

# LEVI JOHNSON

## *Curriculum Vitae*

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### EDUCATION

**Texas Tech University**, 2018 - 2023

*PhD Candidate: Educational Leadership Policy* | Dr. J. Jacob Kirksey, Advisor

**Texas Tech University**, 2009 - 2012

*MS: Mathematics* | Thesis: Enhancement of faculty skills through mentoring

**Texas Tech University**, 2005 - 2009

*BA: Mathematics with minor in Secondary Education*, Summa Cum Laude with Honors

### PROFESSIONAL EXPERIENCE

**Center for Transformative Undergraduate Experiences, Texas Tech University** 2019 - Present

*Director*

**Institute for Studies in Pragmaticism, Texas Tech University** 2008 - Present

*Affiliated Researcher and Web Support*

**College of Education, Texas Tech University** 2015 - 2019

*Research Associate*

**STEM Outreach, Texas Tech University** 2010 - 2015

*Assistant Coordinator of STEM Outreach*

### PEER-REVIEWED PUBLICATIONS

Hite, R., **Johnson, L.**, Spott, J., Johnston, K., & Sobehrad, L. (Accepted, February 2023). Enhancing middle school students' STEM interest and learning through a community-engaged summer enrichment STEM competition. *Developing and sustaining STEM programs across the K-12 education landscape*

Hite, R., Velasco, R. C., **Johnson, L.**, Gottlieb, J., & McNaughtan, J. (Accepted, January 2023). Examining the situative progression of teachers' novice-to-expert development in education policy. *Teaching and Teacher Education: Leadership and Professional Development*

Hite, R., Childers, G., Gottlieb, J., Velasco, R. C. L., **Johnson, L.**, Williams, G. B., Griffith, K., & Dwyer, J. (2021). Shifts in learning assistants' self-determination due to COVID-19 disruptions in calculus II course delivery. *International Journal of STEM Education*, 8, 55. <https://doi.org/10.1186/s40594-021-00312-0>

Hite, R., Velasco, R. C. L., **Johnson, L.**, Williams, G. B., & Griffith, K. (2021). Supporting undergraduate STEM education: Perspectives from faculty mentors and learning assistants in calculus II. *Education Sciences*, 11(3), 143. <https://doi.org/10.3390/educsci11030143>

- Carrell, J.D., Spott, J., & **Johnson, L.** (2021). When traditional research is delayed: Bridging the gap between K-12 and the university through LAZARUS. *Journal of STEM Education*, 22(1), 75-81. <https://jstem.org/jstem/index.php/JSTEM/article/view/2446/2211>
- Hite, R., Spott, J., **Johnson, L.**, & Sobehrad, L. (2020). STEM challenge: two years of community-engaged engineering. *Journal of Research in Innovative Teaching & Learning*, 13(1), 57-82. <https://doi.org/10.1108/JRIT-12-2019-0080>
- Bisanz, E., Cunningham, S., Hendrick, C., **Johnson, L.**, Ketner, K. L., McLaughlin, T., & O'Boyle, M. (2019). Toward understanding the “biology of mind” hypothesis. *Applied Interdisciplinary Peirce Studies*, 10, 17-58.
- Bisanz, E., Cunningham, S., Hendrick, C., **Johnson, L.**, Ketner, K. L., McLaughlin, T. (Lead Author), & O'Boyle, M. (2015). “Betagraphic”: An alternative formulation of predicate calculus. *Transactions of the Charles S. Peirce Society*, 51(2), 137-172.
- Bisanz, E., Cunningham, S., Hendrick, C., **Johnson, L.**, Ketner, K. L., McLaughlin, T., & O'Boyle, M. (2011). Peirce’s non-reduction and relational completeness claims in the context of first-order predicate logic. *Kodikas/Code*, 34(1-2), 3-14.

