

CURRICULUM VITAE

PERSONAL INFORMATION

Name William R. Buchanan, Ph.D.
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EDUCATION

Year 2011
Degree **Ph.D.**
Institution TUI University (Cypress, CA)
Advisor Cynthia García Coll
Concentration K–12 Educational Leadership
Dissertation *Statistical Modeling of The Effects of Micro-, Meso-, and Exosystem Poverty on Academic Achievement in Music.*

Year 2010
Degree **A.M.**
Institution Brown University (Providence, RI)
Advisor John Tyler
Major Urban Education Policy

Year 2008
Degree **M.A.Ed.**
Institution TUI University (Cypress, CA)
Advisor Leon Abbott
Major Teaching and Instruction

Year 2006
Degree **B.M.**
Institution Berklee College of Music (Boston, MA)
Advisor Dick Lowell (Jazz Composition) & Ronald Mahdi (Instrument — Bass)
Major Jazz Composition

DISSERTATION

Title *Statistical Modeling of The Effects of Micro-, Meso-, and Exosystem Poverty on Academic Achievement in Music*

Year 2011
Institution TUI University
Committee Chair Cynthia García Coll, Ed.D. (Brown University)

Committee Member
Committee Member

Kathleen Camara, Ph.D. (Tufts University)
Deborah Schreiber, Ph.D. (TUI University)

PUBLICATIONS
PEER REVIEWED

Article

Buchanan, W. R., Secolsky, C., Yager, C., Wang, S., Schoen, M., & Siddiqi, M. (*under review*). Improving Pass/Fail Decisions for Classroom Assessments Another Look at Angoff and Contrasting Groups Standard Setting Methods.

Article

Buchanan, W. R. (in revision). The brewscheme toolkit for Data Visualization in Stata. Submitted to *The Stata Journal*

Article

Del Campo, R., **Buchanan, W. R.**, Abbott, R. D., & Berninger, V. W. (2014). Levels of phonology related to reading and writing in middle childhood. *Reading and Writing: An Interdisciplinary Journal*. DOI: 10.1007/s11145-014-9520-5

PAPER
PRESENTATIONS

Article

Secolsky, C., **Buchanan, W. R.**, & Drane, W. (2015). The evolution of validity and modern psychometrics: Do we need to revisit item validity? *Paper presented at the International Association for Educational Assessment Annual Conference (Lawrence, KS)*.

Article

Buchanan, W. R. (2013, April). The Effect of Instrument Ownership on Musical Achievement. *Paper presented at the Proceedings of the American Educational Research Association Annual Conference (San Francisco, CA)*.

Research Report

Buchanan, W. R., Del Campo, R., and Morse, C. A. (2009). Designing a comprehensive assessment strategy for Rhode Island. *Presented at Race To The Top Assessment Competition Public Commentary Session (Boston, MA)*

INVITED
PRESENTATIONS

2019
Lexington, KY

KYACAC 38th Annual Conference: Being Ethical & Authentic in Higher Ed
Panelist

2018
Mesa, AZ

Hoonuit's Infinity Conference
Keynote Panelist

2018
Lexington, KY

National Student Clearinghouse's Using Data Analytics to Close Achievement Gaps for your Institution & Kentucky
Keynote Panelist

2016
Louisville, KY

Strategic Data Project Cohort 7 Workshop
Working in the [Data] Mines

PRESENTATIONS

2019	Strategic Data Project Annual Convening
Boston, MA	Fighting the Good Fight: Organizing Market Forces for Data Interoperability, Integration, & Privacy
Presenters	Amelia Vance, Erin Mote, Sean Casey, Mark Luetzelschwab, & William Buchanan
Role	Panel Organizer
2018	NCES STATS-DC Conference
Washington, D.C.	Identity: Let's Secure and Operationalize That!
Presenters	Shannon Kerlick & William Buchanan
2018	NCES STATS-DC Conference
Washington, D.C.	Link Violence & Crime Data with Student Outcomes at School
Presenters	Shanshan Wang & William Buchanan
2018	18 th Annual North American Stata User's Group Conference
Columbus, OH	Automating exploratory data analysis tasks with eda
2018	Strategic Data Project Annual Convening
Boston, MA	How can we make our data talk to one another? The perils and promise of data integration efforts.
Presenters	William Buchanan , Stephen Fedore, David Hersh, Christopher Leake, Alyssa Reinhart, & Bryan Shelly
2017	17 th Annual North American Stata User's Group Conference
Baltimore, MD	Stata extensibility with the Java API: Tools, examples, and advice
2017	Strategic Data Project Annual Convening
Boston, MA	Using Git to Promote Collaboration and Reproducible Research
2017	Strategic Data Project Annual Convening
Boston, MA	Open Agenda: Developing a Research Agenda in Your Education Agency
2016	Scott Trimble Assessment Workshop
Louisville, KY	Intro to Item Response Theory Using Open Source Solutions
2016	16 th Annual North American Stata User's Group Conference
Chicago, IL	Interactive data visualization for the web: Using jsonio, libd3, and libhtml to create reusable D3js graphs
2016	Beyond the Numbers Convening at the Center for Education Policy Research's Strategic Data Project
Boston, MA	Becoming a Better Data Communicator: Stata Data Visualization

