Will Tyson

#### Curriculum Vitae

##### Department of Sociology Fax: (813) 974-6455

##### University of South Florida

4202 E. Fowler Ave., CPR 107

Tampa, FL 33620 e-mail: [wtyson@usf.edu](mailto:wtyson@usf.edu)

# Academic Positions

Associate Professor, Department of Sociology, University of South Florida, 2012-present.

Assistant Professor, Department of Sociology, University of South Florida, 2005-12.

# NSF Post-doctoral Research Associate, Alliance for Applied Research in Education and Anthropology (AAREA), Department of Anthropology, University of South Florida, 2005.

# NSF Post-doctoral Research Associate, David C. Anchin Center, College of Education, University of South Florida, 2004-05.

# Education

## Ph.D. Sociology, Duke University, 2004

Dissertation: *Roommate and Residence Hall Racial Composition Effects on Interracial Friendships Among First-Year College Students*.

GradCert Women’s Studies, Duke University, 2003

## M.A. Sociology, Duke University, 2001

##### B.A. Sociology and Psychology, Wake Forest University, 1998

# Publications

**Refereed Journal Articles**

Tyson, Will and Josipa Roksa. 2017. “Importance of Grades and Placement for Math Attainment.”*Educational Researcher* 46(3): 140-142.

Fletcher, Edward and Will Tyson. 2017. “Bridging Technical Skills Gaps between High School Students and Local Employers.” *Journal of Research in Technical Careers* 1(1): 20-31.

Fletcher, Edward and Will Tyson. 2017. “A Longitudinal Analysis of Young Adult Pathways to STEMH Occupations.” *Career and Technical Education Research* 42(1): 35-55.

Tyson, Will and Josipa Roksa. 2016. “How Schools Structure Opportunity: The Role of Curriculum and Placement in Math Attainment.”*Research in Social Stratification and Mobility* 44: 124-135.

Tyson, Will. 2011. “Negative Impact of Employment on Engineering Student Time Management, Time to Degree, and Retention:  Faculty, Administrator, and Staff Perspectives.” Journal of College Student Retention: Research, Theory & Practice 13(4): 479-498*.*

Tyson, Will. 2011. “Modeling Engineering Degree Attainment Using High School and College Physics and Calculus Coursetaking and Achievement.” *Journal of Engineering Education* 100(4): 1-18.

Tyson, Will and Kathryn M. Borman. 2010. “‘We’ve All Learned a Lot of Ways Not to Solve the Problem’: Perceptions of Science and Engineering Pathways among Tenured Women Faculty”. *Journal of Women and Minorities in Sciences and Engineering* 16(4): 275-291.

Carter-Edwards, Lori, Dionne C. Godette, Sumitra Shantakumar White, and Will Tyson. 2009. “A Conceptual Framework for Studying Alcohol Intake and Blood Pressure on Historically Black College and University Campuses.” Journal of Drug Education 39(2): 149-165.

Tyson, Will, Reginald Lee, Kathryn Borman, and Mary Ann Hanson. 2007. “Science, Technology, Engineering and Mathematics (STEM) Pathways: High School Science and Math Coursework and Postsecondary Degree Attainment.” *Journal of Education for Students Placed At Risk* 12(3): 243–270.

# Works in Progress

Tyson, Will. *Teaching and Learning Employability Skills in Career and Technical Education: Industry, Educator, and Student Perspectives*. Under contract with Palgrave Macmillan for inclusion in the Palgrave Studies in Urban Education series.

Fletcher, Edward C. and Will Tyson. 2019. “Examining Enrollment Decisions and Life Challenges of Adult Learners in Advanced Technologies Programs.” Revise and resubmit from *Journal of Vocational Education & Training*.

# Books

Borman, Kathryn M., Will Tyson, and Rhoda Halperin, eds. 2010. Becoming an Engineer in Public Universities: Pathways for Women and Minorities. New York: Palgrave MacMillan Ltd.

# Book Chapters or Segments of a Book

Martinez, Vanessa, Michelle Hughes Miller, Will Tyson. 2014. “Analyzing STEM Faculty Demographics and Faculty Climate Survey.” Pp. 79-96 in *Alliances for Advancing Academic Women: Guidelines for Collaboration in Chemistry, Engineering and Beyond*, edited by Penny Gilmer, Michelle Hughes Miller, and Kathryn Borman. Rotterdam, The Netherlands: Sense Publishers.

