Editor: *Journal of Educational Research*, September, 2006 - 2010.

Editorial Board: *Psychological Methods*, Two-year appointment, August 2007 - 2009.

Editorial Board: *Journal of HIV/AIDS Prevention & Education for Adolescents & Children.* Four-year term, September 2004 to 2008.

## Awards/Honors

Fulbright Scholar, Ethiopia, Addis Ababa University (7 months) 2013-2014.

Recipient, *Educational Statisticians' Outstanding Service Award*. American Educational Research Association, April, 2014.

Recipient, *Lorne H. Woolatt Distinguished Paper Award*, Northeastern Educational Research Association (NERA), with Jessica Goldstein (graduate student), 2004.

Honorable Mention, *Research Brief* on Ability Grouping in Kindergarten; National Association for Gifted Children, with D. Betsy McCoach (graduate student), 2002.

Recipient, *College of Education Outstanding Award for Research*, 1999. University of Memphis.

*Volunteer of the Month*, December 1995: Friends for Life HIV Resources, Memphis, TN.

Nominated, *College of Education Teaching Award*, 1994. University of Memphis.

## Credit Courses Taught

Multilevel Modeling/HLM; Regression Analysis; Categorical Data Analysis; Introductory Statistics; Univariate Experimental Design; General Linear Models I and II; Multivariate Analysis; Sampling and Survey Research Methods; Program Evaluation; Educational Research Methods; Seminar on Interdisciplinary Quantitative Methods; Seminar on Big Data/Data Science in Education.

## Workshops Conducted/Invited Webinars*

*Multivariate Methods Seminar*. Virtual seminar (biweekly) for Addis Ababa University doctoral program in Measurement and Assessment, Ethiopia, Autumn 2021. Co-Instructor: Kassa Michael, AAU.

**REL Appalachia Webinar.* Invited presentation: More Research Needed: How to Build an Evidence-base for Interventions to Support Post-secondary Transitions in Rural Settings. Presented September 23, 2021. Presentation and recording available at: https://go.osu.edu/appalachia_rel_postsec

*Perspectives on Quantitative Methods and Social Justice.* AA O'Connell, D. Gallant, T. Stuckey, M. Kim & J. Logan. Diversity lecture, Department of Educational Studies, February 2021.

*Analysis of Complex Survey Data.* Virtual workshop for Statistical Horizons, October 8 – 10, 2020

*Multilevel Profile Analysis Webinar.* Workshop to the Danish SPELL Research Group, March 29, 2020.

*Data Science Principles.* Workshop to the Supreme Court of Ohio Judicial College, February 14, 2020.

*Introduction to Multilevel Modeling using SPSS.* Addis Ababa University, Ethiopia, College of Education and Behavioral Studies, full-day, March 16, 2019.

*Generalized Linear Models.* Addis Ababa University, Ethiopia, College of Public Health, Black Lion Hospital, OSU Global One Health Summer Institute. 2.5 days. June 2018.

*Value-added Models: A Workshop for Higher-Education Faculty.* Ohio University and OSU Joint Workshop, OU Dublin Campus. April 2018.

*Gearing Up 4 your Grant Proposal (GU4GP).* EHE Research Methodology Center workshop; ten 2-hour workshops in a series on IES grant submissions. AA. O'Connell, S. Piasta & J. Logan. Autumn/spring 2018-19.

*Analysis Methods for Clustered and Hierarchical Data.* EHE Research Methodology Center. A.A. O'Connell & James Uanhoro (graduate student). Two-day workshop at OSU campus. April 2018

*Study Designs and Sample Size Estimation for Population Studies*. Addis Ababa University, Ethiopia. Aklilu Lemma Institute for Pathobiology, OSU Global One Health Summer Institute. September 2017.

*Generalized Linear Mixed Models.* A.A. O'Connell & Gloria Yeomans-Maldonado (graduate student). Two-day workshop for the *Data Analysis and Training Institute at Connecticut* (DATIC). June 2016.

*Hierarchical Linear Modeling*. A.A. O'Connell and D.B. McCoach. Annual five-day workshops for the *Data Analysis and Training Institute at Connecticut* (DATIC). Annually, June 2004 – June 2016.

*HLM: A Gentle Introduction.* D.B. McCoach & A.A. O'Connell, AERA Professional Development Workshops. Annual pre-conference workshop. Offered annually April 2011 – April 2016.

*Logistic and Ordinal Regression*. Nationwide Children's Hospital, Center for Biobehavioral Health, Columbus OH. Professional development workshop, June 2015.

*Multilevel Modeling*, Nationwide Children's Hospital, Center for Biobehavioral Health, Columbus OH. Professional development workshop for postdoctoral researchers, faculty, and research scientists, February 2015.

*Regression Analysis,* Invited professor, one-week mini-course, Addis Ababa University, Ethiopia. April, 2015.

*Hierarchical Linear Models Workshop for Education Researchers.* AA O'Connell & L. Porter (graduate student), at Miami University (Oxford, Ohio). Two-day workshop for faculty, research staff, and postdoctoral students for the College of Education, Health, and Society February 28 and March 7, 2014.

*Multilevel Modeling.* One-day workshop on multilevel modeling/HLM for students and faculty in the Department of Educational Studies, OSU. Spring, 2014.

*Multilevel Modeling.* Crane Center for Early Childhood Research and Policy. One-day workshop on multilevel modeling/HLM for postdoctoral students and Center researchers, February 21, 2014.

*Seminar on Structural Equation Modeling and HLM*. AA O'Connell & R Lomax. Office of Research, OSU. Invited workshop for EHE/College community, Spring, 2014.

*Regression and Multivariate Analysis.* Invited professor, two-week block course for Regression and Multivariate Analysis. Addis Ababa University, Ethiopia. October 15-26th, 2012.

*Multilevel Modeling Basics.* A.A. O'Connell and W. Ren (graduate student). *Ohio Program Evaluators' Group (OPEG).* Full-day workshop for OPEG members on multilevel modeling, August 18, 2009.

*Hierarchical Linear Models I and II. OSU College of Social Work.* Two half-day workshops on hierarchical linear modeling (HLM) for faculty and graduate students of OSU College of Social Work by invitation through the Dean for Research and Faculty Development: December 5, 2007; February 13, 2008.

*Hierarchical Linear Modeling.* AA O'Connell & DB McCoach. *The College Board*, New York, NY. Spring 2007. Conducted a series of five full-day on-site training workshops for research staff of the College Board.

## *PUBLICATIONS*

### I. Books

O'Connell, A.A., McCoach, D.B., & Bell, B. (Eds.) (in press). *Multilevel Modeling Methods with Introductory and Advanced Applications.* Charlotte, NC: Information Age Publishing.

O'Connell, A.A. & McCoach, D.B. (Eds.) (2008). *Multilevel Modeling of Educational Data*. Charlotte, NC: Information Age Publishing.

O'Connell, A.A. (2006). *Logistic Regression Models for Ordinal Response Variables*. Quantitative Applications in the Social Sciences. Thousand Oaks, CA: Sage Publications.

### II. Book Chapters

O'Connell, A.A., Lo, M-T., Goldstein, J., Rogers, H.J., & Peng, C.J. (in press). Multilevel models for logistic and ordinal outcomes. In A.A. O'Connell, D.B McCoach, & B.A. Bell (Eds.), *Multilevel Modeling Methods with Introductory and Advanced Applications.* Information Age Publishing.

O'Connell, A.A., Bhaktha, N. & Zhang, J. (in press). Multilevel models for count outcomes. In A.A. O'Connell, D.B McCoach, & B.A. Bell (Eds.), *Multilevel Modeling Methods with Introductory and Advanced Applications.* Information Age Publishing.

O'Connell, A.A., McCoach, D.B. & Bell, B.A. (in press). Introduction to multilevel modeling methods. In A.A. O'Connell, D.B McCoach, & B.A. Bell (Eds.), *Multilevel Modeling Methods with Introductory and Advanced Applications.* Information Age Publishing.

Lo, M-T, Mauck, S., Bhaktha, N., Reed, S., & O'Connell, AA. (*in press*) Power and evidence: Guide for sample size estimation. *Psychological Methodology Handbook*. Sage.

O'Connell, A.A. & Amico, K.R. (*2019*). Logistic Regression. In G. R. Hancock and R. O. Mueller (Eds.), *The Reviewer's Guide to Quantitative Methods in the Social Sciences (2nd ed.).* NY: Routledge.

O'Connell, A.A, Yeomans-Moldanado, G. & McCoach, D.B. (2016). Residual diagnostics and model assessment in a multilevel framework: Recommendations toward best practice. In J. Harring, L. Stapleton & S.N. Beretvas (Eds.), *Advances in Multilevel Modeling*. Charlotte, NC: Information Age Publishing.

O'Connell, A.A., Logan, J., Pentimonti, J. & McCoach, D.B. (2013). Linear and Quadratic Growth Models for Continuous and Dichotomous Outcomes. In Y. Petscher & C. Schatschneider (Eds.). *Applied Quantitative Analysis in the Social Sciences,* NY: Routledge.

McCoach, D.B., Madura, J., Rambo, K., O'Connell, A.A. & Welsh, M. (2013). Longitudinal data analysis. In T. Teo (Ed.), *Handbook of Quantitative Methods for Educational Research.* Sense Publications.

O'Connell, A.A. & Amico, K.R. (2010). Logistic Regression. In G. R. Hancock and R. O. Mueller (Eds.), *The Reviewer's Guide to Quantitative Methods in the Social Sciences.* NY: Routledge.

Snyder, L. & O'Connell, A.A. (2008). Event History Analysis for Communications Research. In M.D. Slater, A.F. Hayes, and L. B. Snyder, (Eds.), *Sage Handbook of Advanced Data Analysis Methods for Communication Research.* Thousand Oaks, CA: Sage.

O'Connell, A.A., Goldstein, J., Rogers, J. & Peng, C.J. (2008). Multilevel Logistic Models for Dichotomous and Ordinal Data. In A. A. O'Connell and D. B. McCoach (Eds.). *Multilevel Modeling of Educational Data*. Charlotte, NC: Information Age Publishing.

O'Connell, A.A. & McCoach, D.B. (2008). Introduction: Pedagogy and Context for Multilevel Modeling. In A. A. O'Connell and D. B. McCoach (Eds.). *Multilevel Modeling of Educational Data*. Charlotte, NC: Information Age Publishing.

## III. Peer-reviewed Publications

Language and Reading Research Consortium, Lo, M., & Xu, M. (*in press*). Impacts of the Let's Know! curriculum on the language and comprehension-related skills of prekindergarten and kindergarten children. *Journal of Educational Psychology*.

Desie, Y., O'Connell, A.A., Michael, K., & Wiium, N. (2021). Parenting of schoolchildren's television viewing in Addis Ababa, Ethiopia, *Journal of Children and Media, 15*(4), 492-508.

Yeomans-Maldonado, G., Mesa, C., and LARRC (2021). The association of the home literacy environment and parental reading beliefs with oral language growth trajectories of Spanish-English bilingual children. *Early Childhood Research Quarterly, 57*(4), 271-284).

Piasta, S.B., Sawyer, B., Justice, L.M., O'Connell, A.A., Jiang, Hui, Dogucu, M., & Khan, K. (2020). Effects of *Read It Again!* in early childhood special education classrooms. *Journal of Early Intervention,* 42(3), 224-243. (*online 1st in 2019*).

Sawyer, B., O'Connell, A.A., Bhaktha, N., Santoro, J., Justice, L., & Rhoad-Drogalis, A. (2020). Does teachers' self-efficacy vary for different children? A study of early childhood special educators. *Topics in Early Childhood Special Education*. https://doi.org/10.1177/0271121420906528

Piasta, S.B., Farley, K.S., Mauck, S.A., Soto Ramirez, P., O'Connell, A.A., Schachter, R.E., Justice, L.M., Spear, C.F., & Weber-Mayrer, M. (2020). At-scale, state-sponsored language and literacy professional development: Impacts on early childhood practices and children's outcomes. *Journal of Educational Psychology, 112*(2), 329-343. (*online 1st in 2019*).

