

Kendrick B. Davis

M.S.E., M.L., PH.D.

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PROFESSIONAL APPOINTMENTS

- 2020 - **University of Southern California - Los, Angeles, CA.**
- *Inaugural Co-Director, USC STEM Center; A research and practice hub advancing the study and implementation of high-quality STEM teaching. We focus on building science identities among educators and learners, enhancing pedagogical expertise, and developing evidenced-based tools and frameworks to support equitable STEM education.*
 - *Professor of Research, Rossier School of Education (2024 -*
 - *Associate Professor of Research, Rossier School of Education (2020-2024);*
 - *Chief Research Officer - USC Race and Equity Center (2020-2023).*
- 2019-2020 **Campaign for College Opportunity - Los, Angeles, CA.**
- *Vice President for Policy Research - Oversaw the development and publication of higher education policy research attending to issues of equity and access for marginalized communities in California higher education.*
- 2020- **Micro Nano Technology Education Center at- Pasadena, CA.**
- *Director of Undergraduate Research Programs - Coordinate DEI efforts, undergraduate research, and strategic outreach and partnership development for the \$12M+ NSF-funded center at Pasadena City College (PCC). Raised \$3M+ in NSF projects to support community college and MSI student research in STEM fields.*
- 2019 - **Loyola University Chicago - Chicago, IL.**
- *Visiting Scholar, educational researcher, research advisor & instructor - School of Education*
- 2018-2019 **Office of US Senator Kamala D. Harris - Washington, D.C.**
- Policy Advisor and AAAS Congressional Science and Engineering Fellow - Areas of policy work included K-12 and higher education, STEM education, workforce development, and national security.*
- 2014-2018 **Mayor's Office of Education - Philadelphia, PA**
- *Director of STEM Initiatives - Advisor to the mayor and cabinet on STEM education, industry, and policy.*
 - *Liaison to the White House Office of Science and Technology Policy - Advised White House staff on local implementation of federal STEM programs and policy.*
 - *US 2020 Program Director - Coordinated one of eight (8) city pilots aimed at recruiting 1 million STEM mentors nationally by the year 2020.*

- 2010-2014 **The School District of Philadelphia**
- *STEM Education and Grants Compliance Manager* - Led the division of STEM Initiatives; managed related special assignments for the Superintendent; managed contracts and compliance for \$20M+ in US and PA Department of Education grants.

OTHER PROFESSIONAL EXPERIENCE

- Summer 2015 **Education Consortium for the Advancement of STEM in Egypt (ECASE) - Cairo and Saqqara, Egypt**
Robotics Education Expert - Member of US delegation to Egypt for STEM education reform project supported by the United States Agency for International Development (USAID) and facilitated by the Egyptian Ministry of Education in the El-Sisi Administration.
- 2006-2011 **Temple University Math-Science Upward Bound - Philadelphia, PA**
Instructor and Mentor - Provided instruction for biology, chemistry, physics, and physical sciences and college preparatory programming.
- 2007-2008 **Temple University College of Engineering - Philadelphia, PA**
Researcher, Material Composite Laboratory - Prototyped, tested, and reported to PI on electromagnetic field strength test for a bone-lengthening device using magnetostrictive shape memory alloy.
- Summer 2008 **EMCOR/FLUIDICS**
 Assistant Project Manager - Oversaw the mechanical contracting retrofit of residential housing project on Temple University Main Campus - HVAC expertise.