Borman, Kathryn M., Rhoda H. Halperin, and Will Tyson.  2010.  “Introduction: The Scarcity of Scientists and Engineers, a Hidden Crisis in the United States.” Pp. 1-20 in *Becoming an Engineer in Public Universities: Pathways for Women and Minorities*, edited by Kathryn M. Borman, Will Tyson, and Rhoda Halperin. New York: Palgrave MacMillan Ltd.

Cotner, Bridget A., Cassandra Workman Whaler, and Will Tyson. 2010.  “Producing STEM Graduates in Florida: Understanding the Florida Context.” Pp. 21-52 in *Becoming an Engineer in Public Universities: Pathways for Women and Minorities*, edited by Kathryn M. Borman, Will Tyson, and Rhoda Halperin. New York: Palgrave MacMillan Ltd.

Tyson, Will, Chrystal A. S. Smith, and Arland Nguema Ndong. 2010.  “To Stay or to Switch? Why Students Leave Engineering Programs.” Pp. 53-80 in *Becoming an Engineer in Public Universities: Pathways for Women and Minorities*, edited by Kathryn M. Borman, Will Tyson, and Rhoda Halperin. New York: Palgrave MacMillan Ltd.

Borman, Kathryn M., Will Tyson, and Cassandra Workman Whaler.  2010.  “Voices from the Field: Strategies for Enhancing Engineering Programs.” Pp. 173-190 in *Becoming an Engineer in Public Universities: Pathways for Women and Minorities*, edited by Kathryn M. Borman, Will Tyson, and Rhoda Halperin. New York: Palgrave MacMillan Ltd.

Lee, Reginald, Kathryn M Borman, and Will Tyson. 2007. “Florida’s A+ Plan: Education Reform Policies and Student Outcomes.” Pp. 241-280 in Educational Reform in Florida: Diversity and Equity in Public Policy, edited by Kathryn M. Borman and Sherman Dorn. Albany, NY: State University of New York Press.

Tyson, Will. 2007. “Race/Ethnicity and Friendship.” *Encyclopedia of Sociology*, edited by George Ritzer. Oxford: Blackwell Publishing.

Tyson, Will. 2002. “Understanding the Margins: Marginality and Social Segregation in Predominantly White Universities.” Pp. 307-322 in *The Quality and Quantity of Contact: African Americans and Whites on College Campuses*, edited by Robert M. Moore III. Lanham, MD: University Press of America.

# Book Reviews

Tyson, Will. 2015. “Review of *The Changing Politics of Education: Privatization and the Dispossessed Lives Left Behind* by Michael Fabricant and Michelle Fine.” *Contemporary Sociology* 44(2):193-194.

Tyson, Will. 2010. “Review of *The Unchosen Me: Race, Gender, and Identity among Black Women in College* by Rachelle Winkle-Wagner.” *American Journal of Sociology* 116(3): 1035-1037.

**Other Publications**

Marrow, Helen B., Will Tyson, Susan C. Pearce, Martha Crowley, and Kim Ebert. 2018. “[Is Unauthorized Immigration an Economic Drain on American Communities? Research Says No](https://contexts.org/blog/unauthorized-immigration-local-economies/).” *Contexts Blog,*May 21.

**Research Grants Awarded**

**As Principal Investigator:**

National Science Foundation (DUE #1801163)

“PathTech LISTEN: Mixed Methods Longitudinal Investigations of Students in Technician EducatioN”

* Principal Investigator: Will Tyson
* Co-Principal Investigators: Lakshmi Jayaram and Marilyn Barger
* $799,858 (October 2018 – September 2021)

PathTech LISTEN seeks to advance knowledge of pathways into and out of technician education by conducting longitudinal interviews and a follow-up survey with students who were previously enrolled in community college technician education programs. This project attempts to better understand (1) factors that motivated students to pursue technician education, (2) how students faced academic and personal challenges while enrolled, and (3) post-enrollment educational and employment outcomes. This project will also examine technician education program best practices associated with recruitment, retention, and tracking student post-enrollment outcomes. The interview sample will be drawn from respondents to the PathTech LIFE survey, a national survey administered to 3,216 students enrolled in 96 participating community colleges from January 2017 to June 2018. Research on students and collecting information on program policies will allow this project to gain important insight on how programs facilitate student outcomes. In addition, this study draws from a diverse cohort of students from all manner of demographic backgrounds and life experiences.