Piasta, S.B., Park, S., Farley, K.S., Justice, L.M., & O'Connell, A.A. (2019). Early childhood educators' knowledge about language and literacy: Associations with practice and children's learning. *Dyslexia*, 1-16.

LARRC, Currie, N. K., & Muijselaar, M. M. L. (2019). Inference making in young children: the concurrent and longitudinal contributions of verbal working memory and vocabulary. *Journal of Educational Psychology*, *111*(8), 1416–1431.

Uanhoro, J. O., Wang, Y., and O'Connell, A.A. (2019). Problems with using odds ratios as effect sizes in logistic regression and alternative approaches. *Journal of Experimental Education.* DOI: 10.1080/00220973.2019.1693328

O'Connell, AA, Kassa, M., Garabed, R., & Joseph. L. (2019). *Recommendations on building competencies for Quantitative Research in Education and Related Fields*. Proceedings of the 8th International Conference on Quality of Education, Adama, Ethiopia.

Serovich, J., Reed, S., O'Connell, AA., & Laschober, T. (2018). Relationship between serostatus disclosure and categories of HIV transmission risk in men who have sex with men living with HIV. *International Journal of STD & AIDS*, 29(8), 744-750.

Kassa, M & O'Connell, AA. (2018). *Statistics education at Post-secondary in Ethiopia: A menace to undertaking research.* Proceedings of the 9th International Conference on the Teaching of Statistics (ICOTS), July 2018. Kyoto, Japan.

LARRC, Yeomans-Maldonado, G, Bengochea, A., and Mesa, C. (2018). The dimensionality of oral language in kindergarten Spanish-English dual language learners. *Journal of Speech, Language, and Hearing Research. 61*, 2779-2795.

Schachter, R.E., Weber-Mayer, M.M., Piasta, S.B., O'Connell, A.A. (2018). What happens during language and literacy coaching? Coaches reports of their interactions with educators. *Early Education and Development*, online, https://doi.org/10.1080/10409289.2018.1487222.

Rhoad-Drogalis, A., Sawyer, B., Justice, L., O'Connell, AA. (2018). Assessing learning behaviors in early childhood special education classrooms to early education and development. *Early Education and Development.*

Weber-Mayrer, M., Piasta, S., Justice, L., Ottley, M., & O'Connell, AA (2018). Early Childhood Literacy Coaching: An examination of coaching intensity and changes in educators' literacy knowledge and practice. *Teaching and Teacher Education, 76,* 14-24.

Spear, C.F., Piasta, S.B., Yeomans-Maldonado, G., Ottley, J.R., Justice, L.M. & O'Connell, A.A. (2018). Early childhood general and special educators: An examination of similarities and differences in beliefs, knowledge, and practice. *Journal of Teacher Education*.

Chen, J., Lin, T-J, Ku, Y-M, Zhang, J., & O'Connell, A.A. (*accepted 2017*). Reader, word, and character attributes contributing to Chinese children's concept of word. *Scientific Studies of Reading*.

Language and Reading Research Consortium (LARRC) (2017). Oral language and listening comprehension: Same or different constructs? *Journal of Speech, Language and Hearing Research, 60*(5), 1273-1284.

Farley, K. S., Piasta, S. B., Dogucu, M., & O'Connell, A.A. (2017). Assessing and predicting small-group literacy instruction in early childhood classrooms. *Early Education & Development, 28*(4), 488-505.

Piasta, S.B., Justice, L.M., O'Connell, A.A., Mauck, S., Weber-Mayrer, M.M., Schachter, R.E., Farley, K.F., & Spear, C.F. (2017). Effectiveness of large-scale, state-sponsored language and literacy professional development on early childhood educator outcomes. *Journal of Research on Educational Effectiveness, 10*(2), 354-378.

Language and Reading Research Consortium (LARRC), Johanson, M., & Arthur, A.M. (2016). Improving the language skills of pre-kindergarten students: Preliminary impacts of the *Let's Know!* experimental curriculum. Task Force: Justice, L., Johanson, M., O'Connell, A.A., Gray, S., Piasta, S. *Child Youth Care Forum, 45,* 367-392.

Language and Reading Research Consortium (LARRC), Farquharson, K. and Murphy, K.A. (2016) Ten Steps to Conducting a Large, Multi-Site, Longitudinal Investigation of Language and Reading in Young Children. Task Force: O'Connell, AA., Pentimonti, J., Piasta, S. *Frontiers in Developmental Psychology, 7:419*, 1-16. doi: 10.3389/fpsyg.2016.00419

Dynia, J. M., Schachter, R. E., Piasta, S. B., Justice, L. M., O'Connell, A. A., & Yeager Pelatti, C. (2016). An empirical investigation of the dimensionality of the physical literacy environment in early childhood classrooms. *Journal of Early Childhood Literacy*. doi: 10.1177/1468798416652448

O'Connell, A.A., Reed, S. & Serovich, J. (2015). The efficacy of serostatus disclosure for HIV transmission risk reduction. *AIDS and Behavior, 19*, 283-290. DOI 10.1007/s10461-014-0848-2

Language and Reading Research Consortium (LARRC). (2016). Use of the curriculum research framework (CRF) for developing a reading-comprehension curricular supplement for the primary grades. *Elementary School Journal*.

Ottley, J. R., Piasta, S. B., Mauck, S. A., O'Connell, A., Weber-Mayrer, M., & Justice, L. M. (2015). The nature and extent of change in early childhood educators' language and literacy knowledge and beliefs. *Teaching and Teacher Education, 52*, 47-55.

Language and Reading Research Consortium (LARRC) (2015). The Dimensionality of Spanish in Young Spanish-English Dual Language Learners. Task Force: Gray, S., O'Connell, A.A., Pentimonti, J, & Restrepo, M.A. *Journal of Speech, Language, and Hearing Research, 58*, 754-766.

Language and Reading Research Consortium (LARRC) (2015). The Dimensionality of Language Ability in Young Children: PreKindergarten to Grade 3. Task Force: Pentimonti, J., Cain, K., & O'Connell, A.A., Justice, L. *Child Development, 86*(6), 1948-1965.

Anderman, E.M., Gimbert, B., O'Connell, A.A. & Riegel, L. (2015). Approaches to academic growth assessment. *British Journal of Educational Psychology, 85*(2), 138-153. (Invited submission for special issue).

Kassa, M & O'Connell, AA. (2014). *Statistics education in Ethiopia: Successes and Challenges*. Proceedings of the 9th International Conference on the Teaching of Statistics (ICOTS), July 2014. Flagstaff, AZ.

Yaeger Pelatti, C., Piasta, S., Justice, LJ & O'Connell, AA. (2014). Language- and literacy-learning opportunities in early childhood classrooms: Children's typical experiences and within-classroom variability. *Early Childhood Research Quarterly, 29*(4), 445-456.

Language and Reading Research Consortium (LARRC), Pratt, A. & Logan, J. (2014). Improving language-focused comprehension instruction in primary-grade classrooms: impacts of the let's know! experimental curriculum. *Educational Psychology Review, 26*, 357-377.

Schmitt, M.B., Justice, L. M., & O'Connell, A.A. (2014). Vocabulary gain among children with language disorders: Contributions of children's behavior regulation and emotionally supportive environments. *American Journal of Speech-Language Pathology, 23,* 373-384. doi:10.1044/2014_AJSLP-12-0148

Wardwell, KK, Focht, BC, DeVries, AC, O'Connell, AA, Buckworth, J (2013). Affective Responses to Self-Selected and Imposed Walking in Inactive High Stress Women: A Pilot Study. *Journal of Sports Medicine and Physical Fitness*, 53(6), 701-712.

Graham, JE, Deutsch, A, O'Connell, AA, Karmarkar, AM, Granger, CV, Ottenbacher, KJ (2013). Inpatient rehabilitation volume and functional outcomes in stroke, lower extremity fracture, and lower extremity joint replacement. *Medical Care, 51*(5), 404-412.

Hsu, Y-T., Buckworth, J., Focht, B. & O'Connell, A.A. (2013). Feasibility of a self-determination theory-based exercise intervention promoting Healthy at Every Size with sedentary overweight women: Project CHANGE. *Psychology of Sport and Exercise, 14*, 283-292.

O'Connell, A.A. & Reed, S. (2012). Hierarchical data structures, institutional research, and multilevel modeling. In J. Lott & J. Antony (Eds.) (Special Issue), *New Directions in Institutional Research*, 154, 5-22.

Li, J. & O'Connell, A.A. (2012). Obesity, high-calorie food intake, and academic achievement trends among US school children. *Journal of Educational Research, 105*, 391-403.

Tull, M.C. & O'Connell, A.A. (2012). Investments in human capital pay dividends for courts. *Future Trends in State Courts: Special Focus on Courts and Community.* National Center for State Courts.

O'Connell, A.A., Liu, X. (2011). Model diagnostics for proportional and partial proportional odds models. *Journal of Modern Applied Statistical Methods, 10*(1),139-175.

Liu, X., O'Connell, A.A., Koirala, H. (2011). Ordinal regression analysis: Predicting mathematics proficiency using the continuation ratio model. *Journal of Modern Applied Statistical Methods, 10*(2), 513-527.

O'Connell, A.A. & Gray. D.L. (2011). Cause and event: Supporting causal claims through logistic models. *Educational Psychology Review, 23*(2), 245-261.

Osborn CY, Amico KR, Cruz N, Perez-Escamilla R, Kalichman SC, O'Connell A, Wolf SA, Fisher JD. (2011). Development and implementation of a culturally tailored diabetes intervention in primary care. *Translational Behavioral Medicine: Practice, Policy, Research, 1*(3), 468-479.

Anderman, E.M., Cupp, P.K., Lane, D.R., Zimmerman, R., Gray, D. & O'Connell, A.A. (2011). Classroom goal structures and HIV/pregnancy prevention education in rural high school health classrooms. *Journal of Research on Adolescence, 21*(4), 904-922.

Gray, D. L., Anderman, E. M., & O'Connell, A. A. (2011). Associations of teacher credibility and teacher affinity with learning outcomes in health classrooms. *Social Psychology of Education: An International Journal, 14*, 185-208.

Sackes, M., Trundle, K.C., Bell, R.L., & O'Connell, A.A. (2011). The influence of early science experience in kindergarten on children's immediate and later science achievement: Evidence from the Early Childhood Longitudinal Study. *Journal of Research in Science Teaching, 48*(2), 217-235.

Osborn CY, Amico KR, Cruz N, O'Connell A, Perez-Escamilla R, Kalichman SC, Wolf SA, Fisher, JD. (2010). A brief culturally-tailored intervention for Puerto Ricans with Type 2 diabetes. *Health Education and Behavior, 37*(6) 849-862.

Pescattello, L. , Blanchard, B.E., Tsongalis, G.J., O'Connell, A.A., Gordish-Dressman, H., Maresh, C.M, & Thompson, P.D. (2008). A comparison of the genetic and clinical profile of men that respond and do not respond to the immediate antihypertensive effects of aerobic exercise. *The Application of Clinical Genetics, 1*, 7-17.

Pescatello, L.S., Blanchard, B.E., Tsongalis, G.J., Maresh, C.M., O'Connell, A.A., & Thompson, P.D., (2007). The α Adducin Gly460Trp polymorphism and the antihypertensive effects of exercise among men with high blood pressure. *Clinical Science, 113*, 251-258.

O'Connell, A.A. & Levitt Doucette, H. (2007). Modeling longitudinal ordinal response variables for educational data. *Journal of Modern Applied Statistical Methods, 6*(1), 304-319.

McCoach, D.B., Black, A., & O'Connell, A.A. (2007). Errors of inference in structural equation modeling. *Psychology in the Schools, 44*(5), 461-470.

