

DEPARTMENT OF
ENGINEERING EDUCATION



OUR FACULTY'S
"GREATEST HITS"

PUBLICATIONS TO READ AND KNOW

Dr. Monica Cox

Demystifying the Engineering PhD

Cox, M.F. (2019). Demystifying the Engineering PhD. Academic Press.

Dr. Ann Christy

Thermodynamics for Citizenship: Entrepreneurial Engineering Through Project- Based Learning

Christy, A.D., Wilson, T.G., Meehl, O.J. (2019). [Thermodynamics for Citizenship: Entrepreneurial engineering through project-based learning](#). Proceedings of the 2019 ASEE Annual Conference, Tampa, FL. American Society for Engineering Education. Paper ID#27281. 9 p

The University's Role in Professional Development for Computer Aided Engineering

Nutwell, E.C., Christy, A.D. (2019). [The University's Role in Professional Development for Computer Aided Engineering](#). Proceedings of the 2019 ASEE Annual Conference, Tampa, FL. American Society for Engineering Education. Paper ID#25491.

The Use of Student Portfolios in Engineering Instruction

*Christy, A.D., Lima, M. (1998). [The use of student portfolios in engineering instruction](#). *Journal of Engineering Education* 87(2), 143-148.*

An Investigation of Inter-Stakeholder Dynamics Supportive of STEM, Community-Based Learning

Delaine, D.A., Cardoso, J.R., Walther, J. (2019). [An Investigation of Inter-Stakeholder Dynamics Supportive of STEM, Community-Based Learning](#). *International Journal of Engineering Education*, 35(4), 1094-1109.

A Pilot Study of the Development of Empathy within a Service-learning Trip from a Qualitative Perspective

Wang, L., Carroll, T.K., Delaine, D.A. (2018). [A Pilot Study of the Development of Empathy within a Service-learning Trip from a Qualitative Perspective](#). *ASEE Paper*.

Global Diversity and Inclusion in Engineering Education: Developing Platforms toward Global Alignment

Delaine, D.A., Williams, D.N., Sigamoney, R., Tull, R.G. (2016). [Global Diversity and Inclusion in Engineering Education: Developing Platforms toward Global Alignment](#). *International Journal of Engineering Pedagogy* 6(1), 56-71.

To What Extent Does Gender and Ethnicity Impact Engineering Students' Career Outcomes? An Exploratory Analysis Comparing Biomedical to Three Other Undergraduate Engineering Majors

Ortiz-Rosario, A., Shermadou, A., Delaine, D.A., Nocera, T.M. (2019). [To What Extent Does Gender and Ethnicity Impact Engineering Students' Career Outcomes? An Exploratory Analysis Comparing Biomedical to Three Other Undergraduate Engineering Majors](#). *ASEE Paper*.

Dr. David Delaine, cont'd

Air Traffic Control (ATC) Technical Training Collaboration for the Advancement of Global Harmonization

Martin, A., Strzempkowski, B., Young, S., Fontecchio, A.K., Delaine, D.A. (2020). [Air traffic control \(ATC\) Technical Training Collaboration for the Advancement of Global Harmonization](#). Journal of Air Transport Management 89

Dr. Emily Dringenberg

Who is Smart? High School Science and Engineering Students' Beliefs about Smartness

Kramer, A., Dringenberg, E. (2020). Who is Smart? High School Science and Engineering Students' Beliefs about Smartness. Proceedings of the Collaborative Network for Engineering and Computing Diversity Annual Conference. Crystal City, VA.

Construction of Intelligence in Engineering: Gatekeeper to Diversity and Inclusion

Carroll, T., Kramer, A., Dringenberg, E. (2019). Construction of Intelligence in Engineering: Gatekeeper to Diversity and Inclusion. Proceedings of the Collaborative Network for Engineering and Computing Diversity Annual Conference. Crystal City, VA.

Dr. Rachel Kajfez

First-Year Engineering Students' Perceptions of Engineering Disciplines: A Qualitative Investigation

Kajfez, R.L., Kecskemety, K.M., Miller, E. **, Gustafson, K. **, Meyers, K., Bucks, G., & Tanner, K. ** (2018). [First-year engineering students' perceptions of engineering disciplines: A qualitative investigation](#). *International Journal of Engineering Education*, 34(1), 88-96.

Competence, Autonomy, and Relatedness as Motivators of Graduate Teaching Assistants

Kajfez, R.L. & Matusovich, H.M. (2017). [Competence, autonomy, and relatedness as motivators of graduate teaching assistants](#). *Journal of Engineering Education*, 106(2), 245-272. doi:10.1002/jee.20167

Undergraduate Engineering Students' Perceptions of Research and Researchers

Faber, C. J., Kajfez, R. L., McAlister, A. M. **, Ehlert, K. M. *, Lee, D. M. *, Benson, L. C., & Kennedy, M. S. (2020). [Undergraduate engineering students' perceptions of research and researchers](#). *Journal of Engineering Education*, 109(4): doi: 10.1002/jee.20359.

Dr. Julie Martin

Centering the Marginalized Student's Voice Through Autoethnography: Implications for Engineering Education Research

Martin, J. P., and Garza, C. (2020). *Centering the Marginalized Student's Voice Through Autoethnography: Implications for Engineering Education Research*. *Studies in Engineering Education*, 1(1).

Time for a Culture Change—Moving Academia from Destructive to Constructive Feedback

Martin, J.P. (2020) [Time for a Culture Change—Moving Academia from Destructive to Constructive Feedback](#), editorial in *Journal of Women & Minorities in Science & Engineering*

Interventions Supporting Baccalaureate Achievement of Latinx STEM Students Matriculating at Two-Year Institutions: A Systematic Review

Martin, J.P., Choe, N., Foster, M., Halter, J., Borrego, M., Froyd, J.E., and Winterer, E. (2018). [Interventions supporting baccalaureate achievement of Latinx STEM students matriculating at 2-year institutions: A systematic review](#). *Journal of Research in Science Teaching*, 56(4), 440-464.

The Invisible Hand of Social Capital: Narratives of First-Generation College Students in Engineering

Martin, J. P. (2015). [The invisible hand of social capital: Narratives of first-generation college students in engineering](#). *International Journal of Engineering Education*, 31(4), 1170-1181.