SPONSORED PROJECTS

- [2024-2026] Principal Investigator: Expanding Criminal Justice Reform Critical Policy Research: Ideating Research to Practice Strategies for System and Justice-Impacted Communities (with Royel Johnson (Co-PI) & Dwuana Bradley (Co-PI)) at the Rossier School of Education. The Walmart Foundation, \$1,000,000.
- [2023-2027] Co-Investigator: A Phase IIb, Randomized, Assessor-Masked Clinical Trial to Assess the Safety and Efficacy of the CPCB-RPE1 Implant in Subjects with Geographic Atrophy (with Regenerative Patch Technologies (RPT), at the Rossier School of Education with the USC Race and Equity Center (REC), and the USC Ginsburg Institute for Biomedical Therapeutics at the Keck School of Medicine, Dr. Mark Humayan (PI). California Institute for Regenerative Medicine (CIRM), \$12,400,000. Subaward to Rossier, \$300,000.
- [2022-2025] Co-PI: Developing NACCC Campus Racial Climate Solutions (with Shaun Harper (PI) and Brandi Jones (Co-PI)) at the USC Race and Equity Center. Bill and Melinda Gates Foundation, \$1,090,597.
- [2021-2023] Principal Investigator: Higher Education Evaluation and Equity Assessment of Higher Education Service Delivery Networks at the USC Race and Equity Center. The Bill & Melinda Gates Foundation, \$420,000
- [2021-2023] Principal Investigator: Building a Prevention Focused Criminal Justice Reform Racial Equity Research Network at the USC Race and Equity Center. The Walmart Foundation, \$350,000.
- [2021-2023] Co-Principal Investigator and Project Director: Racial Equity Leadership Academy for Computer Science and Engineering Leaders - with Dr. Shaun Harper (PI) & Dr. Brandi Jones (Co-PI) at the USC Race and Equity Center. Sloan Foundation, \$250,000.

OTHER SPONSORED PROJECTS

- [2024-2026] Co-Principal Investigator & Director: Advanced Technology Technician Training (AT3) Program - with Jared Ashcroft, PI. National Science Foundation housed at the Micro Nano Technology Education Center, Pasadena City College (PCC), \$1,200,000

- [2024 - 2026] Evaluator: Neuroscience and Society Implementation Project (with Bill Rochlin (PI) & Demetri Morgan (Co-PI)) at Loyola University Chicago. Dana Foundation, \$1,000,000.
- [2023-2024] Co-Principal Investigator: Effective Teaching and Learning amid a Democracy in Crisis - with Demetri Morgan, PI and Norma Lopez, Co-PI at Loyola University Chicago. Lumina Foundation; \$125,000
- [2022-2023] Evaluator: Neuroscience and Society: Student Focused, Community Engaged, Interdisciplinary Approach: A Demonstration Project (with Bill Rochlin (PI), and Demetri Morgan (Co-PI)) at Loyola University Chicago. Dana Foundation, \$120,000.
- [2021-2024] Co-Principal Investigator & Director: Micro Nano Technology Collaborative Undergraduate Research Network (MNT-CURN) - with Jared Ashcroft, PI. National Science Foundation housed at the Micro Nano Technology Education Center, Pasadena City College (PCC), \$1,300,000.
- [2019-2024] Senior Research Personnel - Illinois Louis Stokes Alliance for Minority Participation (with Chris Botanga (PI) and Demetri Morgan (Co-PI). National Science Foundation, \$3,999,553 (Subaward to Loyola University Chicago, \$323,709).
- [2015-2018] Regional Director: Junior Sciences and Humanities Symposiums (JSHS) of Greater Philadelphia in the Mayor's Office of Education- with Susan Varnum Co-Director at Temple University College of Science and Technology. Department of Defense - Army Educational Outreach Programs (AEOP): \$75,000.

