

**WILL TYSON**  
Curriculum Vitae  
August 2023

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Department of Sociology and Interdisciplinary Social Sciences  
University of South Florida  
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**ACADEMIC POSITIONS**

Associate Professor, Department of Sociology and Interdisciplinary Social Sciences, 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**

**Books**

Tyson, Will. 2020. *Teaching and Learning Employability Skills in Career and Technical Education: Industry, Educator, and Student Perspectives.* New York: Palgrave Macmillan.  
<https://www.palgrave.com/us/book/9783030587437>

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.

### **Refereed Journal Articles**

Fletcher, Edward C. and Will Tyson. 2020. "Examining Enrolment Decisions and Life Challenges of Adult Learners in Advanced Technologies Programs." *Journal of Vocational Education & Training*. DOI: [10.1080/13636820.2020.1715466](https://doi.org/10.1080/13636820.2020.1715466)

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.

### **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. 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**

Tyson, Will. 2020. "The State of Education and Movement for Black Lives: The Search for Leaders." *ASA Sociology of Education Newsletter* 23(3):10. July 2020.  
[https://www.asanet.org/sites/default/files/asa\\_so\\_e\\_summer\\_2020\\_newsletter.pdf](https://www.asanet.org/sites/default/files/asa_so_e_summer_2020_newsletter.pdf)

Tyson, Will, Lakshmi Jayaram, and Marilyn Barger. 2019. "PathTech LIFE: Overview of Findings from National Survey of Technician Education Students." Conference Proceedings. American Society for Engineering Education, Tampa, FL

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, 2018.  
<https://contexts.org/blog/unauthorized-immigration-local-economies/>

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

**Technical Reports** (found at <http://pathtechusf.com/>)

Tyson, Will (PI). 2022. PathTech LISTEN: Mixed Methods Longitudinal Investigations of Students in Technician Education Year 4 Annual Report.

Tyson, Will and Teresa Potter. 2021. "Covid-19 Pandemic Impact on LISTEN Participants." PathTech LISTEN Research Brief, 2(2).

Tyson, Will. 2021. "Developing Strategies for Tracking Community College Alumni." PathTech LISTEN Research Brief, 2(1).

Tyson, Will and Lakshmi Jayaram. 2021. "Preliminary Results: Technical Programs Lead to STEM Careers." PathTech LISTEN Research Brief, 1(2).

Tyson, Will (PI). 2021. PathTech LISTEN: Mixed Methods Longitudinal Investigations of Students in Technician Education Year 3 Annual Report.

Tyson, Will (PI). 2020. PathTech LISTEN: Mixed Methods Longitudinal Investigations of Students in Technician Education Year 2 Annual Report.

Tyson, Will (PI). 2019. PathTech LISTEN: Mixed Methods Longitudinal Investigations of Students in Technician Education Year 1 Annual Report.

Tyson, Will (PI). 2019. PathTech LIFE: Constructing a National Survey of Engineering Technology Students through Regional and Statewide Testing Final Annual Report.

Tyson, Will (PI). 2018. PathTech LIFE: Constructing a National Survey of Engineering Technology Students through Regional and Statewide Testing Year 3 Annual Report.

Tyson, Will (PI). 2017. PathTech LIFE: Constructing a National Survey of Engineering Technology Students through Regional and Statewide Testing Year 2 Annual Report.

Tyson, Will (PI). 2016. PathTech LIFE: Constructing a National Survey of Engineering Technology Students through Regional and Statewide Testing Year 1 Annual Report.

Tyson, Will (PI). 2015. Successful Academic and Employment Pathways in Advanced Technologies Final Annual Report.

Tyson, Will (PI). 2014. Successful Academic and Employment Pathways in Advanced Technologies Year 3 Annual Report.

Tyson, Will (PI). 2013. Successful Academic and Employment Pathways in Advanced Technologies Year 2 Annual Report.

Tyson, Will (PI). 2012. Successful Academic and Employment Pathways in Advanced Technologies Year 1 Annual Report.

