

Deidra D. Davis, PhD.

Instructional Assistant Professor

Texas A&M University

Department of Landscape Architecture & Urban Planning

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EDUCATION

Ph.D. Environmental Resources and Policy Program, May 2017

Southern Illinois University, Carbondale, Illinois

Dissertation Title: *Investigating Public Participation in the Environmental Decision-Making Process: A Case Study of Northeast Carbondale, Illinois*

Public participation, Brownfield sites, Environmental Justice, Land contamination

Mixed Method methodology

SPSS and Nvivo utilization

M.S. Geography and Environmental Resources, May 2012

Southern Illinois University, Carbondale, Illinois

Department of Geography and Environmental Resources

Thesis Title: *Access to Fresh Foods: Socio-economic Characteristics of Illinois farmers' markets participating in Government Funded Food Assistance Programs*

Illinois Farmers Market and SNAP acceptance initiative

Case study: 61st Farmers market

Qualitative methodology

B.S. Biology, May 2009

Chicago State University, Chicago, Illinois

Biology Science

Undergraduate research: *Salinity Stress in Plants: Light microscopy analysis of salt stress on 2 sweet potato cultivars within the first 24-48 hours of exposure 2007-2009*

Plant husbandry

Sweet potato cultivar analysis

Light microscopy utilization

TEACHING AND RESEARCH INTEREST

- Environmental Justice
- Land contamination
- Public Participation
- Environmental Decision Making
- Equitable Planning
- Global/Community Engagement
- Environmental Land-Use
- Sustainable Communities

PROFESSIONAL APPOINTMENTS

Assistant Dean of Community Wellness & Engagement School of Architecture Texas A&M University	Sept. 2023-July 2024
Assistant Dean of Diversity and Inclusion School of Architecture Texas A&M University	Sept. 2021-2023
Faculty Fellow Center for Housing and Urban Development Texas A&M University 3-year appointment	May 2020-2022
Director of Equity and Inclusion Hazard Recovery Resilience Center Texas A&M University	Oct 2019- 2021
Faculty Affiliate Texas Target Communities Texas A&M University	Jan 2019- present
Instructional Assistant Professor Department of Landscape Architecture and Urban Planning Texas A&M University	Jan 2019 - present
Instructor Department of Geography Texas A&M University	Aug 2017-May 2018
Teaching Assistant Department of Geography Southern Illinois University	Jan 2011-May 2017
Research Assistant Department of Zoology Southern Illinois University	Aug 2009-Jan 2011

TEACHING

CARC 101: Cultural Discourse

Texas A&M University, Department of Landscape Architecture & Urban Planning

Level: Undergraduate

Introduction to cultural and social issues in planning, design, construction, creativity and the visual arts; exploration of how individual and collective values and beliefs are expressed in the practice of architecture, landscape architecture, urban planning, construction science and the arts; how these fields internalize and reify these values while creating the natural, built and virtual environments; emphasis on civil discourse to help recognize positionality and work collaboratively in a multicultural society.

CARC 311: Field Studies in Design Communications (Study Abroad – Bonn, Germany)

Texas A&M University, School of Architecture

Level: Undergraduate

Design communication in international and domestic environments away from the Texas A&M University campus; emphasis on the tools, methods and techniques for design communication.

CARC 331: Field Studies in Design Philosophy (Study Abroad – Bonn, Germany)

Texas A&M University, School of Architecture

Level: Undergraduate

Design philosophy in international and domestic environments away from the Texas A&M University campus; emphasis on the historical, philosophical, cultural, social and economic factors that influence design solutions.

CARC 481: Semester Abroad seminar

Texas A&M University, Department of Landscape Architecture & Urban Planning

Level: Junior/Senior

Preparatory seminar for select College of Architecture study away and internships; topics include introduction to the language, culture and history of study abroad location. Must be taken the spring semester before the student's study away semester.

GEOG 104: Weather, Climate and Society

Southern Illinois University, Department of Geography

Level: Undergraduate

A scientific introduction to the physical processes responsible for weather and climate and the application of fundamental scientific skills to address aspects of weather and climate that are of particular importance to society at large.