## PUBLISHED POLICY BRIEF

- Schmidt, M., **Johnson, L.**, Mohammed, F. & Hamman, D. (2020). *Assessment of effectiveness of Tech Teach Across Texas graduates*. Texas Education Research Center. <https://texaserc.utexas.edu/wp-content/uploads/2020/02/102-UTA110-Brief-TechTeach-1.28.20.pdf>

## PRESENTATIONS

- Kirksey, J. J., Freeman, J. A., **Johnson, L.**, & Crevar, A. R. (Accepted 2023, March). Tracking undergraduate research in Texas: What student and institutional characteristics are associated with participation in course-based undergraduate research? [Paper presentation]. Association for Education Finance and Policy (AEFP) Conference, Denver, CO, United States.
- Carroll, B., **Johnson, L.**, & Spradlin, L. (2022, October). *Unlocking the mystery of NSSE: Increasing responses, planning ahead, and utilizing data* [Conference presentation]. Texas Association for Higher Education Assessment (TxAHEA) Conference, San Antonio, TX, United States.
- Moskal, B., Dwyer, J., Lee, J., Williams, G. B., & **Johnson, L.** (2022, June). *Measurements for learning and practice: The revised calculus concept inventory (RCCI)* [Poster presentation]. National Science Foundation 2022 Improving Undergraduate STEM Education (IUSE) Summit, Washington, DC, United States.
- Hite, R., Velasco, R. C. L., **Johnson, L.**, Gottlieb, J., & McNaughtan, J. (2022, April). *Examining the situative progression of teachers’ novice-to-expert development in education policy* [Paper presentation]. American Educational Research Association (AERA) Conference, San Diego, CA, United States.

- Johnson, L.**, Crevar, A., & Kirksey, J. J. (2022, March). *The promise of P-TECH: Examining impacts of CTE-focused dual credit turnaround model in Texas schools* [Paper presentation]. Association for Education Finance and Policy (AEFP) Conference, Denver, CO, United States.
- Kirksey, J. J., Horvath, A., Hand, E., Jones, J., & **Johnson, L.** (2022, March) *Shared identities: Short- and long-run benefits of demographic representation in middle school and high school math courses* [Paper presentation]. Association for Education Finance and Policy (AEFP) Conference, Denver, CO, United States.
- Hite, R., Gottlieb, J., Velasco, R. C. L., & **Johnson, L.** (2021, April) *Shifts in learning assistants' self-determination from COVID-19 disruptions in calculus II course delivery* [Roundtable paper presentation]. American Educational Research Association (AERA) Conference, Virtual.
- Wiseman, A. W., & **Johnson, L.** (2021, April). *Data made me do it: edTPA and the algorithmization of teacher preparation practices and policies* [Conference presentation]. American Educational Research Association (AERA) Conference, Virtual.
- Kirksey, J. J., Gottlieb, J., & **Johnson, L.** (2021, March) *Demographic representation in gatekeeping courses: How race and gender matching in 9th grade math courses relates to later academic outcomes* [Paper presentation]. Association for Education Finance and Policy (AEFP) Conference, Virtual.
- Gramm, K., Green, B., **Johnson, L.**, & Williams, T. (2021, March). *Threading the needle: Beginning with the end in mind* [Conference presentation]. OPEN 2021 Conference, Virtual.
- Elefante, J., **Johnson, L.**, & Tucker, C. (2021, March) *Faces in the classroom: The impact of familiar and demographically representative peers and teachers on student attendance and academic outcomes* [Invited presentation] ExpandedED: Broadening the Understanding of Contemporary Issues in Education and Policy Speaker Series, Virtual.
- Schmidt, M., & **Johnson, L.** (2019, October). *Large-scale teacher education program assessment at the Texas Education Research Center* [Conference Presentation]. Consortium of State Organizations for Texas Teacher Education Conference, Frisco, TX, United States.
- Hite, R., **Johnson, L.**, Sobehrad, L., & Spott, J. (2019, October). *Texas Tech University / Lubbock ISD middle school STEM challenge: Two years of community-engaged scholarship* [Paper presentation]. National STEM Education Research Summit, Raleigh, NC, United States.
- Dwyer, J., **Johnson, L.**, Spott, J., & Hite, R. (2019, October). *Cardboard boats and answered e-mails: Enhanced engaged scholarship via responsive outreach* [Conference presentation]. Engagement Scholarship Consortium Conference, Denver, CO, United States.