### **RESEARCH GRANTS AWARDED**

#### **As Principal Investigator:**

National Science Foundation (DUE #1801163)

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

- Principal Investigator: Will Tyson
- Co-Principal Investigators: Lakshmi Jayaram and Marilyn Barger
- \$799,858 (October 2018 – May 2023)
- \$159,928 (Supplemental funding)
- \$157,902 (Supplemental funding)
- Total: \$1,117,688

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 – February 2019)
- \$155,586 (Supplemental funding)
- Total: \$933,617

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)

#### **As Co-Principal Investigator:**

National Science Foundation (DUE #2224623)

“Collaborative Research: Community College S-STEM Network (CCSN) – Developing and Sharing Research on Low-Income Community College Student Decision-Making and Pathways in STEM”

- Principal Investigator: Michelle Van Noy (Rutgers University)

- Co-Principal Investigators: Will Tyson, Renee Edwards (Rutgers), Elizabeth J. Meza (University of Washington)
- \$2,879,267 (January 2023 – December 2027)

National Science Foundation (DUE #2202169)

“Grant Insights through Research & Development (GIRD): Using Big Data Centered Mixed Methods to Explain Variances in Grant Funding and Outcomes at Two-Year Colleges”

- Principal Investigator: Benjamin Reid (Impact Allies)
- Co-Principal Investigators: Christopher Baechle (Indian River State College), Will Tyson, Rassoul Dastmozd (PIVOT4Change)
- \$797,040 (October 2022 – September 2025)

National Science Foundation (DUE #2030861)

“Transfer Undergraduate Rural/Nontraditional Student Pathways through Identity, Knowledge & Engagement (TURNPIKE)”

- Principal Investigator: Sanjukta Bhanja (USF)
- Co-Principal Investigators: Will Tyson, Reginal Webb (Polk State College), Bulmuo Maakuu (Polk State College), Mary E. Goodwin (USF)
- \$3,070,087 (September 2020 – August 2025)

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)

#### **As Senior Personnel:**

NSF Improving Undergraduate STEM Education (IUSE): Hispanic-Serving Institutions (HSI) Program. “STEM Articulation and Transfer Collaborative Project” (DUE #1928343)

- Principal Investigator: Becky Mercer, Palm Beach State College
- Co-Principal Investigators: Gregg Fields, Evonne Rezler, Marina Rines, Cynthia Judd
- \$1,553,556 (October 2019 – September 2024)
- Role: Social Researcher

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, #0930172, #0930187, #0930220, #0930237)

- Principal Investigators: Karen Holbrook, University of South Florida; Penny Gilmer, Florida State University; Simone Hrudu, Florida Agricultural and Mechanical University; Berrin Tansel, Florida International University; Angel Kwolek-Folland, University of Florida
- Co-Principal Investigators (USF): Kathryn Borman, Sylvia Thomas

- \$650,363 (September 2009 – August 2013)
- Role: Quantitative Researcher

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, University of South Florida
- Co-Principal Investigator: Becky Smerdon
- \$1,449,911 (October 2008 – September 2011)
- Role: Quantitative Researcher

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, University of South Florida
- Co-Principal Investigator: Mary Ann Hanson
- \$1,328,311 (September 2005 – August 2008)
- Role: Quantitative Researcher

#### **Post-doctoral Scholar:**

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

- Principal Investigator: Kathryn Borman, University of South Florida
- Co-Principal Investigator: Mary Ann Hanson
- \$942,545 (May 2004 – August 2008)
- Role: Quantitative Researcher

#### **USF Internal Grants:**

Understanding and Addressing Blackness and Anti-Black Racism in Local, National, and International Communities Research. “Increasing Job Opportunities for Young Black Fathers to Improve Child and Community Health” (#100061)

- Principal Investigator: Ronee Wilson
- Co-Principal Investigator: Will Tyson
- \$14,996 (September 2, 2020 – September 1, 2021)

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

#### **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.

#### **Grant Advisory Roles**

National Science Foundation (DUE #1931215)

“Engaging Educators, Strengthening Practice: Creating & Sustaining Successful Industry-Education Partnerships” (2019-23)

PI: Mary Slowinski, Bellevue College  
Role: Advisory Board Member

National Science Foundation (DUE #2000583)  
“Backtracking CTE Pathways: Identifying and Investigating Pathways and Critical Junctures in Two-Year Information Technology Programs” (2020-23)  
PI: Marcia Mardis, Florida State University  
Role: External Evaluator

National Science Foundation (DUE #1928343)  
“Gendered Pathways: From Florida's Two-Year Institutions to Computing Degrees” (2019-22)  
PI: Lara Perez-Felkner, Florida State University  
Role: Advisory Board Member

National Science Foundation (DUE #1700703)  
“Promoting the Development of STEM Tech Employability Skills: A Review of Practices and Needs in the ATE Community” (2017-20)  
PI: Louise Yarnall, SRI International  
Role: External Evaluator