National Science Foundation (DUE #1501999)

“PathTech LIFE:  Constructing a National Survey of Engineering Technology Students through Regional and Statewide Testing”

* Principal Investigator: Will Tyson
* Co-Principal Investigators: Edward C. Fletcher, Jr. and Danielly Orozco
* $778,031 (September 2015 – August 2018)
* $155,586 (May 2018 – February 2019)

PathTech LIFE will contribute to the national policy discussion on the role of community colleges and the importance of advanced technological fields in maintaining the global competitiveness of the nation's STEM workforce. Through the development of a national survey and associated research, the project is designed to identify the characteristics of students in the advanced technological field of engineering technology (ET), their academic pathways, career goals, and school-work-life balance issues that impact their decisions to enroll in and complete ET courses, return for further ET coursework, and/or pursue a certificate or degree. Furthermore, the project will determine the generalizability of the qualitatively-based models developed during an earlier, first phase of the research, which has been supported by an ATE targeted research award.   
  
The partially mixed-methods sequential equal-status research design and instrument development are based on the PRiSM (Pathway to better life; Reflective learner; Synchronizing learning, earning, and living; Match with an academic life) Decision Model for Adult Enrollment; Schlossberg's Transition Theory from counseling; and the explanatory models developed during the first phase of the research. The project will employ ordinal least squares regression and multilevel regression techniques along with hierarchical linear modeling to examine and model the relationships among demographics and background factors and the outcomes under investigation. The project will test and revise the survey instrument based on results from factor analyses, tests of reliability and validity, and expert peer review.

National Science Foundation (DUE #1104214)

“Successful Academic and Employment Pathways in Advanced Technologies”

* Principal Investigator: Will Tyson
* Co-Principal Investigators: Lakshmi Jayaram, Marie Boyette, Kathryn Borman (retired)
* $1,196,790 (September 2011 – August 2015)

In light of the growing need for highly trained workers in engineering technology, a collaboration of higher education institutions in Florida is examining the progression of students from high schools into advanced technology programs at community colleges and into the workforce. Researchers from the Departments of Sociology and Anthropology at the University of South Florida are teaming up with the Florida Advanced Technological Center (FLATE) at Hillsborough Community College, Polk State College, and the State College of Florida to examine student pathways from high school through community college to industry. The mixed method study integrates secondary data analysis of student-level longitudinal data from the Florida Department of Education PK-20 Education Data Warehouse and state employment data with ethnographic case studies. The quasi-experimental research study with case studies is designed to answer three overarching questions. Who enrolls in engineering technology programs at community colleges out of high school? How do students become engineering technology graduates? How do engineering technology students benefit from enrollment and associate degree attainment? The study contributes to a growing body of knowledge on advanced technician education and to the overall mission of the Advanced Technological Education Program by (1) increasing understanding of recruitment and pathways into engineering technology programs; (2) providing information to improve the education of engineering technicians; (3) discovering promising practices that increase the visibility of engineering technology programs at community colleges; and (4) providing information about practices that produce qualified science and engineering technicians to meet workforce demands.

**Co-Principal Investigator:**

National Science Foundation (DRL #0815250)

“On-Track for STEM Careers: Access to Rigorous and Relevant STEM Courses in Florida’s High Schools”

* Principal Investigator: Kathryn Borman
* Co-Principal Investigators: Will Tyson, Becky Smerdon
* $996,966 (October 2008 – September 2011)

This study will examine and clarify for policymakers and researchers the impact of statewide policy changes that increased the availability of advanced STEM courses for a greater number of schools and students. The proposer will analyze the extent to which the policy changes affect outcomes for all students, particularly students who are underrepresented in STEM areas. This study, then, will provide critical information about the effectiveness of policy changes for stakeholders who have a vested interest in understanding the effects of advanced curricular programs on student enrollment in STEM courses during high school and early college.   
  
The project will address two key research questions:   
  
1. Who enrolls in accelerated academic programs? What are the factors (the student and school) that influence enrollment in different accelerated and non-accelerated curricular programs?   
  
2. Do accelerated academic programs increase students? STEM coursetaking in high school and during their first year of postsecondary school (Grade 13)? Do some programs increase STEM coursetaking more than others? Do these programs reduce gaps in STEM coursetaking among historically underrepresented students and their peers?  
  
The proposer will use a mixed method approach to address the research questions that includes a quantitative analysis of extant longitudinal data in the state of Florida and a qualitative assessment of non-statistical factors through site visits to schools. Ten years of quantitative data from the Florida Department of Education (FLDOE) will serve as the main source of information the proposer will use to study the characteristics of both students and schools. The FLDOE dataset includes a rich array of high school and postsecondary data (e.g. transcripts; dual enrollment and achievement data in these courses; regular 1-12 grades school test scores; demographic data; poverty index information). Two sets of school site visits will be conducted in the state’s major urban centers as well as small suburban high schools to provide insights not captured through quantitative analysis. During the initial visits, data will be collected via course catalogs and interviews with school personnel. For follow-up visits, data will be collected through student focus groups about all aspects of course offerings and course taking.