PEER REVIEWED SCHOLARSHIP

- Davis, K. B., Jones, B. P., Williams, R. L., Sims, E., Page, S., & Smith, M. (2024). Navigating highly resourced and restricted policy environments: "Gate-breaking" strategies for higher education STEM leaders and advocates. *Journal of Higher Education*. Special issue LOI. [Submitted]
- Morgan, D., Acevedo, M., Davis, K., Velazquez, I. (2023). *Placemaking within the STEM ecosystem amid a Pandemic: Considerations for Expanding Racial Equity*. Urban Education. [R&R]
- López, N., Morgan, D. L., Hutchings, Q. R., & Davis, K. (2022). Revisiting critical STEM interventions: a literature review of STEM organizational learning. *International Journal of STEM Education*, 9(1), 1-14.
- Morgan, D. L., Callais, V. E., Acevedo, M., & Davis, K. B. (2021). A potential 'canary in the coal mine': A critical policy analysis of the Illinois LSAMP during the COVID-19 pandemic. [Invited Submission]. *Frontiers in Education - STEM Education*, Special Issue: New Developments in Pathways Towards Diversity and Inclusion in STEM: A United States Perspective, Louis Stokes Midwest Regional Center for Excellence.
- Feldman, R. Davis, K. (2021). Federal education policy process. In Urevick, A., DeMatthews, D., & Ford, T. (Eds), *Maximizing the policy-relevance of research for school improvement*. Urevick, A. DeMatthews, D. Ford, T. (Eds).
- Morgan, D., Davis, K., Lopez, N. (2020). Engineering Political Fluency: Identifying Tensions in the Political Identity Development of Engineering Majors. *Journal of Engineering Education*. (Published).

POLICY-RELEVANT SCHOLARSHIP

- *Inclusive Innovation Equitable Entrepreneurship across the University of California System Report (2024)*. University of California Office of the President [Forthcoming], Report Reviewer.
- Davis, K.B., Tran, Mihn, Simmons, I. (2023). *Report of the qualitative analysis for UC system innovation and entrepreneurship survey*. Inclusive Innovation and Equitable Entrepreneurship (I2E2) initiative at the University of California Office of the President.
- Davis, K.B., Walker, D. (2023). *Building a Gender Wealth Index for the Philadelphia Region* report. Women's Way. <https://womensway.org/>

- Davis, K.B., Walker, D. (2023). *Quality, Equity and Network Health: Considerations and Recommendations*. A evaluation report for the *Higher Endeavor Ecosystem* commission by the Bill and Melinda Gates Foundation (BMGF). Seattle, WA.
- Davis, K. (September, 2022). *AERA Member Kendrick Davis Provides Tips for Sharing Research with Policy Makers*. AERA Newsletter. <https://www.aera.net/Newsroom/AERA-Highlights-E-newsletter/AERA-Highlights-September-2022/AERA-Member-Kendrick-Davis-Provides-Tips-for-Sharing-Research-with-Policy-Makers>
- Catalyze Tech Working Group. (2021). SNAP, Inc. <https://actreport.com/>, *Actions to Catalyze Tech: A paradigm shift for DEI report*, Reviewer
- Morgan, D. L., Davis, K. B., López, N., & Acevedo, M. ILSRA Interactive Map. [Interactive Map]. Retrieved from: <https://arcg.is/1byina0>
- Davis, K. (2019). The silence is deafening. *Inside Higher Ed*. Retrieved from <https://www.insidehighered.com/views/2019/09/17/institutions-shouldnt-remain-silent-face-professors-questionable-behavior-toward>.

TEACHING EXPERIENCE

University of Southern California

- [Spring 2023] Educational Research Directed Study (EDUC 790) with Sociology Ph.D. student, Instructor
- [Fall 2022] Racism and Anti-Blackness in Education, Rossier School of Education (EDUC 667), Instructor
- [Spring 2021] Undergraduate Policy, Planning, and Development Studio, Price School of Public Policy, Instructor
- [Fall 2020] Education Policy, Price School of Public Policy, Master's PP Program, Instructor

Loyola University Chicago

- [Spring 2021] Politics of Higher Education, School of Education, Instructor
- [Spring 2022] Higher Education Policy Independent Study, School of Education, Instructor

University of Pennsylvania

- [Summer 2017] Law and Higher Education, Graduate School of Education, Instructor