National Science Foundation (DRL #1420363)  
“Community College Roots of STEM: Interactive Influences of Individual, Secondary School, and College Factors Predicting the Success of Underrepresented Groups” (2014-20)  
PI: Elizabeth Stearns, UNC-Charlotte  
Role: Advisory Board Member

National Science Foundation (EES #1432297)  
“The Effects of Social Capital and Cultural Models on the Retention and Degree Attainment of Women and Minority Engineering Undergraduates” (2014-16)  
PI: Gladis Kersaint, USF College of Education  
Role: Advisory Board Member

National Science Foundation (DRL #0969286)  
“Finding the Roots: Interactive Influence of Individual, High School, and College Institutional Factors on the Success of Women and Underrepresented Minorities in STEM Majors” (2010-15)  
PI: Elizabeth Stearns, UNC-Charlotte  
Role: Advisory Board Member

#### **INVITED PANELS AND PRESENTATIONS**

##### **National:**

Pirozzi Quartey, Maricla, Jayshree Seth, Will Tyson. 2022. “Future Needs for the Workforce and the Implications for Educating Undergraduates.” Invited panel at the National Academies of Sciences, Engineering, and Medicine (NASEM) Division of Behavioral and Social Sciences and Education Board on Science Education (BOSE) Roundtable on Systemic Change in Undergraduate STEM Education, May 23. Washington, DC and Virtual.



Tyson, Will and Yves Salomon-Fernández. 2021. “Keynote Panel: Pathways into Higher Education.” Invited panelists at the Transforming Institutions Conference 2021. Accelerating Systemic Change Network (ASCN) and Network of STEM Education Centers (NSEC). June 10. Virtual Meetings.  
[https://ascnhighered.org/ASCN/transforming\\_institutions/2021/program/pathways\\_panel/index.html](https://ascnhighered.org/ASCN/transforming_institutions/2021/program/pathways_panel/index.html)

Tyson, Will. 2021. “Breaking Down Silos: Applying Sociology of Education Research to Facilitate Large-Scale Interdisciplinary Research Partnerships.” Invited speaker at the Department of Educational Policy and Leadership Studies at the University of Iowa. March 1. Virtual Meeting.

Nunez, Ann Marie, Will Tyson, and Erin Cech. 2020. “STEM Education for Whom?” Invited panelists at the Symposium on Imagining the Future of Undergraduate Education. National Academies of Sciences, Engineering, and Medicine (NASEM) Division of Behavioral and Social Sciences and Education Board on Science Education (BOSE) and Board on Higher Education and Workforce. November 12. Virtual Meetings.  
<https://stemfutureshighered.secure-platform.com/a/gallery/rounds/4/schedule/items/34>

Tyson, Will. 2019. “PathTech: Conducting National Research on Community College Technician Education Pathways.” Invited speaker at the STEM Institute and School of Education at Florida International University. March 26. Miami, 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. 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.

**Regional:**

Atkins, Laura and Christina Steidl. 2022. *Author Meets Curious Readers: Teaching and Learning Employability Skills in Career and Technical Education: Industry, Educator, and Student Perspectives* by Will Tyson (Palgrave Macmillan). Invited panel at the Annual Meeting of the Southern Sociological Society, April 6-9. Birmingham, AL.

Tyson, Will. 2019. Keynote speaker at Alpha Kappa Delta Chapter Honor Society Induction for University of Central Florida Sociology, April 18. University of Central Florida, Orlando, FL.

Crowley, Martha, Freedom Oeur, and Will Tyson. 2013. *Author 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.

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.

**Local:**

Tyson, Will. 2023. "Teaching and Learning Employability Skills in Career and Technical Education: Industry, Educator, and Student Perspectives." Invited speaker at the Alpha Kappa Delta Theta Chapter Spring 2023 Research Talk. April 7. University of Tampa, Tampa, FL.

Aikins, Stephen, Denise Davis-Cotton, Michelle Madden, Will Tyson, and Brenda Walker. 2021. "An "Affinity Moment": Black Researchers Committed to Racial Equity." USF Institute on Black Life Annual Conference. February 3. University of South Florida, Tampa, FL.

Wilson, Ronee and Will Tyson. 2021. "Increasing Job Opportunities for Young Black Fathers to Improve Child and Community Health." USF Institute on Black Life Annual Conference. February 3. University of South Florida, Tampa, FL.

Tyson, Will. 2016. "USF PathTech." Spring 2016 Meeting of the Florida Advanced Technological Education Center Industry Advisory Committee. September 11. Sun Hydraulics, Sarasota, FL.

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.