GEOG 201: Human Geography

Texas A&M University, Department of Geography

Level: Undergraduate

Introduction to Human Geography. A survey of the major systems of man-land relations of the world and their dissimilar developments; the processes of innovation, diffusion,

and adaptation stressed with regard to changing relationships between people and their environment.

GEOG 430: Environmental Justice

Texas A&M University, Department of Geography
(Upper-level writing-intensive course)

Level: Undergraduate

Exploration into the spatial variability and human geography of exposure to environmental hazards in U.S. and international contexts; emphasizes environmental equity and environmental racism as it relates to occupational, leisure, and residential geography.

PLAN 634: Environmental Health Planning and Policy

Texas A&M University, Department of Landscape Architecture & Urban Planning

Level: Graduate

Interdisciplinary perspective of environmental risk analysis methods and policy implications; federal and state agencies and programs involved in developing and implementing environmental health policies and monitoring environmental health hazards; historical and economic context of environmental health legislation; framework for policy making process and criteria to determine effectiveness and outcomes.

UPRN 302: Planning Law

Texas A&M University, Department of Landscape Architecture & Urban Planning

Level: Undergraduate

Familiarization with the fundamental principles of planning law and legislation; legal foundation for the urban planning process; alternative methods of plan implementation; emphasis on legal issues as they impact land use planning and development at the municipal level of government; participation in mock advocacy trials and public hearings. Prerequisites: URPN 301; URPN majors only.

URPN 360: Issues in Environmental Quality

Texas A&M University, Department of Landscape Architecture & Urban Planning

Level: Undergraduate

Issues in environmental quality; focus on stormwater and ecosystem qualities influenced by land development; design and planning principles and techniques (e.g. low impact development) for sustainable stormwater management in urban and suburban watersheds.

URPN 371: Environmental Health Planning and Policy

Texas A&M University, Department of Landscape Architecture & Urban Planning

Level: Junior/Senior

Philosophical and historical relationships of human-environment-disease; environmental health domains and associated planning and policy organizations and initiative for monitoring, intervention, and prevention; interdisciplinary approaches for risk analysis of environmental health.

URPN 201: The Evolving City

Texas A&M University, Department of Landscape Architecture & Urban Planning
Level: Undergraduate

Introduction to the history of contemporary urban and regional planning and how the evolving forms of cities and regions pose opportunities and/or challenges for planners; understanding key social, economic, political and technological forces that shape city form and function and its ramification for urban and regional planning.

URPN 202: Building Better Cities

Texas A&M University, Department of Landscape Architecture & Urban Planning
(Traditional & writing-intensive course)

Level: Undergraduate

Determinants of land use patterns; classification of uses; idealized conceptual alternatives; location and size criteria; mapping; comprehensive planning process, relationship to circulation planning.

RESEARCH PROJECTS

Texas A&M Center for Environmental Health Research (TiCER)

July 2020

Title: "Health Risks and Hazard Perception of Airborne Toxic Metals: Vulnerable Populations Neighboring the Houston Ship Channel"

Texas A&M University, College Station, Texas

Texas A&M School of Public Health

Spring 2020

Title: "Assessing creosote exposure and health outcomes within a confirmed cancer cluster in two Houston neighborhoods"

Texas A&M University, College Station, Texas

DeBakey Executive Research Leadership Program

Spring 2020

Team Leader (Undergraduate research)

Topic: Renewable Energy Placement in Environmental Justice Communities

Texas A&M University, College Station, Texas

FUNDED PROJECTS

Environmental Protection Agency

March 2023

P.I.- Cooper, J.; Co P.I.'s – **Davis, D.**, Masterson, J., Meyer, M., Vedlitz, A, Sansom, G., et al.

Awarded: 2,447,508.00

Title: Center for Environmental and Energy Justice Leadership in Texas, Arkansas, Louisiana, Oklahoma, and New Mexico (CEEJL-TALON)

TAMU Economic Development & Community Impact

Texas A&M University, College Station, Texas

National Academy of Sciences, Engineering, and Medicine

March 2002

P.I.- Li, Dongying, Co P.I.'s – **Davis, D.**, Newman, G., Mathur, V.

