

EDUCATION FRONTIERS



Jerrod A. Henderson, Ph.D.

Ph.D. – University of Illinois at Urbana-Champaign
 Assistant Professor, William A. Brookshire Department of
 Chemical and Biomolecular Engineering
 Director, Program for Mastery in Engineering Studies (PROMES)
 Co-founder, St. Elmo Brady STEM Academy

Publications

1. Erik M. Hines, Mia R. Hines, James L. Moore III, Sam Steen, Paul Singleton II, Dakota Cintron, Monique N. Golden, Kimberly Traverso, Bobbi-jo Wathen & Jerrod Henderson (2020) Preparing African American Males for College: A Group Counseling Approach, *The Journal for Specialists in Group Work*, 45:2, 129-145, DOI: 10.1080/01933922.2020.1740846
2. Henderson, J.A., Snodgrass-Rangel, V., Greer, R. P., Manuel, M., Jones, S., & Doan, V. (2019). *STEM Engagement through Mentoring: Motivations of STEM Mentors*, *Proceedings of ASEE Conference*. Tampa, Florida.
3. Manuel, M., Greer, R.P., & Henderson, J. A., Snodgrass-Rangel, V. (2018). *Engagement in Practice: STEM Engagement through Mentoring*, *Proceedings of ASEE Conference*. Salt Lake City, Utah.

Dr. Henderson is well-known for his outstanding outreach initiatives drawn to encouraging students to pursue STEM education and careers. As a co-founder of the St. Elmo Brady STEM Academy (SEBA) program, he has developed out-of-school STEM interventions for K-12 students, and implemented innovative strategies in classrooms and student engagement. This program is now implemented in three schools in Houston. Through the Program for Mastery in Engineering Studies (PROMES), Dr. Henderson and his team strive to provide a positive learning environment that supports the needs of undergraduate students.

In 2017, Dr. Henderson was recognized as an Inspiring Leader in STEM by Insight into Diversity Magazine. The University of Illinois awarded him the Young Alumni Achievement award in 2019. Most recently, Dr. Henderson received the Black Engineer of the Year Award for College Level Promotion of Education (2021).

ENGINEERING EDUCATION



Dr. Henderson is the principal investigator (PI) on three NSF funded projects and a co-PI on another research project, all of which focus on the engagement of underrepresented students in engineering.

The Henderson Research Group (HRG) seeks to *investigate issues of diversity, equity, and inclusion relating to the participation of individuals from diverse backgrounds, especially Black men, in engineering* with a focus on how they become interested in engineering and their trajectory towards the engineering professoriate.

This research group uses mixed methods for investigations. HRG not only disseminates work through traditional mechanisms (e.g. papers and presentations) but also produces interventions and programs aimed at broadening participation in engineering.