McCoach, D.B., O'Connell, A.A. Reis, S.M., & Levitt, H.A. (2006). Growing readers: A hierarchical linear model of children's reading growth during the first 2 years of school. *Journal of Educational Psychology, 98*(1), p. 14-28.

McCoach, D.B., O'Connell., A.A., Levitt, H.A., & Reis, S.M. (2006). Ability grouping across kindergarten using an early childhood longitudinal study. *Journal of Educational Research, 99*(6), 339-346.

Pescatello, L.S., Blanchard, B.E., & O'Connell, A.A. (2005). Reply to Atkinson, et al. *Journal of Hypertension, 23*.

O'Connell, A.A. & McCoach, D.B. (2004). Applications of hierarchical linear modeling for evaluation of health interventions : Demystifying the methods and interpretation of multilevel models. *Evaluation and the Health Professions, 27*(2), 119-151.

Semaan, S., Lauby, J., O'Connell, A.A., & Cohen, A. (2003). Correlates of decisional balance for condom use with main partner among women at risk for HIV infection. *Women and Health, 37*(3), 53-69.

O'Connell, A.A. & Schrader, P.G. (2003). Introduction to probability: A hypercard tutoring system. *International Journal of Instructional Media, 30*(3), 1-10.

O'Connell, A. A. (2002). Student perceptions of assessment strategies in a multivariate statistics course. *Journal of Statistics Education, 10*(1). http://www.amstat.org/publications/jse/v10n1/oconnell.html.

Lauby, J., Semaan, S., O'Connell, A. A., Person, B., & Vogel, A. (2001). Factors related to self-efficacy for use of condoms and birth control among women at risk for HIV infection. *Women and Health, 34*(3), 71-91.

O'Connell, A. A. (2000). Methods for modeling ordinal outcome variables. *Measurement and Evaluation in Counseling and Development, 33*(3), 170-193.

O'Connell, A. A. (2000). Sampling for Evaluation: Issues and Strategies for Community-based HIV Prevention Programs. *Evaluation and the Health Professions, 23*(2), 212-234.

O'Connell, A. A. (1999). Errors in probability problem-solving. *Educational Research and Evaluation, 5*(1), 1-21.

Bol, L., Warkentin, R.W., Nunnery, J.A., & O'Connell, A.A. (1999). College students' study activities and their relationship to study context, reference course, and achievement. *College Student Journal, 33*(4), 608-628.

Stark, M. J., Tesselaar, H. M., O'Connell, A. A., Person, B., Galavotti, C., Cohen, A., & Walls, C. (1998). Psychosocial factors associated with the stages of change for condom use among women at risk for HIV/STDs: Implications for Intervention Development. *Journal of Consulting and Clinical Psychology, 66*(6), 967-978.

Bol, L., Stephenson, P.L., Nunnery, J.A., & O'Connell, A.A. (1998). Influence of experience, grade level, and subject area on teachers' assessment practices. *Journal of Educational Research, 91*(6), 323-330.

O'Connell, A. A., Bol, L., & Langley, S. C. (1997). Evaluation issues and strategies for community-based organizations developing women's HIV prevention programs. *Evaluation and the Health Professions, 20*(4), 428-454.

Stark, M., Fleming, D., Tesselaar, H., O'Connell, A.A., Armstrong, K. (1996). Contraceptive method and condom use among women at risk for HIV infection and other sexually transmitted diseases - Selected US sites, 1993-1994. *Morbidity and Mortality Weekly (MMWR) Report, 45*(38), pp. 820-823.

## IV. Manuscripts in Progress (selected)

Shaw, B & O'Connell, A.A. (*in revision*). A Partially Nested Multilevel Model for Analysis of District Data Including Charter or Private Schools.

O'Connell, A.A., Justice., L., & Chaparro-Moreno (*in progress*) Is it growth or change? Strategies for teaching the complexities of longitudinal models.

O'Connell, A.A. *"Dream of a common language": Defining interdisciplinary quantitative methods.* In progress.

O'Connell, A.A. *That's not Normal!* Book proposal for comprehensive treatment of non-normal response data.

## V. White Papers, Proceedings, Non-refereed Publications, and Evaluation Reports

Woodruff, S. B., Dixon, M. L., Hutzel, M., O'Connell, A., Robison, D., Morio, K., White, J., Li, Y., Lewis, M., MacKenzie, A. H., Meehan, C., Hatsu, I., Slaughter, A., and Matthews, L. (2020). *Investing in student wellness and success: Case studies to examine and improve impact, Final report, July 15, 2020*. Oxford, OH: Miami University, Discovery Center for Evaluation, Research, and Professional Learning.

Bhaktha, N., Lo, M-T., Mauck, S., Reed, S., & O'Connell, AA. (2018). *Report Card Analysis for Licking Heights School District: Final Report.* Research Methodology Center (RMC) Report.

Piasta, S. B., Mauck, S. A., Schachter, R. E., Spear, C. F., Farley, K. S., Weber-Mayrer, M., . . . O'Connell, A. A. (2017). *Assessing preschool professionals' learning experiences in Ohio: What have we learned?* [White Paper]. Columbus, OH: Crane Center for Early Childhood Research and Policy, The Ohio State University.

O'Connell, A.A. (2015). *International opportunities for educational statisticians*. Invited presentation for AERA SIG Service Award, American Educational Research Association. April, 2015, Chicago, IL.

Kassa, M. & O'Connell, A.A. (2014). *Statistics education in Ethiopia: Successes, challenges and opportunities*. Invited presentation: 9th International Conference on Teaching Statistics, International Statistics Institute.

O'Connell, A.A. & Edington, J. (2011). *Impact Evaluation of Judicial College Education for Juvenile Court Judicial Officers.* Final Results, submitted to the Supreme Court of Ohio Judicial College, Columbus, Ohio.

O'Connell, A.A. & Reed, S. (2010). *Evaluation Report for the Ryan White Central Ohio HIV Consortium YR 19, 2009-2010*. Final Results, submitted to Ohio AIDS Coalition and Ohio Department of Health.

O'Connell, A. A. (2010). *An illustration of multilevel models for ordinal response data* (Chris Reading, Ed.). Proceedings of the 8th International Conference on Teaching Statistics, ISI.

O'Connell, A.A. & Reed, S. (2009). *Evaluation Report for the Ryan White Central Ohio HIV Consortium YR 18, 2008-2009*. Final Results, submitted to Ohio AIDS Coalition and Ohio Department of Health.

O'Connell, A.A. & Little, C.A., Zhao, J., and Ayers Paul, K. (2007). *Evaluation of the 2006/07 Teacher Quality Partnership Grant Program: Final Results*. Submitted to Connecticut Department of Higher Education.

O'Connell, A. A., Ataya, R.L., Zhao, J., Liu, X., & Allen, S. (2006). *Web-based instruction for statistical power analysis* (Allan Rossman and Beth Chance, Eds.) Invited Presentation, Proceedings of the 7th International Conference on Teaching Statistics, ISI.

O'Connell, A.A. & Zhao, J. (2006). *Final Summary Report: Evaluation Results for the 2005 – 2006 Teacher Quality Partnership Grants Program*. Submitted to State of Connecticut Department of Higher Education.

O'Connell, A.A. & Zhao, J. (2006). *Summary Report: Evaluation Results for the 2005 – 2006 Teacher Quality Partnership Grants Program*. Submitted to State of Connecticut Department of Higher Education.

O'Connell, A.A. & Zhao, J. (2005). *Evaluation Methodology Report: Teacher Quality Partnerships Grants Program*. Submitted to State of Connecticut Department of Higher Education.

O'Connell, A.A. (2004). Final Report. *Factors Associated with Growth in Proficiency during Kindergarten and Through First Grade*. Submitted to the AERA Research Grants Program.

O'Connell, A.A. Cornman, D. & Ataya, R.L. (2003). *Evaluation of "Positive Attitudes."* Report submitted to AIDS Project Hartford, Hartford, CT.

O'Connell, A.A. (2003). Measurement, Evaluation and Assessment Program: *An Application to Become an Area of Concentration within the Field of Study of Educational Psychology*. Submitted to the Graduate School, University of Connecticut. Program approved and opened September 2003.

O'Connell, A. A & Ataya, R.L (2002). *Evaluation Report: Project M*. Report submitted to AIDS Project Hartford, contractor to the CT Department of Public Health.

O'Connell, A. A. (2002). *Hierarchical linear models for the analysis of longitudinal data with applications from HIV/AIDS program evaluation.* (Brian Phillips, Ed.) Invited presentation: Proceedings of the Sixth International Conference on Teaching Statistics, ISI.

McCoach, D.B., O'Connell, A.A., Levitt, H. Reis, S.M. (2002). *A multilevel analysis of the effects of ability grouping in kindergarten reading using base-year data from the ECLS-K*. 2002 Research Briefs. National Association for Gifted Children : Washington, DC.

O'Connell, A. A. (2000). *Evaluation Report: Agency Perceptions of the HIV Evaluation Bank.* Report submitted to: State of Connecticut, Department of Public Health.

O'Connell, A. A. (1999). Review of *Modern Multidimensional Scaling: Theory and Applications*. *Journal of the American Statistical Association*, March 1999.

O'Connell, A. A. (1998). Results of the Sharing readership survey. *Sharing, 5*(9), p.2.

O'Connell, A. A. (1997). *Final Report: Evaluating an African-Centered Adolescent Pregnancy Model*. (APR 000966-01). Performance report submitted to: National Institutes of Health, Office of Population Affairs.

Ross, S. M., Smith, L. J., Nunnery, J. A., et al., (1995). *A Study of Magnet Schools in an Urban School District*, Policy/Practice Brief No. 9501, Memphis: Center for Research in Educational Policy.

O'Connell, A. A. (1995). *Optional Schools Evaluation: 1994-1995: Evaluation of the Individually Guided Education Optional Program at Vollentine Elementary School*. Technical Report, Center for Research in Educational Policy, College of Education, University of Memphis.

O'Connell, A. A., and Gardner, D.S. (1994). *Optional Schools Evaluation: 1993-1994: Evaluation of the Enriched Academics Optional Program at Grahamwood Elementary School*. Technical Report, Center for Research in Educational Policy, College of Education, University of Memphis.

O'Connell, A. A. (1991). *East Harlem Tutorial Program: Evaluation Results*. Evaluation/Technical Report.

## Dissertation

O'Connell, A. A. (1993). *A classification of student errors in probability problem-solving.* Doctoral Dissertation, Teachers College, Columbia University, New York, New York.

*FUNDING – GRANTS AND CONTRACTS*

## I. Externally Funded Research Grants

O'Connell, AA (PI), Bowen, N., Ruhil, A., Lewis, M., Stuckey-Mickell, T. *Building local collaborative capacity for selecting, implementing, and evaluating evidence-based interventions*. Institute of Education Sciences, Methods Training Grant, July 2020 – June 2023.

Brock, M (PI), Lin, S-Y, O'Connell, AA, Justice, M. (Co-I's). *Focusing on learning, interaction, and play (FLIP) at recess for students with severe disabilities*. Institute of Education Sciences. July 2021 – June 2025.

Brock, M (PI), Justice, M. & O'Connell, AA (Co-I's). *Project LEADERS: Preparing future scholars in severe disabilities and advanced research methods*. Institute of Education Sciences. January 2022 – December.

Verschwaegen, C. (PI), Jackson, R., & O'Connell, AA (Co-I's). *Co-ordinating Center for National Cancer Institute (NCI) Awardees Skills Development Consortium (NASDC)*. National Institutes of Health/National Cancer Institute, July 2020 – June 2023.

Justice, L.J., (PI), Piasta, S., Sawyer, B., & O'Connell, A.A. (Co-I's). *Read-it-Again in Special Education (RISE).* Institute of Education Sciences (IES). June 2013-17.