Awarded: 281,406.00

Title: Nature-based therapy: A socioecological and RE-AIM approach to treating disaster-related PTSD in flood-vulnerable communities

Texas A&M University, College Station, Texas

Texas A&M Center for Environmental Health Research (TiCER pilot project) July 2020

P.I.- Chellam, S., Co P.I.'s – **Davis, D.**, Mendoza, I., Johnson, N.

Awarded: 50,000

Title: "Health Risks and Hazard Perception of Airborne Toxic Metals: Vulnerable Populations Neighboring the Houston Ship Channel"

Texas A&M University, College Station, Texas

EPA-STAR grant

P.I.- Weihsueh A. Chiu, PhD;(Co P.I.'s- James Kaihatu, PhD; Galen Newman, PhD; Garrett Sansom, PhD; Engagement consultants- Jaimie Masterson, MS; Deidra D. Davis, PhD

Award: \$799,928

Title: Engaging the Galena Park Community to Build Resilience to Excess Industrial Pollutant Releases after Hurricanes and Floods in Greater Houston

Texas A&M University, College Station, Texas

PUBLICATIONS

Sansom, G. T., Hernandez, R., Johnson, J. N., Newman, G., Atoba, K., Hicks Masterson, J., Davis, D. Fawkes, L. S. (2023). *Evaluating the impact of proximity to reported toxic release facilities and flood events on chronic health outcomes in the city of Galena Park, Texas. Climate Risk Management, 40*, 100507. <https://doi.org/10.1016/j.crm.2023.100507>

Davis, D. (2017). *Investigating Public Participation in The Environmental Decision Making Process: A Case Study Of Northeast Carbondale, Illinois. Dissertations*. <https://opensiuc.lib.siu.edu/dissertations/1350/>

Davis, D. (2012). *Access to Fresh Foods: Socio-Economic Characteristics of Illinois Farmers' Markets Participating in Government Funded Food Assistance Programs. Theses*. <https://opensiuc.lib.siu.edu/theses/818/>

Davis, D., Marshall, K., & Potluri, D. P. (2008, July). Effects of salt stress on the stem and leaf tissues in sweet potato (*Ipomoea batatas* L.): Comparison between early and late stages of stress exposure. *HORTSCIENCE* (Vol. 43, No. 4, pp. 1276-1276). 113 S West St, STE 200, Alexandria, Va 22314-2851 Usa: Amer Soc Horticultural Science

UNIVERSITY PUBLICATIONS

SIUC's SHARING KNOWLEDGE, an Imagining Geographies publication.

Title: Environmental Justice in Southern Illinois: New sides to the movement for Equality

https://mcma.siu.edu/_common/documents/ig-documents/Sharing_Knowledge.pdf
Southern Illinois University Carbondale

CONFERNCES

- Texas ASLA Panelist
Shaping Future Landscape Architects
Fort Worth, Texas April 2023
- Texas ASLA Conference Panelist
A Journey through 165 years of TX
Galveston, TX April 2021
- Panel on Texas Winter Storm 2021 (moderator)
Race and Ethnic Studies Institute (R.E.S.I)
Iced Out: A discussion on Winter Storm Uri (The Freeze), racial disparity, place, and planning
*Texas A&M University
College Station, Texas* April 2021
- U.S. C3E Women in Clean Energy Symposium and Awards (moderator)
10th Annual Symposium: Justice and Equity in Clean Energy
Virtual Nov 2021

GUEST LECTURES

- Topic: Environmental Justice
Audience: LAND 101- Introduction to Landscape Architecture Practice
School of Architecture
Texas A&M University, College Station, Texas Feb. 2024
- Topic: Social Class; Race, Ethnicity, and Gender; Housing, Education, Crime
Audience: URPN 361 - Urban Issues
School of Architecture
Texas A&M University, College Station, Texas Oct. 2022
- Topic: Coastal Communities and Justice Roundtable
Melbern G. Glasscock Center for Humanities Research
College of Liberal Arts
Texas A&M University, College Station, Texas Oct. 2020
- Topic: Diversity and Public Policy Making
Audience: CARC 101- Cultural Discourse
Texas A&M University, College Station, Texas Oct. 2020
- Environmental Justice Workshop
Audience: Highschool Educators
Furr Highschool, Houston, Texas Nov. 2019