Tyson, Will. 2014. "USF PathTech." Fall 2014 Meeting of the Florida Advanced Technological Education Center Industry Advisory Committee. September 11. Brewster Technical College, Tampa, FL.

Tyson, Will. 2013. "PathTech: Building Partnerships with Community Colleges to Study Pathways to Advanced Technology Degrees." USF STEM Education Research Colloquium Brown Bag. March 30. University of South Florida, Tampa, FL.

**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 and Lakshmi Jayaram. 2023. "PathTech LISTEN: Mixed Methods Longitudinal Investigations of Students in Technician Education." Paper presented at the High Impact Technology Exchange Conference, July 24-27, Atlanta, GA.

Tyson, Will and Kristopher Oliveira. 2022. "Work-Based Learning: Student Knowledge, Utilization, and Experience in Advanced Technology Internships and Employer Perspectives." Paper presented at the Annual Meeting of the American Educational Research Association, April 21-26, San Diego, CA and virtual.

Jayaram, Lakshmi and Will Tyson. 2020. "An Examination of Traditional- and Nontraditional-Aged Community College Student Experiences: Emerging Findings from PathTech LIFE." Paper presented at the Annual Meetings of the American Sociological Association, August 8-11, Virtual.

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 Hagggar. 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 7<sup>th</sup> 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 STEM 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 Meeting 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 Meeting 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 Meeting 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 Meeting 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. 2020. "Motivations For and Influences on Women's Enrollment in Technician Education Programs at Two-Year Colleges." Paper presented at the Annual Meetings of the Southern Sociological Society, April 1-4. Jacksonville, FL (Cancelled due to COVID).

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**

Barger, Marilyn, Marcia Mardis, Will Tyson, and Faye Jones. 2020. "Generating Resilient Workforce Knowledge through Research Translation." Spotlight Session at the Advanced Technological Education Principal Investigators Conference, October 19-23. Virtual.

Tyson, Will and Lakshmi Jayaram. 2019. "Life after School: Career Pathways for Technician Students." Discussion Session conducted at the Advanced Technological Education Principal Investigators Conference, October 23-25, Washington, DC.

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 Workshop at the Advanced Technological Education Principal Investigators Conference, October 22-24, Washington, DC.

Tyson, Will, Lakshmi Jayaram, Edward C. Fletcher, Patricia Frohrib, and L. Allen Phelps. 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. 2022. "PathTech LISTEN Update." Invited speaker at Spring 2022 Florida Forum on Engineering Technology. March 31. Broward College – North Campus, Fort Lauderdale, FL.

Tyson, Will and Lakshmi Jayaram. 2021. "PathTech LISTEN Update." Invited speaker at Spring 2021 Florida Forum on Engineering Technology. March 19. Virtual Presentation.

Tyson, Will and Lakshmi Jayaram. 2020. "PathTech LISTEN Update." Invited speaker at Fall 2020 Florida Forum on Engineering Technology. October 16. Virtual Presentation.

Tyson, Will and Lakshmi Jayaram. 2019. "PathTech LIFE Update." Invited speaker at Fall 2019 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 Fall 2018 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 Spring 2018 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 Fall 2017 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 Fall 2016 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 Fall 2015 Florida Forum on Engineering Technology. September 24. Valencia College – West Campus, Orlando, FL.

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

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

**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

#### **FEATURED PODCASTS AND AUDIO INTERVIEWS**

Teaching and Learning Research Community (TLRC) Interview Series. *TLRC Interview: Overcoming COVID's Impact on CTE (Career and Technical Education)*. September 22, 2020. Center for Research and Innovation. (<https://podcasts.apple.com/us/podcast/tlrc-interview-series/id1535333644>)

Dishonorable Mention Podcast. *Can America's tumult lead to a positive tipping point? With USF sociology professor Dr. Will Tyson*. June 4, 2020. (<https://podcasts.apple.com/us/podcast/57-can-americas-tumult-lead-to-positive-tipping-point/id1453342971?i=1000476777882>)

WUSF (Tampa, FL). "STEM Research Part I." University Beat. January 24, 2012  
<https://stateimpact.npr.org/florida/2012/01/25/stem-students-and-programs-focus-of-university-of-south-florida-study/>  
University Beat Radio Segment and Interview Parts 1, 2, and 3:  
<http://pathtechusf.com/index.php/media/>

#### **FEATURED IN NEWSPAPER, WEBSITE, AND BLOG ARTICLES**

"Helping Community College Students Take the Road to a Four-Year Degree." USF Engineering News Room. September 30, 2020.  
<https://www.usf.edu/engineering/news-room/09302020-turnpike-feature.aspx>