**Senior Personnel:**

National Science Foundation. “Partnerships for Adaptation, Implementation, and Dissemination (PAID): Collaborative Research - Alliance for the Advancement of Florida’s Academic Women in Chemistry and Engineering (AAFAWCE)” (NSF #0930164)

* Principal Investigator: Penny Gilmer
* $221,644 (October 2009 – August 2013)

NSF Innovative Technology Experiences for Students and Teachers (ITEST). “Expanding Opportunities for Innovative and Technology-Rich STEM Experiences through Florida’s High School Career Academies” (NSF DRL #0833503)

* Principal Investigator: Kathryn Borman
* Co-Principal Investigator: Becky Smerdon
* $1,449,911 (October 2008 – September 2011)

NSF STEM Talent Enhancement Program (NSF STEP II). “Effects of College Degree Program Culture on Female and Minority Student Science, Technology, Engineering, and Mathematics (STEM)” (NSF STEP II #0525408)

* Principal Investigator: Kathryn Borman
* Co-Principal Investigator: Mary Ann Hanson
* $1,328,311 (September 2005 – August 2008)

**Post-doctoral Scholar:**

NSF Research on Learning and Education (ROLE). “Understanding Factors that Sustain STEM Career Pathways” (NSF #0337543)

* Principal Investigator: Kathryn Borman
* Co-Principal Investigator: Mary Ann Hanson
* $942,545 (May 2004 – August 2008)

**Small Grants:**

American Educational Research Association (AERA) Grants Program. AERA Institute on

Statistical Analysis for Education Policy: Transitions from High School to College. May 2011.

University of South Florida Summer Grant Proposal Writing Workshop. May 2006 – July 2006.

**Selected Invited Presentations**

Tyson, Will. 2015. “Successful Academic & Employment Pathways in Advanced Technologies.” Keynote speaker at 5th Annual STEM Professional Association meetings, March 19. Middleton High School, Tampa, FL.

Wingate, Lori, Kirk Knestis, and Will Tyson. 2014. “Evaluation & Research in the ATE Program” [Webinar]. December 10, 2014. Retrieved from: <http://youtu.be/QoIZMreQ60I>

Tyson, Will. 2011. Authors Meets Critics: *Academically Adrift: Limited Learning on College Campuses* by Richard Arum and Josipa Roksa. Invited panel at the Annual Meeting of the Southern Sociological Society, April 6-9. Jacksonville, FL.

Tyson, Will. 2009. “Long-Term Trajectories in STEM – Results from Longitudinal Studies.” Invited Panelist at Meetings of the National Academies National Research Council Board On Science Education, December 7-8. Irvine, CA.

Hood, Thomas, Catherine Harris, Linda Treiber, Will Tyson. 2007. “Why Am I a Sociologist?” Invited panel at the Annual Meeting of the Southern Sociological Society, April 11-14, Atlanta, GA.

**Selected Conference Presentations**

**International:**

Borman, Kathryn, Mary Ann Hanson, Will Tyson, Heather Meikle. 2006. “Effects of College Degree Program Culture on Female and Minority Student Science, Technology, Engineering and Mathematics (STEM) Participation.” Paper presented at the annual meeting of the Latin American and Caribbean Conference for Engineering and Technology (LACCEI), June 21-23, Mayaguez, PR.

Tyson, Will, Reginald Lee, Anna Tolentino, Mary Ann Hanson, Jeffrey Kromery, Theodore Micceri, and Kathryn M. Borman. 2005. “A Multiphasic Approach to Discovering How Scientists Develop Career-Related Interests and Careers.” Paper presented at the meeting of the World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI), July 11-14, Orlando, FL.

**National:**

Tyson, Will. 2019. “Industry Perspectives on Improving High School Educational Pathways into the Manufacturing and High-Tech Workforce.” Paper presented at the Annual Meetings of the American Sociological Association, August 9-12, New York, NY.

Tyson, Will and Kristopher Oliveira. 2019. “Community College Technician Education Student Knowledge and Use of Student Resource Centers.” Paper presented at the Annual Meeting of the Society for Applied Anthropology, March 19-23, Portland, OR.

