Tamecia R. Jones, PhD

North Carolina State University
STEM - Science, Technology, Engineering, and Mathematics Education
(919) 515-6908
trjones8@ncsu.edu

Professional Positions

2018- Present   **Assistant Professor**, North Carolina State University
2017-2018   **Instructor**, North Carolina State University
2010-2017   **Graduate Research Assistant**, Purdue University

Education

2018   PhD, Engineering Education, Purdue University
2010   Master of Divinity, Theological Studies, Boston University
2004   MA, Learning, Design, and Technology, Stanford University
2002   BS, Biomedical Engineering, The Johns Hopkins University

Select Funding

2020   **Collaborative Research: Improving Undergraduate Education in Civil & Building Engineering through Student-centric Cyber-Physical Systems: Bringing Real-world Problems to Classrooms (co-PI)**
National Science Foundation ($199,999)

Select Awards and Honors

2016   NC State Building Future Faculty Workshop, North Carolina State University
2014   Engineering Education Outstanding Service Award, Purdue University
2013   Black Scholars in Science Education II Fellowship, University of Georgia/National Science Foundation
2012   Jhumki Basu Equity Scholar, National Association for Research in Science Teaching (NARST) Equity and Ethics Committee

Select Related Publications

Jones, T. R., & Burrell, S. (2022). Present in class yet absent in science: The individual and societal impact of inequitable science instruction and challenge to improve science instruction. *Science Education*. https://doi.org/10.1002/sce.21728

Tolbert Smith, D., Jones, T., & Cardella, M. E. (2022). A Narrative Investigation of Black Familial Capital that Supports Engineering Engagement of Middle-School-Aged Youth. *Journal of Pre-College Engineering Education Research (J-PEER)*, *12*(1). https://doi.org/10.7771/2157-9288.1308

Gray, D. Harris-Thomas, B.; Ali, J.; Cummings, T.; McElveen, T.; Jones, T. (2022) Urban Middle Schoolers' Opportunities to Belong Predict Fluctuations in their Engagement Across the School Day. *Urban Education 0*(0). /https://doi.org/10.1177/00420859221117682

Denson, C. D., & Jones, T. R. (2020) Mentoring for STEM Advocacy. In A. Tyler, S. Hancock, & S. C. Richardson (Eds.), *Seeing the Hidden Minority: Increasing the Talent Pool through Identifying, Socialization, and Mentoring Constructs*. Charlotte, NC: Information Age Publishing.

Wolsky, M., Linde, N., & Jones, T. R. (2014). Engineering Kids' Lives: The Art of Delivering Messages. In S. Purzer, J. Strobel, & M. E. Cardella (Eds.), *Engineering in Pre-College Settings: Synthesizing Research, Policy, and Practices*. West Lafayette, IN, United States: Purdue University Press.

Select Related Presentations

Jones, T. R., (2020) American Society of Engineering Education Virtual Annual Conference and Exposition/At Home with Engineering Education, "Development of a Mobile Application That Supports Less Obtrusive Peer Assessment in K-12 Engineering Education Using an Engineering Epistemic Frame (Work in Progress)," American Society of Engineering Education, Virtual, USA.

Denson, C. D. (Author Only), Jones, T. R. (Author Only), (2020) American Society of Engineering Education Virtual Annual Conference and Exposition/At Home with Engineering Education, "Systematic Approach to Diversifying Botswana's STEM Population," American Society for Engineering Education, Virtual.

Jones, T. R., (2019) The Joint Conference of the 106th Mississippi Valley Technology Teacher Education Conference and the 57th Southeastern Technology Education Conference, "Expansion of a K12 Engineering Epistemic Frame for Peer Assessment via Mobile Applications," MVTTEC/STEC, Clarion Hotel, Nashville, Tennessee, United States.

Jones, T. R., ASEE, (2019) "Creation of an Engineering Epistemic Frame for K-12 Students (Fundamental)," *American Society for Engineering Education Annual Conference & Exposition*, Tampa, FL.

Jones, T. R., Trusedell, J. M., Oakes, W. C., & Cardella, M. E. (2016). Measuring the Impact of Service-Learning Projects in Engineering: High School Students' Perspectives. In *2016 American Society of Engineering Education Annual Conference & Exposition*.

Paulsen, C., Wolsky, M., Cardella, M. E., & Jones, T. R. (2015). Informal Pathways to Engineering: Interim Findings from a Longitudinal Study. In *Proceedings of the 2015 American Society for Engineering Education Annual Conference & Exposition*. Seattle, WA.

Jones, T. R., Cardella, M., Paulsen, C., & Wolsky, M. (2015). Informal Pathways to Engineering: Middle-School-Aged Homeschool Students' Experiences with Engineering (Fundamental). In *2015 ASEE Annual Conference and Exposition* (1–23). Retrieved from http://peer.asee.org/24298

Jones, T. R., Cardella, M., & Purzer, S. (2014, July). *Using Social Media Behaviors to Design Language for Advancing Pedagogy and Assessment*. *19*, 358–402. https://doi.org/10.1080/10508406.2010.481013

Dorie, B. L., Pollock, M. C., Jones, T. R., & Cardella, M. E. (2014). Parents as Critical Influence: Insights from five different studies (Other). In *2014 ASEE Annual Conference and Exposition* (1–13). Retrieved from https://peer.asee.org/parents-as-critical-influence-insights-from-five-different-studies

Atwater, M., Butler, M., Gray, S., Freeman, T., Cochran, G., Shady, A., … Bayne, G. U. (2014, March). *Impact: Mini-Symposium Powerful Synergy Black Scholars in Science Education for the 21st Century in the United States, Part II*. 1–10

Jones, T. R., Cardella, M., & Purzer, S. (2013). The Design of Language for Engineering Education: Recycling IM and Text Messaging to Capture Engineering Processes. In *2013 ASEE Annual Conference & Exposition* (1–11).

Jones, T. R., Cardella, M. E., & Purzer, S. (2012, April). *The Reality Show of a High School Science, Engineering, and Design Course: Observing Documentation and Communication Patterns to Inform Pedagogy and Assessment*. 1–15.

Jones, T. R., Cardella, M. E., & Purzer, S. (2012, March). *Using and Comparing Paper Media to Improve Student Reflection in Science and Design Courses*. 1–13. Indianapolis, IN. (pp. 1–5). (2011).

Intellectual Property

2020   *Remote Interview Application*, Patent Application Pending
2019   *Mobile Application for Peer Assessment/Video Research/Teacher Professional Development*, Patent Application Pending