PRESENTATIONS & INVITE TALKS

- 2023 Semiconductor Education and Workforce Convening. *Charting the path forward: curriculum development, student success, faculty development, and infrastructure support in the fields of microelectronics*. National Science Foundation in partnership with the Micro Nano Education Technology Education Center (MNTEC). Washington, DC, Facilitator
- Davis, K.B. (2023). *Building a gender wealth index for Philadelphia: a mixed-methods approach for measuring equity gaps for women in wealth-building*. Gender Wealth Summit, Philadelphia. Women's Way.
- Davis, K.B. (2023). *Advancing institutional alliances: An equity-centered dynamic approach to higher education network learning across policy contexts*. As part of the Challenges and opportunities of implementing equity policies in higher education. 2023 American Educational Research Association (AERA). Chicago, IL.
- Davis, K. (2022). *Developing Strategic Racial Equity Plan for STEM Department Faculty*. *Racial Equity Leadership Academy for STEM Faculty*. USC Race and Equity Center.
- Hung, Y., Trinidad, A., Davis, K. (2022). *STEM experiences with campus racial climate*. Humanizing student experiences: examining intersectionality in the National Assessment of Collegiate Campus Climate Survey Symposium. Association for the Study of Higher Education Annual Conference. Las Vegas, NV.
- Davis K.B., Griffin A., Davis III C., Hall C., Todd J., (2022). *Enabling the prevention environment: race conscious research in criminal legal reform*. CJR Racial equity research

fellows convening at the American workforce and justice (AWJ) Conference 2022 in Atlanta, GA, facilitator.

- Davis, K. (2022). *Recognizing and addressing implicit bias in STEM department and using anti-deficit framing*. Racial Equity Leadership Academy for STEM Faculty. USC Race and Equity Center.
- Hung, Y., Davis, K. (2022). Identifying racial equity gaps: NACCC annual results. Measuring Campus Racial Climate Symposium. American Educational Research Association Annual Meeting. San Diego, CA.
- (Kennedy, V., Davis, K., Ehrmann, R. (2022). *Addressing equity in the national technical education workforce*. Professional Webinar session hosted by Penn State Nanotechnology and Career Knowledge (NACK) Support Centers, the Micro Nano Technology Education Center & IBM. Virtual, Facilitator.
- Davis, K. (USC), Mataric M. (USC), Jenkins, C. (UMich). (2021). *Race, Robotics, and Civil Rights*. Collaborative Event: Viterbi School of Engineering and the USC Race & Equity Center. Robotics Education Week <<https://viterbik12.usc.edu/robotics-2021/>>.
- Morgan, D. L., Acevedo, M., Velasquez, I. & Maambo, C. & Davis, K. B. (2021). *Placemaking within the STEM ecosystem amid a pandemic: Considerations for expanding racial equity*. Paper presented at the 2021 Association for the Study of Higher Education (ASHE) Virtual Conference.
- Morgan, D. L., Davis, K., López, N. & Hutchings, Q. (2019). Organizational learning and revisiting critical STEM interventions. Paper session presented at the 2019 Association for the Study of Higher Education (ASHE) Conference in Portland, OR.
- Morgan, D., Davis, K., Lopez, N. (2017). *Engineering Political Fluency*. Poster presented at the annual meeting of the American Educational Research Association, San Antonio, TX.

RECOGNITIONS & AWARDS

- Program Innovation Award at the 2023 High-Impact Technology Exchange Conference for the Micro Nano Technology Collaborative Undergraduate Research Network (MNT-CURN) initiative (program co-lead)
- Honored as one of 50 Great Engineers for Temple University College of Engineering 50th Anniversary Celebration (2023).
- Selected as a 2020 *Emerging Scholar* by DIVERSE publication.
- Excellence in Academic and Intellectual Life, College Houses and Academic Services (CHAS), University of Pennsylvania, 2016-2017.
- Dean's Fellowship, University of Pennsylvania Graduate School of Education, 2015-2018.
- Effective Leadership Award, Greater Philadelphia Professionals Chapter, National Society of Black Engineers, 2009.

EDUCATION

University of Pennsylvania

- Ph.D. in Higher Education – Penn Graduate School of Education
- Master's in Law (ML) – Penn Carey Law School
- Master of Science in Engineering (MSE), Robotics – School of Engineering and Applied Science (SEAS)

Temple University

- Bachelor of Science in Mechanical Engineering (BSME) – Honor's Distinction
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