Justice, L.J., Piasta, S. & O'Connell, A.A. (PI/co-PIs). *Children's Learning Research Collaborative Fellowships for Postdoctoral Research Training in the Education Sciences.* IES. June 2012-16.

Olsen, R., Hawley, J., & O'Connell, A.A. (PI/co-PIs). *Ohio Education Research Center* (March 2012-July 2014). Awarded through Ohio Department of Education, Race-to-the-Top ($3.8 million).

Justice, L.M. (PI), Petrill, S.A., O'Connell, A.A., Piasta, S., and Lomax, R.G. (Co-I's). (June 2010 – July 2015). *The language bases of reading comprehension* (LARRC). Awarded May 2010 from the US Department of Education/IES (total award, $19,999,997.00).

Piasta, S. & Justice, L.M (PIs); O'Connell, A.A & Sykes, D. (Co-I's). (June 2010 – July 2015). *Evaluating the effectiveness of the Ohio Department of Education's Literacy Core Curriculum for Early Childhood Educators (APPLE)*. US Department of Education/IES ($5,999,960).

Serovich, J. (PI); Bonomi, AE, Slesnick, N., & O'Connell, (Co-I's) (August 2009 – July 2013). *Disclosure of HIV status to casual sexual partners.* National Institutes of Health. ($3,297,555).

Snyder, L. (August 2005 – August 2006). *Center of Excellence in Health Communication & Marketing*. Core Leader, Section on Research Methods. DHHS/Centers for Disease Control and Prevention.

O'Connell, A. A. (PI) (April, 2002 – December 2004). *Factors Associated with Growth in Proficiency during Kindergarten and through the First Grade*. AERA Research Grants Program, $25,000.

O'Connell, A. A. (PI), and Okwumabua, J. O. (July, 1996 – May 1997). *Evaluating an African Centered Adolescent Pregnancy Model*. Adolescent Family Life, Office of Population Affairs, NIH, $139,600.

## II. Externally Funded Contracts

O'Connell, A.A. (PI) & Hatsu, I. (March 2020 – Sept 2020 ). *Student Wellness: Evaluating Programs for Homeless Students in Ohio*. Ohio Department of Education (subcontract). $22,000.

O'Connell, A.A. (PI) (June 2010 – June 2011). *Evaluation of Judicial College Programs*. Supreme Court of Ohio, Judicial College, $59,000.

O'Connell, A.A. (PI) (June 2006 – June 2007). *Year 3 Continuation of Evaluation of Teacher Quality Partnership Grants*. Connecticut State Department of Higher Education, $37,000.

O'Connell, A.A. (PI) (August 2005 – June 2006). *Year 2 Continuation of Evaluation of Teacher Quality Partnership Grants*. Connecticut State Department of Higher Education, $30,392.

O'Connell, A.A. (PI) (July 2004 – July 2005). *Evaluation of Teacher Quality Partnership Grants*. Connecticut State Department of Higher Education, $23,475.

O'Connell, A. A. (PI) (August, 1995 – August 1997). *Interagency Professional Agreement (IPA)*, Behavioral Intervention Research Branch, Division of HIV/AIDS Prevention, NCHSTP, Centers for Disease Control and Prevention (CDC), Atlanta, GA, $105,960.

## III. Internally Funded Competitive Research Grants

O'Connell, AA (PI), Justice, L., Goodway, J., & Ansari, A. *Transformational research and research strengthening: A multimethod investigation of Early Childhood Care and Education practices in Ethiopia*. EHE Dean's "Big Ideas" grant competition, $100,000. January 2020 (postponed to August 2021).

O'Connell, AA (PI), Garabed, R., & Joseph, L. (2018). *An interdisciplinary approach to strengthening capacity for health and education/social science research in Ethiopia and Cameroon*. OSU Connect & Collaborate, $54,000. April 2018.

Xie, K. (PI), O'Connell, A., Reed, S. J. & Bowles, W. (Co-I's). *Using Learning Analytics in Examining Students' Learning Habits in Online Nursing Classes*. OSU Learning Analytics Seed Grant, $50,000. November, 2015.

O'Connell, A.A. (PI), Love, R., Baris, B G., Laroche, L., Koletar, S.L., Mott Forrest, T., Anderman, E. (Co-I's). *Barriers and Facilitators of Access to and Retention in Care for HIV+ Women Living in Poverty*. International Poverty Solutions Collaborative; $50,000. December 2011.

O'Connell, A.A. (PI), Stuckey-Mickell, T.A., Hawley, J.D., Errante, A., Anderman, E., & Goldstein, H. (co-I's). *Ethiopia Outreach and Engagement with Addis Ababa University and Community Development Organizations*. OSU College of Education and Human Ecology, $7500. January, 2012.

Goldstein, H. & Barney, J. (PI's). Center for Innovation: *OSU International Poverty Solutions Collaborative*. O'Connell, A.A. :Methodology core leader. Awarded October 2009.

O'Connell, A.A. (PI) (December 2004 – May 2005). Conference: *Capacity Building for Translation of Effective HIV Prevention Interventions*. Conference convened in May 2005. Department of Educational Psychology and the Center for Health/HIV Intervention and Prevention, University of Connecticut, $6500.

O'Connell, A.A. (PI) & Cornman, D. (December 2002). *Assessing CBO Capacity and Readiness to Translate Effective HIV Prevention Behavioral Interventions*. Center for Health/HIV Intervention and Prevention (CHIP), University of Connecticut, $3543.

O'Connell, A. A. (PI) (December, 2001). *Development and Formative Evaluation for Problem-based Learning of Statistical Power Analysis*. University of Connecticut Research Foundation, $1000.

O'Connell, A. A. (PI) (June, 2000). *Investigating Adjustments for Selection Bias in Multi-level Designs: Implications for the Evaluation of Social Programs*. UConn Research Foundation, $4760.

O'Connell, A. A. and Kulikowich, J.M. (co-PIs) (June 2000). *Using Technology to Enhance Learning In Statistics: What Makes Good Practice?* Information Resources and Technology Advisory Committee (IRTAC), Neag School of Education, University of Connecticut, $6000.

O'Connell, A. A. (PI) (November, 1994). *Towards Cognitive Diagnosis in Probability Problem-Solving*. Principal Investigator, Faculty Research Grant, University of Memphis. $3940.00

*ADDITIONAL RESEARCH ACTIVITY*

## Software and Website Development

O'Connell, A.A. (2002). *PowerProject*. A web-supported tutoring system for learning power analysis using the nQuery power analysis software.

O'Connell, A.A. (1997). *HyperProb*. A tutoring system for probability problem-solving. Interactive tutoring program written in HyperCard.

## Research and Center Affiliations

OSU Global One Health (GOHi). Member and faculty representative for Education and Human Ecology.

OSU Translational Data Analytics Institute (TDAI). Faculty affiliate.

Crane Center for Early Childhood Research and Policy (CCEC), OSU. Research methodologist; Postdoc mentor/advisor.

Language and Reading Research Consortium (LARRC). Multi-university consortium. (OSU, Arizona State, University of Kansas, Lancaster (UK) University.

Public Health Preparedness for Infectious Diseases (PHPID), Faculty Affiliate, OSU.

Ohio Department of Education, State Value-added and Growth Models, Advisory Group Member. June 2008 to present.

The Ohio State University, International Poverty Solutions Center, 2011-12. Faculty director, Methodology Core.

Initiative in Population Research, The Ohio State University. August 2007 to 2013.

Center for Health/HIV Intervention and Prevention (CHIP), University of Connecticut, Storrs. Research Affiliate. May 2001 to 2008.

Center of Excellence for Health Communication and Marketing, University of Connecticut, Storrs. Core leader: Research Methods Section. 2005-2007.

Center for Interdisciplinary Research on AIDS (CIRA), Yale University. Research Affiliate. November 2004 to 2008.

Center for Public Health and Health Policy, University of Connecticut. Core member, Academic Program Development Task Force; Advisory member, Biostatistics Task Force, 2004-2007.

Teachers for a New Era (TNE), Neag School of Education, University of Connecticut, Storrs. Consultant/collaborator on TNE initiatives. July 2004 - 2005.

National Research Center on the Gifted and Talented (NRCGT), University of Connecticut, Storrs. Research Scientist: September 1999-2006.

Bureau for Educational Research and Service, Neag School of Education, University of Connecticut. Associate: September 2000-2002.

## SELECTED Conference Papers and Invited Conference Presentations (*invited)

Wilberforce, W. & O'Connell, AA (2022). *Quantitative Methods Training Opportunities and Competencies of Graduate Students in Selected Universities in Ethiopia*. OSU EHE Research Forum, February 23, 2022.

O'Connell, AA, Lewis, M., Ruhil, A., Stuckey, T., Bowen, N., Stephany, K. & Gowdy, K. (2021). *Evidence-based Intervention Training for Education (EBITE): Facilitating Use of EBIs in Districts and Schools.* Society for Research on Educational Effectiveness (SREE), Sept. 26 - 29, 2021.

O'Connell, A.A., Bhaktha, N. & Zhang, J. (2021). *Deciding between Multilevel Poisson and Multilevel Negative Binomial Models: Guiding Questions for Researchers*. Society for Research on Educational Effectiveness (SREE), Sept. 26 - 29, 2021.

O'Connell, AA, Lewis, M., Ruhil, A., Stuckey, T., Bowen, N., Stephany, K. & Gowdy, K. (2021). *Building on Local Context to Facilitate Use of Evidence-based Interventions in Districts and Schools*. Presented at the What Works Global Summit (WWGS), October 18 - 26, 2021.

Verschraegen, C., Neill, U., Hashibe, M., Hexner, E.O, Fesnak, A., Noël, C., Pirl, W., Temel, J., O'Connell, AA, Jackson, R., Grupp, S., Mankoff, S., Wolchok, JD, Okuyemi, K., Eljanne., M. (2021). *NASDC: A New Educational Effort for Junior NCI Grantees*. American Association for Cancer Education (AACE). May 2021.

Verschraegen, C., Hashibe, M., O'Connell, AA, et al. (2021). *NCI Awardee Skills Development Consortium (NASDC) Applicant Profiles*. American Society of Clinical Oncology (ASCO), June 2021.

O'Connell, A.A. (2021) *Discussant: Who Gets to Learn? Student Achievement and Academic Growth*. Creativity and Talent Symposium (Gifted SIG), AERA, April 2021.

O'Connell, AA (2019) Master Class – Symposium for the 2nd Higher Education Forum for Africa, Asia, and Latin America (HEFAALA), "*Building Capacity in Quantitative Research through International Cooperation and Partnership*." Addis Ababa, Ethiopia, July 2019.

O'Connell, AA, Garabed, R., Joseph, L & Kassa, M. (2019) *Recommendations on building competencies for quantitative research in education and related fields*. Paper presented to the 9th Annual International Educational Conference on Quality of Education, Addis Ababa University, Ethiopia.

Kassa, M & O'Connell, AA. (2018). *Statistics education at Post-secondary in Ethiopia: A menace to undertaking research.* Presented at the 9th International Conference on the Teaching of Statistics (ICOTS), July 2018. Kyoto, Japan.

Piasta, S.B., Park, S., Farley, K.S., Justice, L.M., & O'Connell, A.A. (2018, July). *Associations between early childhood educators' knowledge and children's emergent literacy outcomes*. Paper to be presented at the Annual Meeting of the Society for the Scientific Study of Reading, Brighton, UK.

*O'Connell, A.A. (2017). *Approaches for Modeling Clustered Count Data*. Presentation to the Methodological Colloquium, OSU

*O'Connell, A.A. (2017). *Strengthening Research Methodology and Data Analysis Capacity in Higher Education in Ethiopia: Challenges and Opportunities*. Presentation to Voices in the Field Colloquium, Center for African Studies, OSU.

O'Connell, A.A., Yeomans-Maldonado, G., Bhaktha, N., Murphy, K, and LAARC (2017, July). *Ecological profiles of pre-K children's home environment and their relationship to early language and reading skills*. Paper presented at the Annual Meeting of the Society for the Scientific Study of Reading, Halifax, Nova Scotia.