2015 Columbus, OH	15 th Annual North American Stata User's Group Conference Brewing color schemes in Stata: Making it easier for end users to customize Stata graphs.
2014 Boston, MA	14 th Annual North American Stata User's Group Conference Using Stata for educational accountability and compliance reporting.
2013 Seattle, WA	Society for Research in Child Development Biennial Meeting Musical Development in Context: Mesosystem Poverty and the 2008 NAEP Music Assessment.
2013 San Francisco, CA	American Educational Research Association Annual Conference The Effects of Instrument Ownership on NAEP 2008 Music Assessment.
2013 Portland, OR	Northwest Division of the National Association for Music Education Conference Program Evaluation in Music Education
2010 Brown U.	Facing New Challenges in Urban Education Policy Developing a Curriculum Framework for Urban Music Educators: The Role of Student and Community Cultural Capital in Supporting Learning
2010 RI College	Rhode Island Music Educators Association (RIMEA) Spring In-Service Conference Cultural Relevance in Music Education: Implications for Teachers of Diverse Learners
2009 Boston, MA	Public Commentary for Race To The Top Assessment Competition Developing a Robust System of Educational Standards and Assessment: Suggestions for Race To The Top Assessment Competition
2009 Brown U.	Annenberg Institute for School Reform Summer Practicum Conference Expanded Learning Time Initiative: Results from Urban Education Policy Summer Practicum
SOFTWARE	
STATA	
Data Visualization	brewscheme: A Toolkit for data visualization
Data Visualization	eda: Exploratory Data Analysis
Data Processing	Tools for normalizing and munging Kentucky School Report Card Data
Data Visualization	D3 Mata Library
Development Tools	HTML Mata Library
Data Processing	irscharities: Accessing 501(c)(3) Tax Data from Stata
R	
Data Munging	Regular Expressions with Pipes
Data Visualization	Data Visualization Illustration of Equipercentile Linking
Data Visualization	Mississippi Statewide Accountability System Explorer

Webscraping	Scraping Publicly Released Data Files from Rhode Island Department of Education
JAVA	
Development Tools	Stata Maven Archetype for Java Plugins
System Tools	Stata File System Tools
Data Processing	JSON Serializer/Deserializer for Stata
Development Tools	Java API for Simplified Access to Stata's Java API
Data Processing	Phonetic String Encoding and String Distance Metrics for Stata
Data Processing	Interface to Java Regular Expression Tools from Stata
System Tools	A JavaMail Interface for Stata
System Tools	Operating System Access Tools for Stata
Psychometrics	Stata Interface to the Java Psychometrics Library
PYTHON	
Webscraping	Example of using Selenium for Webscraping in Python
Webscraping	Scraping Data From US State Education Agency Websites
SQL	
Data Modeling	PostgreSQL Common Education Data Standards
JAVASCRIPT	
Data Visualization	D3.js Example of FCPS Polygon Layers
Data Visualization	D3.js Interactive Map of MS Accountability System Results
TEACHING	
Period	2013–2015
Position	Adjunct Professor
Institution	Jackson State University (Jackson, MS)
Department	College of Education and Human Development
Courses	Elementary Statistics (ED514)
Level	Graduate
EXPERIENCE	
Period	2018–present
Organization	Relay Graduate School of Education , New York City, NY
Title	Consultant
Duties	Support internal staff in the development of automated reporting systems Provide training in computer programming to internal staff to develop internal capacity and ensure seamless project handoff Assist internal staff in developing workflow documents, unit and smoke tests, and reporting tools to monitor data quality in batch processes
Period	2016–present
Employer	Fayette County Public Schools , Lexington, KY
Title	Director of Data, Research, & Accountability