Tyson, Will and Lakshmi Jayaram. 2019. “PathTech LIFE and LISTEN: Annual Report of Research on Technician Education Students.” Paper presented at the High Impact Technology Exchange Conference, July 23-26, Miami, FL.

Tyson, Will, Lakshmi Jayaram, and Katherine Haggar. 2018. ““You Have to Major or Minor in Like Chinese to Take Classes Here”: Student Racialization of Complaints about International Faculty and Teaching Assistants.” Paper presented at the Annual Meetings of the American Sociological Association, August 11-14, Philadelphia, PA.

Tyson, Will and Lakshmi Jayaram. 2018. “PathTech LIFE: Findings from a National Survey of Advanced Technology Students.” Paper presented at the High Impact Technology Exchange Conference, July 23-26, Miami, FL.

Fletcher, Edward C. and Will Tyson. 2018. “An Exploratory Analysis of Characteristics and Participation Factors for Two-Year College Students in Advanced Technology.” Paper presented at the Annual Meeting of the American Educational Research Association, April 13-17, New York, NY.

Tyson, Will. 2017. “Non-cognitive Skill Development in Career and Technical Education: Student, Teacher, and Employer Perspectives.” Paper presented at the Annual Meetings of the American Sociological Association, August 12-15, Montreal, QC.

Tyson, Will. 2017. “PathTech LIFE: Preliminary Findings for a National Survey of Advanced Technology Students.” Paper presented at the High Impact Technology Exchange Conference, July 17-20, Salt Lake City, UT.

Tyson, Will and Edward C. Fletcher. 2017. “Examining Enrollment Decisions and Life Challenges of Adult Learners in Engineering Technology.”Paper presented at the Annual Meeting of the American Educational Research Association, April 27-May 1, San Antonio, TX.

Tyson, Will. 2017. “Teaching and Learning Industry-Desired Teamwork and Social Skills through High School Career Academies.” Paper presented at the Annual Meeting of the Society for Applied Anthropology, March 28-April 1, Santa Fe, NM.

Tyson, Will. 2016. “Survey Development Challenges: Examining Student Retention in STEM Programs.” Paper presented at the 7th Annual STEMtech Conference, November 6-9, Philadelphia, PA.

Tyson, Will, Edward C. Fletcher, and Pangri Mehta. 2016. “Skills Developed and Skills Desired: Bridging Technical Skill Gaps Between Career Academy Students and Local Employers.” Paper presented at the Annual Meeting of the American Educational Research Association, April 8-12, Washington, DC.

Tyson, Will. 2016. “Fulfillment and Gratification: Intangible Outcomes of Hands-On Community College Technician Education.” Paper presented at the Annual Meeting of the Society for Applied Anthropology, March 29-April 3, Vancouver, BC.

Tyson, Will and Edward C. Fletcher. 2015. “A Longitudinal Analysis of Young Adult Pathways to STEMH Occupations.” Paper presented at the Annual Meeting of the American Educational Research Association, April 16-20, Chicago, IL.

Tyson, Will and Josipa Roksa. 2015. “The Role of Curriculum and Placement in Structuring Math Attainment.” Paper presented at the Annual Meetings of the American Sociological Association, August 22-25, Chicago, IL.

Tyson, Will and Lakshmi Jayaram. 2014. “Work to School Transitions and the Transformative Role of Community College Education.” Paper presented at the Annual Meetings of the American Sociological Association, August 16-19, San Francisco, CA.

Tyson, Will and Lakshmi Jayaram. 2014. “The "Pipeline" Metaphor: An Iconic Symbol for STEM Workforce Development or Mythical Understanding of Pathways into High-Tech Fields?” Paper presented at the Annual Meeting of the Society for Applied Anthropology, March 18-22, Albuquerque, NM.

Tyson, Will. 2013. “Linking Micro and Macro: Student Achievement and Peer Effects on Gender Disparities in Mathematics Coursetaking.” Paper presented at the Annual Meetings of the American Sociological Association, August 10-13, New York, NY.

Tyson, Will and Ashley Spalding. 2010. “Impact of “Weed Out” Course Achievement and Precollege Preparation on STEM Degree Attainment among Women and Underrepresented Minorities.” Paper presented at the Annual Meetings of the American Sociological Association, August 14-17, Atlanta, GA.

Borman, Kathryn M., Reginald Lee, Ashley Spalding, Will Tyson, and Becky Smerdon. 2010. “On-Track for STEM Careers: Access to Rigorous and Relevant STEM Coursework in Florida's High Schools.” Paper presented at the Annual Meeting of the American Educational Research Association, April 30-May 4, Denver, CO.