Piasta, S.B., Justice, L.M., O'Connell, A.A., Mauck, S., Weber-Mayrer, M., Schachter, R.E., Farley, K.S., Spear, C.F., Strang, T.M., & Jia, R. (2017, July). *State-sponsored language- and literacy- professional development for early childhood educators: Educator and child outcomes*. Paper presented at the Annual Meeting of the Society for the Scientific Study of Reading, Halifax, Nova Scotia.

*O'Connell, A.A. (2015). *International opportunities for educational statisticians*. Invited presentation for SIG Service Award, American Educational Research Association. April, 2015, Chicago, IL.

*O'Connell, AA, McCoach, DB, Yeomans-Moldanado, G. (2014). *Best practices for residual diagnostics in the multilevel framework*. Invited presentation for the Applications of Multilevel Modeling in Educational Research. November, University of Maryland.

Kassa, M & O'Connell, AA. *Statistics education in Ethiopia: Successes and Challenges*. 9th International Conference on the Teaching of Statistics (ICOTS), July 2014. Flagstaff, AZ.

Reed, S. J., Serovich, J. M., & O'Connell, A. A. (2014, June). *Reliability of self-reported aggregate and encounter-specific sexual activity in HIV-positive MSM*. Paper presented at the meeting of the Centers for Disease Control STD Prevention Conference, Atlanta, GA.

O'Connell, A.A., Serovich, J.M., & Reed, S.J. (2013, May). *A mathematical evaluation of the effects of disclosure on HIV transmission risk in MSM.* Paper presented at the Modern Modeling Methods Conference (M3), May 20-21, Storrs, CT.

Porter, L.M., Baker, A.R., O'Connell, A.O. (2013, May). *HIV + Women in Ohio: Barriers to Access and Retention in Care*. Poster Presentation at Center for Clinical & Translational Science 2013 Scientific Meeting & Appalachian Health Summit.

Baker, A.R., Porter, L.M., & O'Connell, A.A. (2013, May). *Barriers to Access to and Retention in Care for HIV-Positive Women in Ohio.* Poster presented at the Ohio Public Health Association Combined Conference, Columbus, OH.

Porter, L.M., Baker, A.R., O'Connell, A.O. (2013, January). *HIV + Women in Ohio: Barriers to Access and Retention in Care*. Poster Presentation at the 2013 OSU Education and Human Ecology Forum.

Baker, A.R., Porter, L.M., O'Connell, A.A. (2013, January). *Using Motivation Theory to Understand the Health Care Behaviors of HIV-Positive Women.* Poster presented at the College of Education and Human Ecology Research Forum, Columbus, OH.

*O'Connell, A.A. (2012, October). "*Educational Research in Higher Education and Program Evaluation: Trends and Challenges*." Open presentation at Addis Ababa University, October, Ethiopia.

Wallace-Pascoe, D., Forrest, T., O'Connell, A.A. (2012, November). "*Methods for developing a framework of indicators to evaluate holistic solutions to poverty."* Poster presented at the AEA annual meeting, November, Minneapolis, MN.

O'Connell, AA, Reed, S, Gray, D, Huang, S. (2012, April). "*Assessing model fit for ordinal response regression models*." Paper presented at the 93rd Annual Meeting of the American Educational Research Association, April 2012. Vancouver, BC.

O'Connell, AA, Pentimonti, J., and the Language and Reading Research Consortium (LARRC) (2012, April). "*Assessing Cognitive Processes at the Core of Reading Comprehension: Pre-Kindergarten through Third Grade for the General English Speaking Population*." Paper presented at the Annual Meeting of the National Council on Measurement in Education (NCME), April 2012. Vancouver, BC.

Jiang, H., Huang, S, Lomax, R, O'Connell, AA. (2012, April). "*A Hierarchical Cross-Classified Model on Children's Rated Performance in Reading and Math: Exploring Rater Effects*." Paper presented at the 93rd Annual Meeting of the American Educational Research Association, April 2012. Vancouver, BC.

Ren, W., O'Connell, AA, Loadman, W., Moore, R. (2012, April). "*Impact of Design Features for Cross-Classified Random-Effects Logistic Models When the Cross-Classification Structure Is Ignored: A Monte Carlo Study*." Poster presented at the 93rd Annual Meeting of the American Educational Research Association, April 2012. Vancouver, BC.

O'Connell, A.A., Wallace-Pascoe, D., & Forrest, T. Mott. (2011, November). "*Designing and indicator-based profile for evaluating and identifying poverty solutions.*" Paper presented at Evaluation 2011: American Evaluation Association Annual Meeting, November 2-5th, Anaheim, CA.

O'Connell, A.A., Reed, S. J., & Serovich, J.M. (2011, November). "*Evaluating the impact of HIV disclosure on HIV transmission risk.*" Paper presented at Evaluation 2011: American Evaluation Association Annual Meeting, November 2-5th, Anaheim, CA.

O'Connell, A.A. on behalf of Zewdie, Z. (2011). "*A community-wide approach to reducing poverty and enhancing livelihoods in Ethiopia.*" Presented at the International Poverty Solutions Collaborative Conference: Building Solutions to Poverty: Methods and Metrics for Identifying Success. Columbus, Ohio, October 19-21, 2011.

Ren, W., O'Connell, A.A., Loadman, W., & Moore, R. (2011). "Exploring the neighborhood effect of juvenile recidivism: Using cross-classified random-effect models for dichotomous outcomes." Presented at the International Poverty Solutions Collaborative Conference: Building Solutions to Poverty: Methods and Metrics for Identifying Success. Columbus, Ohio, October 19-21, 2011.

O'Connell, A.A., Wallace-Pascoe, D., & Forrest, T. Mott. (2011). "Sampling and evaluation: How to make evaluation sampling decisions that work for your organization." Presentation at the 2nd Annual Data Driven Conference, Community Research Partners, Columbus, Ohio, September 23, 2011.

O'Connell, A.A., Reed, S. J., & Serovich, J.M. (2011). "A mathematical evaluation of the effect of disclosure on HIV transmission risk in MSM." Paper presented at the National HIV Prevention Conference, August 14-17th: Atlanta, GA.

O'Connell, A.A. Reed, S.J., Huang, S., & Gray, D.L. (2011). "Assessing model fit for ordinal response regression models." Paper presented at the Modern Modeling Methods Conference, University of Connecticut, Storrs, May 24-26th, 2011.

*O'Connell, A.A. (2011). "Hierarchical Linear Models in Medical and Rehabilitation Research: Statistical and Substantive Considerations." Invited lecture to the University of Texas Medical Branch (UTMB), Galveston, TX, April. Dept. of Rehabilitation Sciences.

O'Connell, A.A., Reed, S.J., Ren, W. & Li, J. (2011). "Multilevel models for ordinal response data: Theory and practice." Paper presented at the Modern Modeling Methods Conference, University of Connecticut, Storrs, May 24-26th, 2011.

Liu, X., O'Connell, A.A., & Koirala, H. (2011). "Ordinal regression analysis: Predicting mathematics proficiency using the continuation ratio model." Presented at the 92nd Annual American Educational Research Association Annual Meeting, New Orleans, LA: April, 2011.

*O'Connell, A.A. (2010). "An illustration of Multilevel Models for Ordinal Response Variables." Invited presentation for the 8th International Conference on the Teaching of Statistics (Session 4C), Ljubljana, Slovenia, July 11-16, 2010.

O'Connell, A.A., Reed, S., Ren, W., & Li, J. (2010). "Estimation Methods and Software Comparison for Hierarchical Generalized Linear Models." Presented at the 91st Annual American Educational Research Association Annual Meeting, April 29-May 4, 2010.

Li, J, & O'Connell, A.A. (2010). "The relationship between nutrition, family risk, and children's academic growth." Presented at the 91st Annual American Educational Research Association Annual Meeting, April 29-May 4, 2010.

Obregon, P. & O'Connell, A.A. (2010). "Usage and experiential factors as predictors of Spanish morphosyntactic competence in US Heritage speakers." Presented at the 91st Annual American Educational Research Association Annual Meeting, April 29-May 4, 2010.

Ren, W., Loadman, W., Moore, R., O'Connell, A.A. Edington, J, Vander Horst, A. (2010). "Using Hierarchical Linear Modeling to Analyze the Effect of the Read180 Program on Incarcerated Youth's Reading Performance." Presented at the 91st Annual American Educational Research Association Annual Meeting, April 29-May 4, 2010.

*Lomax, R., & O'Connell, A.A. (2009). "Structural equation modeling and multilevel modeling in literacy research. Invited presentation for the National Reading Conference, Albuquerque, NM, December 2-5, 2009.

O'Connell, A.A., Reed, S., & Ren, W. (2009). "Fitting hierarchical generalized linear models (HGLM): Challenges and limitations." Presented at the Midwestern Educational Research Association (MWERA) Annual Conference, October 14-17, 2009, St. Louis, MO.

Li, J., & O'Connell, A.A. (2009). "Utilizing hierarchical linear modeling to investigate the relationship between student nutrition, weight, and mathematics outcomes." Presented at the Midwestern Educational Research Association (MWERA) Annual Conference, October 14-17, 2009, St. Louis, MO.

O'Connell, A.A., Amico, K.R., & Reed., S. (2009). The changing needs of community-based organizations replicating HIV prevention interventions: Implications for technology assistance. Paper presented at the National HIV Prevention Conference, August, 2009, Atlanta, GA.

Hahs-Vaghn, D. L. & O'Connell, A. A. (2009). "Analysis of complex samples using logistic regression and AM software." Presented at the American Educational Research Presentation (AERA) 90th Annual Meeting, April 13-17, 2009, San Diego, CA.

Zhao, J. & O'Connell, A.A. (2009*). "*Evaluation of teacher professional development: A cross-project and multilevel approach. Presented at the American Educational Research Presentation (AERA) 90th Annual Meeting, April 13-17, 2009, San Diego, CA.

*O'Connell, A.A. (2008). "The *S* Factor: How Researchers, Methodologists, and Measurement Scholars Build Capacity With a Foundation of Service." Invited presentation, Division D Fireside Chat. Presented at the American Educational Research Presentation (AERA) 89th Annual Meeting, March 24-28, 2008, New York, NY.

O'Connell, A.A. (2008). Discussant: Quantitative methods and statistical modeling. Presented at the American Educational Research Presentation (AERA) 89th Annual Meeting, March 24-28, 2008, New York, NY.

*O'Connell, A.A. (2008). "Rethinking graduate applied education statistics classes." Invited speaker, Educational Statisticians' SIG. Symposium presentation at the American Educational Research Presentation (AERA) 89th Annual Meeting, March 24-28, 2008, New York, NY.

Liu, X., O'Connell, A.A., & McCoach, D.B. (2008). "Teachers' Perceptions of Grading Practices: A Cross-Cultural Study in the U.S. and China." Paper presentation at the American Educational Research Presentation (AERA) 89th Annual Meeting, March 24-28, 2008, New York, NY.

O'Connell, A.A. & Fuhrel-Forbis, A.R., Dang, D.K. Hritcko, P.M., Clark-Dufner, P., Russell, C., & Gould, B. (2007). "Students' intentions to work with underserved populations and in interprofessional teams: Knowledge, attitudes, self-efficacy, and empathy." Paper presented at the 135th Annual Meeting of the American Public Health Association, Washington, DC, November 3-7, 2007.

Snyder, L.B., & O'Connell, A.A. (2007). "Exposure to alcohol advertising leads to earlier onset of alcohol use among youth." Paper presented at the 135th Annual Meeting of the American Public Health Association, Washington, DC, November 3-7, 2007.

Goldstein, J.A., O'Connell, A.A., & Behuniak, P. (2007). "An Exploration of the Relationship Between Selected Models of School Effectiveness and School Demographics." Paper presented at the 88th Annual Meeting of the American Educational Research Association, April 9-13th, Chicago, IL.