- Lock, R. H., **Johnson, L.**, Sobehrad, L., & Rodriguez, T. (2019, October). *Sustaining large-scale university/K-12 partnerships with authentic communication*. [Conference presentation] Engagement Scholarship Consortium Conference, Denver, CO, United States.
- Rodriguez, T., **Johnson, L.**, Sobehrad, L., & Reyes, R. (2019, September). *Estacado Early College High School partnerships* [Invited presentation] West Texas Regional College and Career Readiness School Model Fall Conference, Lubbock, TX, United States.
- Spott, J., **Johnson, L.**, Hite, J., & Dwyer, J. (2019, April). Bridging the STEM Education Continuum: School District and Higher Education Collaboration for a Middle School STEM Competition. Presentation at the Regional Engaged Scholarship Symposium, Lubbock, TX.
- Lock, R. H., Rodriguez, T., & **Johnson, L.** (2019, April). *Examining authentic engagement through an early college lens* [Conference presentation]. Regional Engaged Scholarship Symposium, Lubbock, TX, United States.
- Lock, R. H., **Johnson, L.**, & Rodriguez, T. (2017, February). *Lessons learned at Estacado Early College High School* [Conference presentation]. Regional Academic Engagement Symposium, Lubbock, TX, United States.
- Calhoun, J., Green, W., **Johnson, L.**, & Spott, J. (2015, January). *Involving undergraduates in biomath research using high performance GPU computing* [Conference presentation]. Joint Mathematics Meetings, Mathematical Association of America (MAA) Session on Trends in Undergraduate Math and Biology Education, San Antonio, TX, United States.
- Dwyer, J., **Johnson, L.**, & Williams, G. B. (2014, August). *Surviving active learning in mathematics* [Conference presentation]. Mathematical Association of America (MAA) Mathfest Conference, Portland, OR, United States.
- Ellingson, L., Dwyer, J., **Johnson, L.**, & Spott, J. (2014, January). *Texas Tech Summer Math Academy* [Conference presentation]. Joint Mathematics Meetings, Baltimore, MD, United States.
- Cañas-Carrell, J., Dwyer, J., **Johnson, L.**, Muñoz, J., & Schovanec, L. (2014, January) *Integrated STEM Initiative on the South Plains* [Conference presentation]. Joint Mathematics Meetings, Baltimore, MD, United States.
- Cañas-Carrell, J., Dwyer, J., Schovanec, L., & **Johnson, L.** (2013, October) *Institutionalizing STEM education and outreach at Texas Tech University* [Conference presentation]. Engagement Scholarship Consortium Conference, Lubbock, TX, United States.
- Dwyer, J., & **Johnson, L.** (2013, April). *Math clubs: A new paradigm for extending grassroots efforts to national initiatives* [Conference presentation]. Mathematical Association of America (MAA) Texas Section Meeting, Lubbock, TX, United States.

**Johnson, L., & Dwyer, J.** (2013, April). *Mentorship in undergraduate mathematics*, Mathematical Association of America (MAA) Texas Section Meeting, Lubbock, TX, United States.

**Johnson, L., & Pearce, K.** (2013, January). *Helping students succeed in mentoring relationships* [Conference presentation]. Joint Math Meetings, Mathematical Association of America (MAA) Session on Effective Strategies and Programs for Mentoring Women and Minorities in Mathematics, San Diego, California, United States.

Dwyer, J., **Johnson, L., & Sherrod, S.** (2013, January) *Faculty perceptions of mentoring underrepresented students* [Conference presentation]. Joint Mathematics Meetings, San Diego, CA, United States.