Tyson, Will and Kathryn Borman. 2009. “’We’ve All Learned a Lot of Ways Not to Solve the Problem’: Descriptions of Positive Department Atmosphere and Recruitment and Retention of Female Students and Faculty by Tenured Female Science and Engineering Faculty.” Paper presented at the Annual Meetings of the American Sociological Association, August 7-11. San Francisco, CA.

**Regional:**

Tyson, Will and Lakshmi Jayaram. 2019. “Knowledge and Utilization of Campus Resources and Program Satisfaction Among Community College Technician Education.” Paper presented at the Annual Meetings of the Southern Sociological Society, April 10-13. Atlanta, GA.

Tyson, Will and Lakshmi Jayaram. 2018. “PathTech LIFE: Experiences of Under-Represented Groups in Technician Education.” Paper presented at the Annual Meetings of the Florida Educational Research Association, November 14-16, St. Petersburg, FL.

Tyson, Will and Lakshmi Jayaram. 2018. “Personal and Professional Motivations of Enrollment in Community College Advanced Technology Program.” Paper presented at the Annual Meetings of the Southern Sociological Society, April 4-7, New Orleans, LA.

Tyson, Will. 2016. “PathTech LIFE: Constructing a National Survey of Diverse Community College STEM Students.” Paper presented at the Annual Meetings of the Southern Sociological Society, April 13-16, Atlanta, GA.

Tyson, Will. 2015. “Rebuilding Things, Rebuilding Self: Transforming the American Technology Workforce.” Paper presented at the Annual Meetings of the Southern Sociological Society, March 26-29, 2015, New Orleans, LA.

Tyson, Will. 2014. “Black and Hispanic Pathways in Florida STEM Education: Reports from 10 Years of Longitudinal Research in Secondary and Higher Education.” Paper presented at the Annual Meetings of the Southern Sociological Society, April 2-5, 2014, Charlotte, NC.

Tyson, Will, Lakshmi Jayaram, David Zeller, and Pangri Metha. 2013. “PathTech: Building Partnerships with Community Colleges to Study Pathways to Advanced Technology Degrees.” Paper presented at the Annual Meetings of the Southern Sociological Society, April 26, Atlanta, GA.

Tyson, Will and Rheta Lanehart. 2010. “Student- and School-Level Demographic and Achievement Determinants of Ninth Grade Algebra I Placement.” Paper presented at the Annual Meetings of the Florida Education Research Association, November 1-4, Orlando, FL.

Tyson, Will. 2006. “Secondary and Post-Secondary Educational Pathways of High Achieving Black and Hispanic Students in Florida Public High Schools.” Paper presented at the annual meeting of the Southern Sociological Society, March 22-25, New Orleans, LA.

**NSF Advanced Technological Education Principal Investigators Conference**

Tyson, Will, Lakshmi Jayaram, and Danielly Orozco. 2018. “Applied Research 101 – PathTech LIFE and LISTEN Research in Action.” High Impact Workshop conducted at the Advanced Technological Education Principal Investigators Conference, October 24-26, Washington, DC.

Tyson, Will and Edward C. Fletcher. 2017. “PathTech LIFE: Informing Targeted Research and Best Practices.” Presentation at the Advanced Technological Education Principal Investigators Conference, October 23-25, Washington, DC.

Tyson, Will, Connie Della-Piana, Louise Yarnall. 2014. “Developing Partnerships between ATE Grantees and Education Researchers to Conduct Targeted Research on Student Outcomes. Pre-Conference Workshopat the Advanced Technological Education Principal Investigators Conference, October 22-24, Washington, DC.

Tyson, Will and Edward C. Fletcher. 2013. “ATE Targeted Research in Action: FLATE/PathTech and Fox Valley/METTE Partnerships to Improve Student Outcomes.” Presentation at the Advanced Technological Education Principal Investigators Conference, October 23-25, Washington, DC.

**Florida Forum on Engineering Technology**

Tyson, Will and Lakshmi Jayaram. 2019. “PathTech LIFE Update.”  Invited speaker at Florida Forum on Engineering Technology.  October 17. Seminole State College – Lee Campus, Oviedo, FL.

Tyson, Will and Lakshmi Jayaram. 2018. “PathTech LIFE Update.”  Invited speaker at Florida Forum on Engineering Technology.  November 1. St. Petersburg College – Clearwater, Clearwater, FL.