O'Connell, A.A. (2007). "Issues, Research, and Teaching for the Multilevel Analysis of Educational Data." Symposium organizer and presenter at the the 88th Annual Meeting of the American Educational Research Association, April 9-13th, Chicago, IL.

Zhao, J., O'Connell, A.A., Rong, Y., Moirs, K.A., & Fraser, C. (2007). "Inservice Training That Works for Teachers: Evaluating 13 Connecticut Professional Development Projects." Paper presented at the 88th Annual Meeting of the American Educational Research Association, April 9-13th, Chicago, IL.

*O'Connell, A.A. & Swaminathan, H. (2006). "Causal Modeling in Educational Research: Multilevel and Structural Equation Modeling." Invited Pre-session for the 37th Annual Northeastern Educational Research Association (NERA) Conference, October 18-20, 2006, Kerhonkson, NY.

*O'Connell, A.A. & McCoach, D.B. (2006) "Mini-course in Hierarchical Linear Modeling." Short course presented at the 37th Annual Northeastern Educational Research Association (NERA) Conference, October 18-20, 2006, Kerhonkson, NY.

*O'Connell, A. A., Ataya, R.L., Zhao, J., Liu, X., & Allen, S. (2006). "Web-based instruction for statistical power analysis." Invited presentation for the 7th International Conference on Teaching Statistics, Salvador, Brazil, July 2-7, 2006.

O'Connell, A.A. & Zhao, J. (2006). "Professional Development in the Interest of Student Learning: Preliminary Evaluation Findings." Results presented at the Closing the Achievement Gap conference, Storrs, CT, June 13, 2006.

Osborn, C., Fisher, J.D., Cruz, N., Amico, KR., O'Connell, A.A. (2006). "Using the IMB Model of Health Behavior Change to Promote Self-Management Behaviors in Puerto Ricans with Diabetes." Poster presented at the American Diabetes Association's 66th Scientific Sessions, Washington, DC, June 9-13, 2006.

O'Connell, A.A., Liu, X., Zhao, J., & Goldstein, J. (2006). "Residual Analyses for Proportional and Partial Proportional Odds Models." Paper presented at the 87th American Educational Research Conference Annual Meeting, San Francisco, April 2006.

Liu, X., McCoach, D.B., & O'Connell, A.A. (2006). "The Initial Validation of Teachers' Perception of Grading Practices." Paper presented at the 87th American Educational Research Conference Annual Meeting, San Francisco, April 2006.

O'Connell, A.A. (2005). "Using Continuation Ratio Models to Predict Ordinal Outcomes." Presented at the Methods Seminar, sponsored by the Roper Center for Public Opinion Research, University of Connecticut, October 3, 2005.

Liu, X. & O'Connell, A.A. (2005). "Using Multilevel Modeling for Change to Assess Early Children's Reading Growth Over Time." Paper presented at the 36th Annual Northeastern Educational Research Association (NERA) Conference, October 19-21, 2005, Kerhonkson, NY.

O'Connell, A.A. (2005). Measurement Session. Discussant at the 36th Annual Northeastern Educational Research Association (NERA) Conference, October 19-21, 2005, Kerhonkson, NY.

O'Connell, A.A. (2005). "Multiple Levels in Design and Analysis in Evaluating Replication Success: Issues, Perspectives, and Implications for Assessing Translation." Presented at the Capacity Building for Translation of Effective HIV Prevention Interventions, Storrs, CT, May 22-24, 2005.

O'Connell, A.A. (2005). Complex Sampling and Resampling Issues: Single and Multilevel Designs. Discussant at the 86th Annual American Educational Research Association Conference, April 10-15, Montreal, Canada.

Zhao, J., O'Connell, A.A.,& Liu, X. (2005). "Students' Use of Statistical Representations and Their Attitudes Towards Statistics: Investigating Relationships and Instructional Implications" Paper presented at the 86th Annual American Educational Research Association Conference, April 10-15, Montreal, Canada.

Goldstein, J. & O'Connell, A.A. (2005). "Investigating the relationship between classroom activities and student learning." Paper presented at the 86th Annual American Educational Research Association Conference, April 10-15, Montreal, Canada.

*Goldstein, J. & O'Connell, A.A. (2005). "The Influence of Teacher Practices on Students' Learning Outcomes in First Grade: A Logistic Hierarchical Linear Model." Invited Presentation for Woolatt Award Winner. Paper presented at the 86th Annual American Educational Research Association Conference, April 10-15, Montreal, Canada.

Fiala, K.A. & O'Connell, A.A. (2005). Treatment (Mail or Web-based) and Demographic Differences of Survey Responding and Non-responding Certified Athletic Trainers." Paper presented at the 86th Annual American Educational Research Association Conference, April 10-15, Montreal, Canada.

O'Connell, A. A. & Heybruck, K. (2004). "Agency Concerns Regarding Selection and Implementation of Proven Interventions for HIV Prevention." Presented to the Connecticut HIV Community Planning Group, December 2004.

*O'Connell, A.A. & Heybruck, K. (2004). "Replication of Effective Behavioral Interventions for HIV Prevention." Presented at three technical assistance workshops for the CT State Department of Public Health, November 8 – November 12, 2004.

Liu, X. & O'Connell, A.A. (2004). "An Application of HLM to Estimate the School and Children's Effects on Reading Achievement." Paper presented at the 36th Northeastern Educational Research Association (NERA) Annual Meeting, Kerhonkson, NY.

O'Connell, A.A., Liu, X., Goldstein, J. & Zhao, J. (2004). "Understanding Residual Diagnostics for Ordinal Regression Models." Paper presented at the 36th Northeastern Educational Research Association (NERA) Annual Meeting, Kerhonkson, NY.

Goldstein, J. & O'Connell, A.A. (2004). "The Influence of Teacher Practices on Students' Learning Outcomes in First Grade: A Logistic Hierarchical Linear Model." Paper presented at the 36th Northeastern Educational Research Association (NERA) Annual Meeting, Kerhonkson, NY.

Zhao, J., Behuniak, P., & O'Connell, A.A. (2004). "Advanced Placement (AP) Statistics: An Investigation of Patterns in Statistics Achievement." Paper presented at the 36th Northeastern Educational Research Association (NERA) Annual Meeting, Kerhonkson, NY.

Levitt, H., O'Connell, A.A., & McCoach, D.B. (2004). "Using Hierarchical Logistic Regression Procedures to Predict Enrollment in Full-Day Kindergarten." Paper presented at the 85th AERA Annual Meeting, San Diego, CA, April 12-16.

*O'Connell, A.A., Heybruck, K. & Cornman, D. (2004). "Agency Concerns Regarding Selection and Implementation of Proven Interventions for HIV Prevention." Presented to the Center for Health/HIV Intervention and Prevention, University of Connecticut, February, 2004.

*O'Connell, A.A. (2004). "HLM Evaluation methods for Project M." Presentation to graduate level class, GPAH 305. University of Connecticut.

O'Connell, A.A., Heybruck, K., & Cornman, D. (2003). "CBO Adoption and Adaptation Study: Identifying Barriers and Facilitators to Selection and Implementation of Effective Behavioral Interventions for HIV Prevention." Paper presented at the 131st American Public Health Association Meeting, San Francisco, CA, November 16-19.

O'Connell, A. A. & Heybruck, K. (2003). "Bridging the Research-Practice Divide: The BSSV Program for HIV Prevention." Paper presented at the 34th annual NERA conference, Kerhonksen, NY, October 2003.

Zhao, K. & O'Connell, A.A. (2003). "A Multilevel Model of Student Proficiency." Paper presented at the 34th annual NERA conference, Kerhonksen, NY, October 2003.

O'Connell, A.A., McCoach, D.B., Levitt, H. & Horner, S. (2003). "Modeling Longitudinal Ordinal Response Variables for Educational Data." Paper presented at the 84th AERA Annual Meeting, Chicago, IL, April 21-25.

McCoach, D.B & O'Connell, A.A. (2003). "An Examination of Students' Reading Growth Over the First Two Years of School Using Structural Equation Modeling and Hierarchical Linear Modeling Techniques." Paper presented at the 84th AERA Annual Meeting, Chicago, IL, April 21-25.

O'Connell, A. A. & Levitt, H. (2002). "Modeling Ordinal Response Variables for Multilevel Analyses." Paper presented at the 33rd Annual Northeastern Educational Research Association Annual Meeting, October 23-25, Kerhonkson, NY.

Levitt, H. & O'Connell, A.A. (2002). "Differential Outcomes on Measures of Reading Ability for Full-Day Versus Half-day Kindergarteners." Paper presented at the 33rd Annual Northeastern Educational Research Association Annual Meeting, October 23-25, Kerhonkson, NY.

Zhao, J. & O'Connell, A.A. (2002). "Computer Use in Statistics Education: A Literature Review." Paper presented at the 33rd Annual Northeastern Educational Research Association Annual Meeting, October 23-25, Kerhonkson, NY.

*O'Connell, A.A. (2002). "Hierarchical Linear Models for the Analysis of Longitudinal Data with Applications from HIV/AIDS Program Evaluation." Presented by G. Belli. Invited presentation for the 6th International Conference on the Teaching of Statistics (ICOTS-6), Durban, South Africa, July.

Cornman, D.H., Botticello, P.J., O'Connell, A.A., & Ataya, R.L. (2002). "Project M: A Sex-Positive Approach To Risk Reduction Among HIV+ Gay And Bisexual Men." Paper presented at the 14th National HIV/AIDS Up-Date Conference, San Francisco, CA, March 19-22.

*O'Connell, A. A., Ataya, R. L. (2002). "Results of Project M Intervention for HIV+ gay and bisexual Men." Presented to AIDS Project Hartford and AIDS Division Staff Members, Department of Public Health, CT, June.

O'Connell, A. A., Ataya, R. L., & Kulikowich, J.M. (2002). "Teaching Power Analysis through the *nQuery Advisor* Software." Paper presented at the AERA Annual Meeting, New Orleans, LA, April 1-5.

McCoach, D.B., O'Connell, A.A., Levitt, H., Zhao, J., & Reis, S.M. (2002). "A Multilevel Analysis Of The Effects Of Ability Grouping In Kindergarten Reading Using Base Year Data From The ECLS-K." Paper presented at the AERA Annual Meeting, New Orleans, LA, April 1-5.

*O'Connell, A. A. (2001). "Evaluated Interventions for HIV Prevention." Presentations to CT Department of Public Health Contractors Training, East Hartford, CT, November 11-17.

Ataya, R. L. and O'Connell, A. A. (2001). "The relationship among gender, grade level, and interest in social studies reading materials and content." Paper presented at the AERA Annual Meeting, Seattle, WA, April 10-15.

O'Connell, A. A. (2001). Discussant for Division D Paper Session: Refinements to Hierarchical Linear Models. AERA Annual Meeting, Seattle, WA, April 10-15.

O'Connell, A. A. (2001). Discussant for Educational Statisticians SIG Paper Session: Statistical Modeling and Factor Analysis. AERA Annual Meeting, Seattle, WA, April 10-15.

O'Connell, A. A. (2001). Chair for MLR/GLM SIG: The General Linear Model: Multiple Linear Regression Issues and Applications. AERA Annual Meeting, Seattle, WA, April 10-15.

*O'Connell, A. A. and Kelleher, J. (2001). "A Brief Introduction to Hierarchical Linear Modeling: Contextual and Longitudinal Analyses." Department of Psychology, Invited Presentation, UConn.

O'Connell, A. A. (2000). "Approaches to assessment in multivariate analysis." Symposium paper, AERA Annual Meeting, New Orleans, LA, April 24-28. [ERIC Document Number TM 031503].

Kulikowich, J.M, Young, M.F., O'Connell, A.A. Rezendez, G., & Archambault, F. X. (2000). "Many Theories, Many Methodologies: Blending Quantitative and Qualitative Procedures in the Study of Classroom Dynamics Involving Technology." AERA, New Orleans, LA, April 24-28.