Duties	<p>Leading the development and deployment of predictive analytic models to improve services and supports provided to 42,000+ students</p> <p>Represents the district in international standards organizations focusing on data integration</p> <p>Developing psychometric training opportunities for classroom educators to learn how implementing the modified Angoff method can improve the quality of the assessments developed at the building and classroom levels</p> <p>Leading the development and implementation of an enterprise-class data warehouse to increase access and availability of data and analytical tools for all staff in the district</p>
Period	2015–2016
Employer	Minneapolis Public Schools , Minneapolis, MN
Title	Data Scientist, Office of Research, Evaluation, & Assessment
Duties	<p>Developed programs to expand Item Response Theory capabilities of Stata</p> <p>Developed a complete port of the D3js API in Mata (https://github.com/wbuchanan/d3mata) along with examples to help others use object oriented approaches to developing reusable data visualizations (https://github.com/wbuchanan/d3mata-examples)</p> <p>Developing and writing stored procedures and functions for SQL Server RDBMS implementation</p> <p>Ported the Common Education Data Standards database Schema to PostgreSQL (free and open source relational data base management system)</p> <p>Provide analytical support to the Office of Black Male Student Achievement</p> <p>Developed program to automate exploratory data analysis to reduce analyst time/effort to generate comprehensive visualizations and tables from data set (https://github.com/wbuchanan/eda)</p>
Period	2013–2015
Employer	Mississippi Department of Education , Jackson, MS
Title	Strategic Data Project Data Fellow
Duties	<p>Reviewed RFP submissions for grade level and end of course general education assessments for technical rigor, psychometric soundness, and alignment with State and Federal school accountability requirements</p> <p>Reviewed RFP submissions for grade level and end of course alternate assessments for technical rigor, psychometric soundness, and alignment with State and Federal school accountability requirements</p> <p>Programmed State of Mississippi’s School and District Accountability System</p> <p>Developed interactive training materials and led data analysis workshops to improve capacity for data analysis</p> <p>Built customized analytics stack on Ubuntu server to provide increased access to GIS, statistical analysis, text analysis, and data visualization applications to internal staff</p> <p>Developed interactive tools for displaying, reporting, and analyzing data about schools and communities</p> <p>Developed R package for accessing, storing, and cleaning legislative data</p> <p>Developed Stata program for accessing, cleaning, and formatting data on non-profit organizations to facilitate community-school partnerships</p>

Period	2012–2013
Employer	Brown University , Providence, RI
Title	Consultant
Duties	<p>Research and review best-practices in University–Community partnerships and public policy focused on increasing high school graduation</p> <p>Collaborate with members of the Brown University faculty/staff and representative’s from Mayor Taveras’ office to organize and implement a comprehensive and systemic array of programs to support the Mayor’s <i>Graduate Providence</i> campaign</p> <p>Develop and draft internal and external communications to build widespread support for program development, engagement, and innovation</p> <p>Assisted the Director of Education Outreach in the coordination of education outreach events and programs, such as the Day at College program for local middle school students</p> <p>Drafted, proofread, and edited outgoing correspondence to alumni, students, and other stakeholders in the Urban Education Policy Program, including a program oriented newsletter</p> <p>Developed, implemented, and analyzed an alumni survey assessing program quality and post-program success</p>

Period	2012–2013
Employer	The BERC Group
Position	Research Associate
Duties	<p>Created data visualizations for Seattle Public School’s Arts program funded by the Wallace Foundation</p> <p>Programmed data analysis required for WA state arts education initiatives being evaluated by the BERC Group</p> <p>Led several mixed-methods needs assessments of focus/priority schools across WA State</p> <p>Analyzed data in support of US Department of Education Arts in Education Model Development and Dissemination grant</p> <p>Developed custom web-scrapers in Python to collect and build a large longitudinal database from WA State Department of Education (OSPI) school report cards</p> <p>Authored a custom suite of programs for data management, cleaning, processing, and graphic production using Stata 12 MP resulting in 99% decrease in production time for the company’s major workflow</p>