Tyson, Will and Lakshmi Jayaram. 2018. “PathTech LIFE Update.”  Invited speaker at Florida Forum on Engineering Technology.  April 12. South Florida State College, Avon Park, FL.

Tyson, Will and Lakshmi Jayaram. 2017. “PathTech LIFE Update.”  Invited speaker at Florida Forum on Engineering Technology.  September 21. College of Central Florida, Ocala, FL.

Tyson, Will and Edward C. Fletcher. 2016. “PathTech LIFE Update.”  Invited speaker at Florida Forum on Engineering Technology.  September 22. Daytona State College – Advanced Technology College, Daytona Beach, FL.

Tyson, Will. 2015. “PathTech Project Update.”  Invited speaker at the Florida Forum on Engineering Technology.  September 24. Valencia College – West Campus, Orlando, FL.

Tyson, Will. 2013. “Grant Update.” Invited speaker at the Florida Forum on Engineering Technology. October 3. Hillsborough Community College – Brandon Campus, Tampa, FL.

Tyson, Will. 2013. Authors Meets Critics: *Learning the Hard Way: Masculinity, Place, and the Gender Gap in Education* by Edward W. Morris. Invited panel at the Annual Meeting of the Southern Sociological Society, April 24-27. Atlanta, GA.

Tyson, Will, Lakshmi Jayaram, and Margaret Cooper. 2013. “PathTech Update.” Invited speaker at the Florida Forum on Engineering Technology. April 4. St. Petersburg College – Clearwater Campus, Clearwater, FL.

**Media**

“Research Methodologies & Findings Examining Educational and Professional Trajectories of Engineering Technology Students.” Florida Advanced Technological Education Center: A National Science Foundation Center of Excellence. FLATE Focus. August 2013.

<http://flate-mif.blogspot.com/2013/08/research-methodologies-findings_4450.html>

“PathTech Team at USF Analyzes Educational and Professional Trajectories of Engineering Technology Students.” Florida Advanced Technological Education Center: A National Science Foundation Center of Excellence. FLATE Focus. July 2013.

<http://flate-mif.blogspot.com/2013/07/pathtech-team-at-usf-analyzes_4242.html>

“STEM Research Part I.” University Beat. WUSF (Tampa, FL). January 24, 2012

<http://www.wusf.usf.edu/radio/program/university_beat/episode/2012-01/electric_cars_stem_research_part_1>

“Tarboro native leading STEM research at USF.” The Daily Southerner (Tarboro, NC). January 12, 2012.

<http://dailysoutherner.com/local/x2145130990/Tarboro-native-leading-STEM-research-at-USF>

# “USF researcher gets $1.2 million for STEM study.” St. Petersburg Times (St. Petersburg, FL). December 29, 2011.

<http://www.tampabay.com/news/education/college/usf-researcher-gets-12-million-for-stem-study/1206637>

“Studying Pathways to Tech Jobs.” USF News. December 14, 2011.

<http://news.usf.edu/article/templates/?z=38&a=4001>

# Teaching

**Courses Taught**

*Graduate*

Race and Ethnicity

Sociology of Higher Education

Issues in Higher Education Practicum: Mixed Methods Research and Grantsmanship

*Undergraduate*

Sociology of Higher Education

Sociology of Education

Racial and Ethnic Relations

Sport in Society

Introduction to Sociology

**Synergistic Teaching Activities**

Guest Lecturer, “Presentation of Culture and Ethnicity in the U.S. with Comparison to Cultural Processes in the Dominican Republic and Haiti” in Towards Democracy and Diversity: Increasing the Content Knowledge and Pedagogical Skills of Caribbean Social Studies Educators (LAS 6913), Summer 2009

Presider, “Challenges of Teaching Race and Ethnicity.” Workshop conducted at the annual meeting of the Southern Sociological Society, sponsored by Committee on Ethnic and Racial Minorities. Atlanta, GA. April 11-14, 2007

Co-Coordinator, “Key Developments in the Sociology of Education.” Workshop conducted at the annual meeting of the American Sociological Association, sponsored by the Sociology of Education section. Montreal, QC. August 11-14, 2006.