Schrader, P.G. and O'Connell, A.A. (2000). "Introduction to Probability: A HyperCard Tutoring System." Presented at the 31st Northeastern Educational Research Association (NERA) Conference, October 25-27, Ellenville, NY.

*O'Connell, A. A. (2000). "Results of the Women and Infants Demonstration Trials: Mixed Model Analyses of Selected Condom Use Variables." Invited Presentation: Department of Psychology, University of Connecticut.

O'Connell, A. A. (1999). Discussant: "The Interplay among Schema Theoretic, Situated Cognitive, and Sociocultural Perspectives in the Study of Technology Utilization in Classroom Settings." Northeastern Educational Research Association: Ellenville, NY: October 27-29.

*O'Connell, A. A. (1999). Invited Presentation: "Logistic Regression Analysis." Department of Sport, Leisure and Exercise Sciences, University of Connecticut.

Lauby, J., O'Connell, A. A., Stark, M., and Adams, J. (1999). "Analysis of Cross-Sectional Surveys to Evaluate a Community-Level HIV Prevention Intervention for Women." Presented at the National HIV Prevention Conference: Atlanta, GA: Aug. 29-Sept. 1.

*O'Connell, A. A. (1999). "The Prevention of HIV in Women and Infants Demonstration Project: Evaluation Design and Application of a Mixed Model ANOVA." Research Design Seminar, University of Memphis, Department of Psychology.

O'Connell, A. A. (1998). Symposium Chair: "Methodological Issues for Sampling and Survey Design - Part I." Presenters: 5 graduate students from my seminar on Sampling and Survey Research Methods. Annual Meeting of the Mid-South Educational Research Association: New Orleans, Nov. 4-6.

O'Connell, A. A. (1998). Symposium Chair: "Methodological Issues for Sampling and Survey Design - Part II." Presenters: 4 graduate students from my seminar on Sampling and Survey Research Methods. Annual Meeting of the Mid-South Educational Research Association: New Orleans, Nov. 4-6.

O'Connell, A. A. (1998). "Sampling Issues in the Evaluation of Community-based HIV Prevention Interventions." Paper presented at the Symposium on Methodological Issues and Innovations in HIV Prevention Research, American Psychological Association Annual Convention: San Francisco, CA, August 14-18, 1998.

O'Connell, A. A. (1998). "Methods for the Analysis of Ordinal Outcome Variables: A Comparison of Approaches." Paper presented [by E. Rakow] at the Annual Meeting of the American Educational Research Association: San Diego, CA, April 13-17.

O'Connell, A. A. (1997). "Not a Spectator Sport: Constructing Knowledge through Practical Statistics." Paper presented at the Twenty-sixth Annual Meeting of the Mid-South Educational Research Association, Memphis, TN, November 12-14.

Padgett, L.S., and O'Connell, A. A. (1997). "Access to HIV/AIDS Information in a Mid-size Southern City." Paper presented at the 105th American Psychological Association Conference, Chicago, Illinois, August, 1997.

O'Connell, A. A. (1996). "Preliminary results from the Women and Infants Demonstration Project." Paper presented at the 1996 American Evaluation Association Conference, November 6-9: Atlanta, GA.

Lauby, J. Walls, Semaan, S., Walls, C., Cohen, A., Person, B., and O'Connell, A.A. (1996). "Correlates of self-efficacy for condom use among women at risk for HIV infection." Paper presented at the 1996 American Public Health Association Conference, November 17-24: New York, NY.

Semaan, S., Lauby, J., Walls, C., Cohen, A., O'Connell, A.A., and Person, B. (1996). "Correlates of decisional balance for condom use with main and other partners among women at risk for HIV infection." Presented at the 1996 American Public Health Association Conference, November 17-24: New York, NY.

O'Connell, A. A., Person, B., Adams, J., Terry, M., Spitler, H., Bond, L., and Rankin, W. (1996). "Characteristics and motivations of volunteers in a multi-site HIV prevention project for women at high risk for HIV infection." Paper presented at the XI International Conference on AIDS, July 7-12: Vancouver, Canada.

Tesselaar, H., O'Connell, A. A., Stark, M., Person, B., Cohen A., Walls, C., and Hembry, K. (1996). "Determinants of condom use among women at risk for HIV." Paper presented at the XI International Conference on AIDS, July 7-12: Vancouver, Canada.

Person, B., O'Connell, A. A., Bond, L., Rankin, W., Terry, M., and Mikells, C. (1996). "Involving the community: A model for community-level HIV prevention activities." Paper presented at the XI International Conference on AIDS, July 7-12: Vancouver, Canada.

O'Connell, A. A. (1996). "Overview of The Women and Infants Demonstration Projects." Paper presented during the CDC Workshop: Update on Reproductive Issues, at the Eighth Annual Conference on Social Work and HIV/AIDS, May 29-June 1: Atlanta, GA.

Semaan, S., Lauby, J., Walls, C., Cohen, A., O'Connell, A. A., and Person, B. (1996). "Correlates of Decisional Balance for Condom Use with Main and Other Partners Among Women at Risk for HIV Infection." Paper presented at the American Public Health Association Conference, November 18-22: New York, NY.

O'Connell, A.A., Saunders, P., and Nickey, J.A. (1996). "Formative evaluation of the HyperProb tutoring system for probability problem-solving." Paper presented at the Annual Meeting of the American Educational Research Association (AERA), April 8-12: New York. [ERIC Documentation Number ED 394-497].

Stark, M., Tesselaar, H., O'Connell, A.A., Person, B., Galavotti, C., Cohen, A., Walls, C., and Hembry, K. (1995). "Factors associated with condom use among women at risk for HIV infection." Paper presented at the Women and Infants Demonstration Projects Principal Investigators Meeting, CDC, October 11-13: Atlanta, GA.

O'Connell, A. A., and Langley, S. C. (1995). "Issues and strategies for successful program development and evaluation: The case of women and HIV/AIDS." Paper presented at the HIV Infection in Women Conference, February 22-24: Washington, DC.

Alberg, M., Ross, S. M., Smith, L. J., Nunnery, J., Hacker, D., O'Connell, A., Phillipsen, L., Horgan, D., and Stringfield, S.C. (1995). "Restructuring schools to improve educational outcomes: Formative

evaluation of the New American School Development Corporation Scale-up in Memphis City Schools." Paper presented at the annual meeting of MSERA, November, Biloxi, MS.

Nunnery, J., Ross, S. M., Smith, L. J., Gardner, D., Bol, L., Bond, C., Dietrich, A., O'Connell, A., Hacker, D., Phillipsen, L., and Agee, L. (1995). "The role and success of magnet schools in an urban district: An evaluation of varied school programs." Paper presented at the annual meeting of the Mid-South Educational Research Association, November, Biloxi, MS.

O'Connell, A. A. and Bol, L. (1995). "A HyperCard tutoring system for probability problem-solving." Paper presented at the Annual Meeting of the American Educational Research Association, April 17-21: San Francisco, CA . [ERIC Documentation Number ED 389-993].

Bol, L., and O'Connell, A. A. (1995). "An exploratory study of college students' study activities and their relationship to study context, reference course and achievement." Paper presented at the Annual Meeting of the American Educational Research Association, April 17-21: San Francisco, CA.

Nunnery, J.A., Gardner, C.D., Ross, S.M., Bol, L., O'Connell, A.A., et. al. (1994). "The role and success of magnet schools in an urban district: An evaluation of varied school programs." Paper presented at the Twenty-third Annual Meeting of the MSERA, November 9-11: Nashville, Tennessee

O'Connell, A. A. (1993). "A Comparison of the Use of Canonical Correlation Analysis and Additive Trees to Investigate the Relationships among Errors in the Domain of Probability Problem-Solving." Paper presented at the 22nd Annual Meeting of the MSERA, November 10-12: New Orleans, LA.

O'Connell, A. A., and Corter, J. E. (1993). "Student Misconceptions in Probability Problem-Solving." Presented at the Annual Meeting of the American Educational Research Association, April 12-16: Atlanta, Georgia.

Isserlis, J., and O'Connell, A. A. (1993). "The Humorous Preferences of College Teachers: A Pilot Study." Paper presented at the 84th Annual Meeting of the Eastern Communication Association, April 28-May 2: New Haven, Connecticut.

*SERVICE*

## International

*Addis Ababa University, Ethiopia.* 2013 to present. External advisor and external examiner for PhD students in College of Education and Behavioral Studies: Department of Psychology, Department of Educational Planning, and Department of Science and Mathematics Education (SMED).

*Editorial Board.* Ethiopian Journal for Education and the Behavioral Sciences. 2018 – present.

*International Committee*, Division D of the American Educational Research Association (AERA). Appointed February 2019.

## University Service

*Research Recovery Committee – Covid 19.* Representing the College of Education and Human Ecology.

*CETE Advisory Board*, Chair, May 2019 to present, Center for Education and Training for Employment, EHE/OSU.

*CETE Advisory Board*, Member, 2018 to present, Center for Education and Training for Employment, EHE/OSU.

*Chair*, Promotion and Tenure Committee (Department of Educational Studies), August 2016-2017. Member, 2014 – 2016.

*Chair*, QREM Faculty Search Committee, 2016-17.

*Faculty Advisory Committee*, Global One Health initiative (GOHi), OSU Office of International Affairs, appointed, 2016

*Fulbright Advisory Committee*, Office of International Affairs, 2015-present.

*University Computing Committee,* Spring 2014 – Fall 2016.

*Wolfe International Scholarship Awards Committee*, OSU, 2012-13.

*Member*, Promotion and Tenure Committee (Department of Educational Studies) 2007-2008 (alternate); 2008-2009; 2012-13.

*Institutional Review Board*, OSU, April 2010-2011.

*Program Head, QREM*, Two-year appointment, August, 2009-2011

*Judge*, Hayes Graduate Student Research Forum, OSU 2009 (reviewer)

## Other Professional Service: National or Ohio, Research Consultancies, and Appointments

*Ohio Department of Education – Statewide Evidence-based Interventions Committee.* April 2019 – present.

*US Department of Education*, Washington, DC., Peer Review Panel, Statistics and Modeling Scientific Review Panel 2018 – 2022.

*University of Northern Iowa* – Member, National Advisory Council for the Center for Educational Transformation. 2018 – 2019.

*State of Ohio*- Value-added Advisory Committe*e.* OH Department of Education, 2014-present.

*State of Ohio* – Growth Models Committee. OH Department of Education, 2015-present.

*US Department of Education*, Washington, DC., Peer Review Panel, Statistics and Modeling Scientific Review Panel 2011 – 2015.

*US Department of Education*, Washington, DC., Peer Review Panel, Postdoctoral Training and Early Career Development and Mentoring Scientific Review Panel, Feb 2013.

*US Department of Education*, Washington, DC., Peer Review Panel for the NCLB – Statewide Graduation Rates, February 16-18, 2010.

*National Institutes of Health* (NIH: NIGMS) Review Panel for *Research on Interventions that Promote Research Careers*. March 13, 2009, Washington, DC.

*US Department of Education*, Washington, DC. Chair, Peer Review Committee for the NCLB growth-model pilot program (April 2008). Revisions to growth-model guidance, August/September 2008.

*RFP WorkGroup*, Columbus Public Health Department, beginning January 2008. This group prepares the RFP for funded agencies providing HIV prevention models and interventions throughout Franklin county.

*Central Ohio HIV Prevention Alliance (formerly Columbus Regional Advisory Group (CRAG))*, Member, May 2008 - present. This community-planning board is an advisory group mandated through CDC to support and review HIV prevention activities throughout the Columbus and Franklin County region.

*US Department of Education*, Washington, DC. Member, Peer Review Committee for the NCLB growth-model pilot program (Spring 2007); Invited consultant for the Proficiency Index Meeting (September, 2007).