"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](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](http://flate-mif.blogspot.com/2013/07/pathtech-team-at-usf-analyzes_4242.html)

"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

Research Methods

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 (2011-2014, 2017-2019)

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

NSF Advanced Technological Education (ATE) Principal Investigators Meeting Steering Committee (2014)

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

### **American Sociological Association**

Member, Distinguished Early Career Award from the Section on Racial and Ethnic Minorities Selection Committee (2018)

Member, Sociology of Education Nominations Committee (2014)

### **Southern Sociological Society**

Member, Executive Committee (2018-2021)

Member, Nominations Committee (2014-2016)

Member, Program Committee (2013-14)

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

### **American Educational Research Association**

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

### **Expert Panels and Ad Hoc Committees**

National Center for Education Statistics' (NCES) National Assessment of Educational Progress (NAEP) High School Transcript Studies Technical Panel, Washington, DC, May 2017

ATE Central 2020 Advisory Board Meeting National Visiting Committee (Special Guest), Virtual, May 2020.

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.

### **National Science Foundation Merit Reviews**

Panels - 2007, 2009, 2012, 2013 (chair), 2018, 2020, 2021 (3), 2022

Ad Hoc – 2014, 2019, 2020 (2)

### **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 AND COMMUNITY SERVICE**

#### **University**

Provost's Faculty Success Initiative: Faculty Access & Empowerment Advisory Panel (2021-23)

- Facilitator, Early and Mid-Career Faculty Workshop, "Develop a Daily Writing Practice" (November 17, 2022)
- Recruitment and Retention Workgroup (2021-22)

- Facilitator, Early and Mid-Career Faculty Workshop, “Develop a Daily Writing Practice” with Heather O’Leary (November 15, 2021)

Research Task Force for Understanding and Addressing Blackness and Anti-Black Racism in Our Local, National, and International Communities (2020-22)

- Research Task Force Planning Group (2020-22)
- Research Task Force External Funding Working Group (2020-22)

College of Education Dean Search Committee (2012-13)

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

### **College of Arts & Sciences**

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

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

### **Department**

Sociology Diversity Committee (2021-present)

Sociology Executive Committee (2017-21), Chair (2018-21)

Sociology Assistant Professor Search Committee (2016-17)

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**

Middleton High School Pre-Collegiate STEM Academy STEM Advisory Board (2012-20)

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

### **ADVISING**

#### **Doctoral Dissertation Committees**

S.E. Jenkins, Sociology (Chair)

Cynthia McCallum, Exceptional Student Education (Chair: Brenda Townsend Walker)

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

Kristopher Oliveira, Sociology, 2022 (Co-Chairs: Maralee Mayberry, Elizabeth Hordge-Freeman)

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

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

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

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

#### **PhD Advising**

Advisor, Srijita Banerjee, Sociology

#### **Master’s Thesis Chair**

Jovana Jovanovic, Sociology, 2024

Max Murray, Sociology, 2020

Matthew Ahlfs, Sociology, 2018

Antoine Jackson, Sociology, 2013  
Janine Beahm, Sociology, 2012

**Master's Thesis Committee Member**

Sophie James, Sociology, 2021  
Monica Heimos, Sociology, 2016  
Jen Dean, Sociology, 2014  
Gregory Mills, Sociology, 2012  
Ginger Jacobson, Sociology, 2009  
Christina Brown-Wujick, Sociology, 2009

**University Honors Thesis Director**

Angalee Wilson, 2017  
Jeremy Lomax, 2016  
Fernando Ortiz, 2008  
Mary Hsu, 2006

**PathTech Research Assistants (20+ hours)**

Michael DiCicco, Curriculum and Instruction  
Marc Herbert, Anthropology  
SE Jenkins, Sociology  
Elise Kuechle, Sociology  
Melinda Maconi, Sociology  
Pangri Mehta, Sociology  
Kristopher Oliveira, Sociology  
David Zeller, Sociology

**Other Research Assistants**

Geeti Anwar, Sociology  
Jeffrey Hilbert, Sociology  
Olivia Johnson, Sociology  
Elise Kuechle, Sociology  
Alphonse Opoku, Sociology  
Melissa Welch, Sociology

**PROFESSIONAL MEMBERSHIPS**

American Sociological Association  
Southern Sociological Society  
The Association of Black Sociologists  
American Educational Research Association  
Association for Study of Higher Education  
Society for Applied Anthropology