Period	2011–2012
Employer	Help With Statistics , http://www.helpwithstatistics.com
Title	Independent Contractor/Consultant

Duties	<p>Provided consulting services to PhD students in the area of research methodology, quantitative analysis, qualitative analysis, and scientific computing leading to a 100% of clients successfully completing and defending their dissertations</p> <p>Provided consulting services to college/university Faculty and independent researchers focused on quantitative analysis, research methodology, and programming data cleaning/analysis tasks</p> <p>A list of selected projects, along with the institutional affiliation and role of clients is provided below:</p>
Institution	Columbia U
Role	Faculty
Field	Urban Planning/Design
Methods	Panel Data Econometrics; Data Munging; Data Management
Summary	Recommended and programmed the methodology used to estimate longitudinal community effects on business development and growth
Institution	U Penn
Role	Faculty
Field	Business/Marketing
Methods	Panel Data Econometrics; Model Cross Validation
Summary	Recommended and programmed the methodology and analysis to estimate the effectiveness of different marketing strategies on Broadway plays/musicals
Institution	UC Riverside
Role	PhD Student
Field	Higher Education
Methods	SEM; ANOVA; ANCOVA
Summary	Assisted with developing methodology used to measure professionalism in undergraduate students and estimate differences in professionalism across academic majors
Institution	UGA/Federal Bureau of Prisons
Role	PhD Student / Pre-Doc Intern
Field	Psychology
Methods	SEM; Mediation / Moderation; Bootstrapping
Summary	Programmed and modified the methodology used for a study how problematic alcohol use mediates the effect of psychopathic traits on alcohol related aggression
Institution	U of Cincinnati
Role	PhD Student
Field	Clinical Psychology
Methods	Data Management / Programming
Summary	Wrote a program to perform all of the data cleaning/munging tasks needed for the research team
Institution	U Illinois at Chicago
Role	PhD Student

Field	Special Education
Methods	Nonparametric statistics; social networking; bootstrapping; programming
Summary	Developed customized programs to implement bootstrap methods on non-parametric procedures used to test hypotheses regarding the differences in social networks between students with ASD diagnoses and other students
Institution	Wagner College
Role	Faculty
Field	Business Management
Methods	Measurement tool development; t-Tests
Summary	Recommended and programmed methodology used to study inter-rater reliabilities of partial-credit rating scale as well as testing program effects across intervention/control groups
Institution	Argosy U
Role	PhD Student
Field	Education
Methods	SEM; Measurement Invariance
Summary	Programmed multi-group SEM models to test for cross-cultural measurement invariance of a leadership measurement tool
Institution	GWU
Role	Staff
Field	Public Policy/Higher Education
Methods	Nonlinear predictive modeling
Summary	Built models to test the predictive properties of student demographic and survey data on the probability of being an alumni donor
Institution	U Maryland College Park
Role	PhD Student
Field	Business
Methods	Survival Analysis; Data Management/Munging
Summary	Provided programming support to manage and set up data to fit a Cox proportional Hazards model to the data and mentored the student in the interpretation of the model and results
Institution	UT Dallas
Role	PhD Student
Field	Public Policy / Political Economy
Methods	SEM; Mediation Analysis; Survey Data Analysis
Summary	Worked with student to develop an SEM to test hypotheses regarding the mediating effect from an additional program on job wages of youth job corps participants
Institution	Syracuse U
Role	PhD Student
Field	Business / Management
Methods	Data Reduction; random/fixed effects models; panel data econometrics

Summary	Provided recommendations for implementing data reduction methods for student to complete dissertation research related to the role corporate boards play in executive compensation and effectiveness in context of firms within industries and across time
Institution	NY Medical College
Role	PhD Student
Field	Public Health, Health Policy / Management
Methods	Mixed-methods; case study
Summary	Provided guidance in using administrative data from private health providers along with interviews to study village models of hospice care
Institution	U of Ghent-Belgium
Role	Faculty
Field	Community Health
Methods	Measurement Models
Summary	Selected and implemented methodology from the medical literature used to determine the reliability of physiological measurement tools (e.g., height/weight) used in field hospital locations
Institution	DOD
Role	Staff
Field	Clinical Psychology
Methods	Nonlinear predictive modeling
Summary	Guided researcher affiliated with DoD on the selection, fitting, and evaluation of models used to predict the effect of the length of a spouse's deployment on the development of depressive symptomology
Period	2011–present
Employer	Performing Arts & Creative Education Services Consulting
Title	Executive Director
Duties	Founded 501(c)(3) dedicated to supporting educational research with an emphasis on the Fine and Performing Arts Established research partnership with Evergreen Learning to support implementation of early childhood education professional development and research programs in the Commonwealth of the Northern Mariana Islands
Period	2010–2012
Employer	Self
Title	Independent Consultant
Duties	A list of selected projects is provided below:
Client	Brown University
Project	Graduate Providence Campaign