**Professional Service**

**Committee Service**

*Sociology of Education* Editorial Board (2011-2013, 2016-2018)

National Academy of Engineering (NAE) Committee on the Status, Role, and Needs of Engineering Technology Education in the United States (2014-2017)

National Advisory Committee for the Longitudinal Study of American Youth, Institute of Social Research, University of Michigan) (2011-2014)

**American Sociological Association**

Member, Sociology of Education Nominations Committee (2014)

Member, Distinguished Early Career Award from the Section on Racial and Ethnic Minorities Selection Committee

**Southern Sociological Society**

Member, Executive Committee (2019-2021)

Member, Nominations Committee (2014-2016)

Member, Program Committee (2014)

Member, Committee on Ethnic and Racial Minorities (2006-2008)

**American Educational Research Association**

Member, Sociology of Education SIG Maureen T. Hallinan Graduate Student Paper Award Committee (2016)

**National Science Foundation Annual Principal Investigator Meetings**

Advanced Technological Education (ATE), 2011-present

Research and Evaluation on Education in Science and Engineering (REESE, formerly ROLE), 2005-11

STEM Talent Enhancement Program (STEP), 2008-10

**Other Committees**

STEPWork 2016: Positively Impacting the Sustainability Efforts of STEP Grants, University of Central Florida, September 2016.

Pinellas STEM Collaborative Labs at St. Petersburg College. St. Petersburg College, Pinellas County Schools, WorkNet Pinellas and the Science Center of Pinellas, May 2012.

Pathways Think Tank. The Science Learning Activation Lab (Lawrence Hall of Science at the University of California-Berkeley, the Learning Research Development Center at the University of Pittsburgh, and SRI International), May 2011.

American Sociological Association Spivack Workshop on School Composition and School Outcomes, May 2006.

**Grant Advisory Board**

Promoting the Development of STEM Tech Employability Skills: A Review of Practices and Needs in the ATE Community, PI: Louise Yarnall, SRI International (2017-present)

Community College Roots of STEM Advisory Board, PI: Elizabeth Stearns, UNC-Charlotte (2014-present)

**National Science Foundation Grant Review Panels**

2007, 2009, 2012, 2013 (chair), 2018

**Journal Reviewer**

# Journal Manuscript Reviewer, *AERA Open,* *American Education Research Journal, American Journal of Education, American Journal of Sociology,* *Contemporary Sociology, Educational Evaluation and Policy Analysis, Gender & Society, International Journal of STEM Education, The International Journal of Educational Policy, Research, and Practice, Research in Social Stratification and Mobility, Personal Relationships, Race and Ethnicity, Science Education, Sociology of Education,* *Teachers College Record,* and *Teaching Sociology*

# University Service

**College and University**

College of Arts and Sciences Faculty Development Committee (2017-19)

College of Education Dean Search Committee (2012-13)

College of Arts and Sciences Diversity Committee (2008-10), Chair (2009-10)

President's Alcohol Task Force, Faculty Representative (2008-09)

# Department

Sociology Executive Committee (2017-present), Chair (2018-20)

Sociology Assistant Professor Search Committee (2016-2017)

Sociology Graduate Committee (2012-17)

Sociology Colloquium Committee (2009–12, 2013-14)

Sociology Permanent Instructor Search Committee (2012-13)

Sociology Undergraduate Committee (2006-11)

Sociology Permanent Instructor Search Committee (2007-08)

**Community**

Pride Elementary School Advisory Council (SAC) (2016-2018)

Middleton High School Pre-Collegiate STEM Academy STEM Advisory Board (2012-present)

# Advising

**Doctoral Dissertation**

Committee member, Ifeanyichukwu Onu, Exceptional Student Education (Chair: Brenda Townsend Walker)

Committee member, Aisha Holmes, Exceptional Student Education, 2018 (Chair: Brenda Townsend Walker)

Committee member, Jimmy Caldwell, Exceptional Student Education, 2017 (Chair: Brenda Townsend Walker)

Committee member, Heather Ureksoy, Industrial/Organizational Psychology, 2011 (Chair: Wally Borman)

Committee member, Keona Lewis, Anthropology, 2010 (Chair: Susan Greenbaum)

**Master’s Thesis Chair**

Matthew Ahlfs, Sociology, 2018

Antoine Jackson, Sociology, 2013

Janine Beahm, Sociology, 2012

**Master’s Thesis Committee Member**

Monica Heimos, 2016

Jen Dean, Sociology, 2014

Gregory Mills, Sociology, 2012

Ginger Jacobson, Sociology, 2009

Christina Brown-Wujick, Sociology, 2009

**University Honors Thesis Director**

Angelee Wilson, 2017

Jeremy Lomax, 2016

Fernando Ortiz, 2008

Mary Hsu, 2006

**Professional Memberships**

American Sociological Association

Southern Sociological Society

American Educational Research Association

Association for Study of Higher Education

Society for Applied Anthropology