**Johnson, L., & Dwyer, J.** (2012, April) *From grass roots to world wide: The Texas Tech math and science club* [Conference presentation]. Mathematical Association of America (MAA) Rocky Mountain Section Meeting, Denver, CO, United States.

## CONFERENCES AND SESSIONS ORGANIZED

Texas Tech University Discoveries to Impact Week, Lubbock, Texas, 2020 - 2023

American Mathematical Society (AMS) Special Session on Undergraduate Research, Lubbock, Texas, April, 2014

Texas Tech University Undergraduate Research Conference, Lubbock, Texas, 2011 - 2023

## EXTERNAL FUNDING

**Johnson, L.** (Principal). (2023). *TrUE transformers project* [Grant]. Helen Jones Foundation, \$50,000. Funded.

Kirksey, J. J. (Principal), **Johnson, L.** (Co-Principal), Spott, J. (Co-Principal), Higgins, R. (Co-Principal), Gottlieb, J. J. (Co-Principal). (2022-2025) *Investigating pre-college predictors and post-secondary effects of course-based undergraduate research experiences in Texas* (Award No. 2201863) [Grant]. National Science Foundation (NSF), Division of Undergraduate Education (DUE), \$499,999. Funded.

**Johnson, L.** (Principal). (2022). *TrUE transformers project* [Grant]. Helen Jones Foundation, \$50,000. Funded.

Dwyer, J. (Principal), **Johnson, L.** (Co-Principal). (2021-2025) *Collaborative research: Investigating STEM teacher preparation and rural teacher persistence and retention* (Award No. 2050080) [Grant]. National Science Foundation (NSF), Division of Undergraduate Education (DUE), \$69,874. Funded. [https://www.nsf.gov/awardsearch/showAward?AWD\\_ID=2050080](https://www.nsf.gov/awardsearch/showAward?AWD_ID=2050080)

## AWARDS AND HONORS

- Helen DeVitt Jones Part-time Graduate Fellowship, 2020-2023
- Roe L. Johns Student Travel Grant to AEFP Conference, 2021-2022
- TTU College of Education Graduate Scholarship Recipient, 2018-2020
- TTU Staff Senate Outstanding 3rd Year Senator, 2019
- TTU President's Excellence in Gender Equity Award Nominee, 2019
- TTU College of Education Distinguished Staff Award: Chancellor's Award for Excellence, 2019
- TTU Distinguished Staff Award: Chancellor's Colonel Rowan Award for Execution, 2014
- Hardwick Graduate Fellowship, 2012
- TTU Outstanding Student Employee of the Year Runner-Up, 2008

## MEMBERSHIPS

- Association for Education Finance and Policy (AEFP)
- Phi Beta Kappa Society
- Honor Society of Phi Kappa Phi

## TEACHING EXPERIENCE

### Texas Tech University Department of Mathematics & Statistics

Adjunct Instructor 2012 - 2013

- MATH 4371, Basic Computer Literacy & Programming

Graduate Part-Time Instructor 2009

- MATH 0302, Developmental Intermediate Algebra

## PROFESSIONAL SERVICE

- Grant Reviewer - *Texas Education Agency (TEA), Fall 2020*

## SERVICE

- TTU Quality Enhancement Plan Committee - *Member, 2022 - Present*
- TTU McNair Scholars Advisory Council - *Member, 2020 - Present*
- TTU Staff Senate - *Senator, 2016 - 2019*
- TTU College of Education Staff Council - *Member, 2016 - 2018*
- TTU STEM Center for Outreach, Research & Education - *Fellow, 2019 - Present*
- TTU STEM Center for Outreach, Research & Education - *Member, 2015 - 2019*
- Byron Martin Advanced Technology Center - *STEM Advisory Committee, 2014 - 2015*
- Lambda Chapter of Texas, Phi Beta Kappa Society - *Webmaster, 2013 - Present*
- Lambda Chapter of Texas, Phi Beta Kappa Society - *Membership Committee, 2012 - Present*
- Center for Active Learning & Undergraduate Engagement - *Advisory Committee, 2011 - 2015*