Responsibilities

- Research and review best-practices in University–Community partnerships and public policy focused on increasing high school graduation
- Collaborate with members of the Brown University faculty/staff and representative’s from Mayor Taveras’ office to organize and implement a comprehensive and systemic array of programs to support the Mayor’s Graduate Providence campaign
- Develop and draft internal and external communications to build widespread support for program development, engagement, and innovation

Client
Project
Responsibilities

Brockton Public Schools
Program Evaluation of 21st Century Community Learning Centers (CCLC)

- Analyzed data to support causal inferences of the effectiveness of the district’s 21st CCLC program using quasi-experimental methods
- Provided client with scripts that would allow the analysis to be replicated
- Developed comprehensive data visualizations and tabular displays of disaggregated survey data
- Provided client with policy recommendations and interpretation of the analysis centered on policy implications

Client
Project
Responsibilities

Rhode Island College Crusade
Analysis to support GEARUP Application

- Prepared focus group findings for use and support of a \$6m GEARUP grant application
- Conducted focus groups with program participants in the 12th and 8th grades
- Analyzed, transcribed, and reported findings from the focus groups to identify emerging themes focused on areas for improvement, success of the program, and strengths of the program

Client
Project

Providence Public Schools Department
Data Packet Development for Turnaround Schools

Responsibilities

- Worked independently to help produce data packets for five turnaround schools in a mid-sized urban district (> 24,000 students)
- Gathered and analyzed data from parent surveys to assess and evaluate parent inclusion and participation in school reform practices
- Used SPSS to provide comprehensive overview of three years of assessment data (including DIBELS, SAT10, NECAP, and English Language Proficiency assessments) including overall and disaggregated descriptions of the data

Period

2009–2010

Employer

Office of U.S. Senator Sheldon Whitehouse (D-RI), Providence, RI

Title

Intern/Research Fellow

Duties

Provided education research and policy analysis support to the Senator and legislative staff.
Created policy briefs on Out of School Time (OST) and Extended Learning Time (ELT) programs and policies.
Reviewed pending legislation and made recommendations for legislative amendments to bills.

Period

2006-2009

Employer

US Army, Wiesbaden, Germany

Title

1st Armored Division Band Training Non-Commissioned Officer

Duties

Developed concert band arrangement of the Kurdish national anthem for 1st Armored Division band performances across the Kurdish Regional Government territories in Northern Iraq
Composed and Premiered original music for cultural diplomacy mission across Multi National Division North
Performed for Iraqi civilians and political leaders throughout provinces across northern Iraq
Coordinated, planned, and implemented training programs in accordance with US Army regulations
Provided customized training and instruction in music performance while deployed to Iraq
Volunteered with members of US Department of State to develop protocols for the transfer of musical instruments to Iraqi civilian organizations and support music education opportunities for Iraqis