*George Washington University*, Washington, DC. Spring 2007. Statistical consultant on NICHHD-funded R01 research, "Contextual influences on sexual risk among Latino MSM." PI: M.C. Zea.

*Institutional Review Board*, Member, University of Connecticut, Storrs, CT, January to August, 2007.

*National Advisory Board Member*, for University of Minnesota NSF-funded Mathematics program effectiveness study ($MASP^2$) investigating impact of secondary-school curriculum on post-secondary mathematics and science achievement. (Autumn, 2006 to 2009). PI's include Tom Post and Michael Harwell.

*Advisory Board Member*, for annual Crossroads (community intervention and prevention) conference (June 2007) supported through the Institute for Community Research, Hartford, Connecticut.

*National Institutes of Health* (NIH) Review Panel for *Community Participation in Research*. November 29 – December 1, 2005, Bethesda MD.

*Academy for Educational Development* (AED), New York, NY. Fall 2004. Multilevel analyses for *Teacher Leaders for Mathematics Success*.

*Social Sciences and Humanities Research Council of Canada (SSHRC)* (2004). Proposal review panel.

*AIDS Project Hartford*, Hartford, CT. 2003-2004. Program evaluation for two HIV prevention interventions for MSM: *Project M* and *Positive Attitudes*.

*Connecticut State Department of Public Health*, Hartford, CT. 1999-2000. Evaluation of the *Evaluation Bank*, a capacity-building initiative for HIV prevention contractors throughout the State.

*Center for Public Health and Health Policy*, University of Connecticut 2004 to present: (1) *Advisory Board Member, Biostatistics Task Force*; (2) *Academic Program Development* (Core) Task Force.

*American Educational Research Association* (AERA), *Program Chair and President-elect*, Educational Statisticians Special Interest Group (ES-SIG); April 2003 to April 2005.

*Research Grant Proposal Reviewer* (2004): Social Sciences and Humanities Research Council of Canada.

*APA Division 5 Membership Committee* (Evaluation, Measurement and Statistics): Appointed for three year term (2002 – 2005). American Psychological Association.

*APA/BSSV National Advisory Committee*: Two-year appointment beginning January 2003 to the APA Behavioral and Social Science Volunteer program that provides guidance, training designs, and program ideas for evaluation and translation of effective HIV prevention interventions.

*Evaluation Committee Co-Chair*, APA/BSSV program. Co-Chair with Nancy Brown, Ph.D, Palo Alto Medical Foundation (PAMF) Research Institute. Designing the evaluation for the Behavioral and Social Science Volunteer program.

*Behavioral and Social Science Volunteer* (BSSV), 1999 to present. Provide (unpaid) technical assistance in behavioral theory, evaluation, and evidence-based practice/methods to HIV prevention community-based organizations and to Community Planning initiatives and consortiums. This volunteer program is co-sponsored by CDC and the APA Office on AIDS.

*Teacher Candidate Assessment Committee* (TCAC): Neag School of Education, University of Connecticut 2004 - 2005.

*NERA Board Member*: Elected for 3-year term, October 2002 - 2005. Northeastern Educational Research Association.

*Program Coordinator,* Measurement, Evaluation and Assessment, September 2003 – August 2006, Department of Educational Psychology, Univ. of Connecticut. New program opened September 2003.

*Program Coordinator*, Cognition and Instruction, Department of Educational Psychology, University of Connecticut. January, 2002 to January 2004.

*NERA 32nd Annual Conference Co-Chair* (with David Moss): 2000-2001. Northeastern Educational Research Association. Responsible for conference and session planning, coordinating key-note speaker and invited presenters; pre-session on *Finding a Job in Academia*.

## Proposal and/or Manuscript reviewer (ad hoc) for:

- *Educational Psychology*
- *Journal of Statistical Software*
- *American Journal of Evaluation*
- *Group Dynamics: Theory, Research and Practice*
- *Educational Evaluation and Policy Analysis*
- *Journal of Statistics Education*
- *Educational Computing Research*
- *American Educational Research Association* – Proposal Reviewer
    - Educational Statisticians SIG
    - Survey Research in Education SIG
    - Hierarchical Linear Modeling SIG
    - Division D (Measurement and Research Methodology)

*Judge (pre-OSU)*:

- University of Memphis Undergraduate and Graduate Research Forum, 1996-1999.
- University of Memphis Works in Progress Seminar (Undergraduate), 1998-1999.

## Conference or Symposium Organizer

*Interdisciplinary Methods Festival.* Weeklong conference on interdisciplinarity in research methods including hands-on workshops and presentations, a community forum on methods training at OSU, software workshops, and poster sessions. Conference organizer and Director, EHE Research Methodology Center, OSU. July 2017.

*Building Solutions to Poverty: Methods and Measures for Evaluating Success*. Program Chair. International Poverty Solutions Collaborative, OSU. October 2011.

*Service Learning and Statistics: Integrating Statistics Education into the Workplace*. Symposium organizer, Session 6F. 8th International Conference on the Teaching of Statistics. Ljubljana, Slovenia, July 11-16, 2010.

*Capacity Building for Translation of Effective HIV Prevention Interventions*. Conference organizer and chair. Invited speakers included national and regional scholars, federal and state public-health scientists and practitioners. Storrs, CT, May 22-24, 2005. Funded through the Center for Health Intervention and Prevention, UConn.

## Professional Organizations (Memberships and Offices Held)

American Educational Research Association

Educational Statisticians SIG – *Outreach, 2013-14, President, 2005-2006; Program Chair, 2004 - 2005*

Division D: Measurement and Research Methodology – member since 1993

International Committee: Division D: Measurement and Research Methodology, 2019 - present

Fulbright Association – member 2014 to present

Society for Research on Educational Effectiveness

American Psychological Association

Division 5: Evaluation, Measurement and Statistics – *Membership Chair, 2003-2004*

American Statistical Association

Section on Statistical Education

Behavioral and Social Science Volunteer Program – *Advisory Board, 2003 – 2005; Volunteer since 1998.*

Connecticut Area Program Evaluator's Network (CAPE.Net) (AEA Affiliate) – *Treasurer, 2004-2005*

Midwestern Educational Research Association (2008 to present)

National Peace Corps Association – member

Northeastern Educational Research Association – *Board Member, 2002 – 2005*

Ohio Program Evaluators' Group – *Board Member*, 2009-2012.

## Evaluation and Community Outreach and Service

*Investing in student wellness and success: Case studies to examine and improve impact* – Ohio Department of Education, 2020. (member of multisite evaluation team)

*Evaluation of Professional Development for the State of Ohio Supreme Court Judicial College.* 2010-2011.

*Evaluation of HIV/AIDS Care Consortium (Ryan White)*, State of Ohio, Ohio AIDS Coalition, September 2009 to April 2010.

*Evaluation of HIV/AIDS Care Consortium (Ryan White)*, State of Ohio, Ohio AIDS Coalition, September 2008 to April 2009.

*Evaluation of Interprofessional Education* (IPE) for University of Connecticut medical and health professions students; in collaboration with Connecticut Area Health Education Centers (CT-AHEC). Designing evaluation of IPE experiences and supervising work-study and independent study graduate student in implementing the evaluation, summer 2006 and AY 2006-07 and 2007-08.

*Evaluation of Connecticut's Teacher Quality Partnership Grants Program*. June 2004 – 2007. Multi-site, multi-year evaluation effort in collaboration with the Connecticut State Department of Higher Education and the State of Connecticut Department of Education.

Connecticut State Department of Higher Education. *Project Directors Evaluation Workshop for Teacher Quality Partnership Grants Program*. With J. Zhao and K. Moirs. April 2006.

Connecticut State Department of Higher Education. *Technical Assistance Workshop*. Presented on the evaluation model for the Teacher Quality Partnership Grants projects, with J. Zhao and K. Moirs. October, 2005 and October, 2006.

Connecticut State Department of Public Health. *Technical Assistance for Replication of Effective Behavioral Interventions for HIV Prevention: Workshop.* Presentation on effective behavioral interventions (EBIs) for HIV/AIDS prevention, adaptation, and tailoring of program models during Bidders Conference, with K. Heybruck. November, 2004.

Connecticut State Department of Higher Education. *Technical Assistance Workshop*. Presented on the proposed evaluation model for the Teacher Quality Partnership projects, with J. Zhao. October, 2004 and 2005.

State of Connecticut Department of Public Health, *AIDS Program Division. Evaluation Advisory Group*. July 2000 to 2003.

Urban Policy Strategies, HIV Evaluation Bank (funded by Connecticut Department of Public Health), New Haven, Connecticut. 2000-2001. Assisted with workshops and capacity-building meetings with CT HIV-prevention contractors.

*Memphis and Shelby County HIV/AIDS Consortium*, Memphis, TN. Evaluation Committee 1998, 1994-'95; Needs Assessment Committee and RFP/Grant Review Committee, 1994-'95.

*Community Forum Evaluation Committee*, Memphis, TN: Community service agency promoting collaboration among local organizations. (1997 to 1999)

*Memphis Inter-Faith Association*, Memphis, TN: Evaluation consultant for neighborhood revitalization/community organization project (1997).

*University of Memphis Community Collaboration* (co-Chair); Faculty, students, staff from CBOs and members of community meet monthly for exchange of ideas, workshop and student internship development (AY 1996-'97).

Optional Schools Program, *Site Evaluator*, Memphis City Schools: Center for Research in Educational Policy, University of Memphis, Memphis TN (1993-'95).

Measurement and Evaluation Consultant, and Data Analyst; Friends for Life HIV Resource Organization, Memphis, TN (1993 to 1999). *Volunteer of the Month*, December, 1995.

## Professional Development

*American Association of Colleges for Teacher Education* (AACTE), weeklong *Leadership Academy*, Providence, RI, June 2017

*AERA Statistics Institute for Faculty*. Selected for workshop provided through AERA and NSF, Capacity building for large-scale public-use data sets. July 2010.

*Fulbright Workshop for Faculty and Professionals*. Workshop provided through the Office of International Affairs, The Ohio State University. April 8, 2009.

*Building the NIH Grant Proposal*. Workshop provided through the Office of Extramural research, The Ohio State University. September 27, 2007.

*Mplus Short Course*, Johns Hopkins University, August 20-22, 2007

*NIH Conference on Building the Science of Dissemination and Implementation Research in the Service of Public Health*, Bethesda, MD, September 10-11, 2007.

*Dissemination and Implementation Research Workshop*: Harnessing Science to Maximize Health. National Institutes of Health, March 26, 2007.

American Psychological Association (APA) and Centers for Disease Control and Prevention (CDC) BSSV on-line *Training for Voices/Voces*, a clinic-based HIV-prevention intervention for Latino and African-American adults. December 2006.

Short-course: *Sample Size Analysis for Study Planning*. Rhode Island Chapter of the American Statistical Association. September 30, 2006.

American Psychological Association (APA) and Centers for Disease Control and Prevention (CDC) *Diffusion of Effective Behavioral Interventions* (DEBI) Training, New Orleans, LA, February 2005.

Short-course: Item Response Theory. University of Maryland. Two-day training on *Unfolding Models for IRT*. August, 2004.

American Psychological Association (APA) and Centers for Disease Control and Prevention (CDC) *Community Promise Coaching Institute for the BSSV Program*, New Orleans, LA, September 2003.

American Psychological Association (APA) and Centers for Disease Control and Prevention (CDC), Behavioral and Social Science Volunteer Program (BSSV), *Advanced Training: Effective Interventions*, New Orleans, LA, June/July 2002.

Department of Education, National Center for Education Statistics (NCES). *Training for the ECLS-K longitudinal databas*e. Funded through National Research Center on the Gifted and Talented (NRCGT), University of Connecticut. March 2001.

American Psychological Association and Centers for Disease Control and Prevention, Behavioral and Social Science Volunteer Program (BSSV), *Basic Training: Evaluation Guidance and HIV Prevention*, Atlanta GA, August, 1999.