Period

2010–2010

Employer

Providence After School Alliance, Providence, RI

Title

Consultant

Duties	<p>Prepared reports and presentations for a variety of audiences using summarized findings, graphic representations of the data, and detailed reporting of all data mining tasks and procedures</p> <p>Analyzed longitudinal data for over 3,000 students in Stata to assess whether programming was related with changes in behavioral outcomes</p> <p>Provided assistance to senior level staff to better understand the statistical methods</p>
AWARDS	
2013	Strategic Data Project Data Fellow (Center for Education Policy Research at Harvard Graduate School of Education)
2010	Inducted into Kappa Delta Pi International Honors Society in Education
2010	Inducted into Pi Lambda Theta International Honors Society in Education
2009	Urban Education Fellow in Urban Education Policy (Brown University)
2009	Good Conduct Medal (US Army)
2008	Combat Action Badge (US Army)
2008	Personal Recognition from US Ambassador to Iraq (US Army)
2008	Army Commendation Medal 3 rd Award (US Army)
2008	Army Achievement Medal (US Army)
2006	Berklee Achievement Scholarship (Berklee College of Music)
2005	Berklee Achievement Scholarship (Berklee College of Music)
2004	Berklee Achievement Scholarship (Berklee College of Music)
2003	RI College Crusade Scholarship (Providence, RI)
2001	Charles A. Morvillo Memorial Scholarship (Providence, RI)
2001	John Hope Settlement House Alumni Scholarship (Providence, RI)
2001	Dr. Vincent A. Cianci Memorial Scholarship (Providence, RI)
2001	American Greetings Scholarship for Community Service (Providence, RI)
SKILLS	
Statistical Software	Stata, MPlus, HLM, LISREL, R, Python, Julia, QGIS, Tableau, G*Power, NVivo8, WEFT QDA, & TAMS Analyzer
Programming Languages	Stata (Advanced), R(Intermediate), Java(Intermediate), Javascript (Intermediate), & Julia (Beginning)
Web, Design, and Publishing Software	Dreamweaver, L ^A T _E X2 _ε , Adobe InDesign, Adobe Illustrator, Adobe Photoshop, & MS Publisher 2010
PROFESSIONAL AFFILIATIONS	
2019–Present	Ed-Fi Alliance
Committees:	<i>Governance Advisory Team (RVWG Representative)</i>
Work Groups:	<i>Reporting & Visualization Work Group (RVWG) (Co-Chair)</i>
2018–Present	IMS Global — Institutional Representative
Task Forces:	<i>Results Management & Reporting Task Force (Co-Chair)</i>

Committees:	<i>Executive Board on Assessment</i> <i>K-12 Institutional Leadership Board</i> <i>State Assessment Innovation Leadership Network</i> <i>QTI/APIP Work Groups</i>
2016–Present	National Council on Measurement in Education — Member
2012–Present	Society for Research in Child Development — Member
Caucuses:	SRCD Latino Caucus (starting 2019)
2011–Present	American Educational Research Association — Member
Divisions:	<i>D - Measurement and Research Methodology</i> <i>E - Counseling and Human Development</i> <i>H - Research, Evaluation, and Assessment in Schools</i>
2011–Present	Washington Educational Research Association — Member
2011–Present	American Psychological Association — Associate Member
Division	<i>5 - Quantitative and Qualitative Methods</i> <i>7 - Developmental Psychology</i> <i>10 - Society for the Psychology of Aesthetics, Creativity, and the Arts</i> <i>15 - Educational Psychology</i>
2010–Present	Pi Lambda Theta Intl. Honors Society in Education — Inductee
2010–Present	Kappa Delta Pi Intl. Honors Society in Education — Inductee
2009–2012	National Association for Music Educators — Member
2009–2011	Society for Research in Music Education — Member
SRIG:	<i>Social Science, Learning and Cognition, & Human Development</i>
2009–2010	Gordon Music Learning Institute — Student Member
2009–2010	American Orff-Schülwerk Organization — Student Member
2009–2010	Organization of American Kodály Educators — Student Member
2009–2011	RI Music Educators Association — Student Member
 SERVICE	
Professional	Reviewer
2018	USED Expert Peer Reviewer for ESSA Accountability Plan and Innovative Assessment Demonstration Plans
2017	Reviewed chapter on multilevel modeling appearing in : Lu, Y., Weinberg, S. L., & Scott, M. A. (2017). Multilevel Linear Modeling in Higher Education Contexts. In <i>Handbook on Measurement, Assessment, and Evaluation in Higher Education</i> , Eds. Charles Secolsky & Denison, D. B.
2013–Present	Teachers' College Record
2013–Present	Conference proposals for 2013 AERA Annual Meeting: Division C Section 1b – Humanities, Social Sciences, and Fine Arts; Division G Section 5 – Social Context of Research on Schools and Communities; Division L Section 3 – Curriculum, Testing, and Instructional Practice; Adolescent and Youth Development (SIG); Arts and Learning (SIG); Charter School Research and Evaluation (SIG); NAEP Studies (SIG); and Urban Learning, Teaching, and Research (SIG)
2013–Present	Conference proposals for 2013 SRCD Annual Meeting: Ethnicity Race and Culture panel