Topic: Overview of Environmental Justice Audience: URPN 493 Planning Capstone <i>Texas A&M University, College Station, Texas</i>	March 2019
Topic: Contemporary Issues in Environmental Justice Audience: Geography 470 <i>Southern Illinois University, Carbondale, Illinois</i>	April 2017
Topic: Investigating Public Participation in the Environmental Decision Making on Northeast Carbondale Audience: Mass Communication and Media Arts Department <i>Southern Illinois University, Carbondale, Illinois</i>	Nov. 2016
Topic: The Environmental Justice Movement over Time Audience: SIUC's HUB Pop-up session on Environmental Justice <i>Southern Illinois University, Carbondale, Illinois</i>	Oct. 2016
Topic: Contemporary Issues in Environmental Studies Audience: Geography 470 <i>Southern Illinois University, Carbondale, Illinois</i>	Oct. 2016
Topic: Environmental Justice and Public Participation Audience: SIUC English Department; Eco- Criticism <i>Southern Illinois University, Carbondale, Illinois</i>	Sep. 2016
Topic: Environmental Justice and Brownfield sites Audience: Geography 470 <i>Southern Illinois University, Carbondale, Illinois</i>	March 2016
Topic: Contemporary Issues in Environmental Studies Audience: Geography 470 <i>Southern Illinois University, Carbondale, Illinois</i>	Oct. 2015
Topic: Contemporary Issues in Environmental Studies Audience: Geography 470 <i>Southern Illinois University, Carbondale, Illinois</i>	April 2015
Topic: Women's Civic Institute Audience: American Association of University Women <i>Southern Illinois University, Carbondale, Illinois</i>	Dec. 2014
Topic: Environmental Justice in Carbondale, <i>Illinois</i> Audience: Sierra CLUB Shawnee, IL. Chapter <i>Carbondale, Illinois</i>	Nov. 2014

Topic: The Former Koppers Wood-Treating Site in Carbondale
Audience: SIUC Law School
Southern Illinois University, Carbondale, Illinois Oct .2014

Topic: Contemporary Issues in Environmental Studies
Audience: Geography 470
Southern Illinois University, Carbondale, Illinois Oct. 2014

Topic: Contemporary Issues in Environmental Studies
Audience: Geography 470
Southern Illinois University, Carbondale, Illinois April 2014

GRADUATE COMMITEES

Dallas Williams
College/Department: Sociology
Degree Seeking: Doctorate

Charlene M. Shroulote Duran
College/Department: Sociology
Degree seeking: Doctorate

Tanner Fuller
College/Department: Landscape Architecture and Urban Planning
Degree seeking: Master of Urban Planning (MUP)

Sarah Cumm
College/Department: Landscape Architecture and Urban Planning
Degree seeking: Master of Urban Planning (MUP)

Regina Alvares
Leading by Example: Expanding Sustainable Regulations in Universities
College/Department: Landscape Architecture and Urban Planning
Professional paper
Degree: Master of Urban Planning (MUP)

Keven Sandoval
Leading by Example: Expanding Sustainable Regulations in Universities
College/Department: Landscape Architecture and Urban Planning
Professional paper
Degree: Master of Urban Planning (MUP)

Tristen Fisher
Best Practices of Tactical Urbanism

College/Department: Landscape Architecture and Urban Planning
Professional paper
Degree: Master of Urban Planning (MUP)

Lianzheng Luo
College/Department: Landscape Architecture and Urban Planning
(E-portfolio)
Degree: Master of Land and Property Development Program

UNIVERSITY/COLLEGE SERVICE

Unit Diversity Leader Office of Diversity <i>Texas A&M University, College Station, Texas</i>	2002- present
LEEP Liaison (Planning committee member) Office of Diversity <i>Texas A&M University, College Station, Texas</i>	2022- present
PLAN- MUP Committee Department of Landscape Architecture & Urban Planning <i>Texas A&M University, College Station, Texas</i>	2019-present
Graduate Diversity Excellence Fellowship Reviewer Office of Graduate and Professional Studies <i>Texas A&M University, College Station, Texas</i>	2020-2021
Honor Council Member Aggie Honor System Office <i>Texas A&M University, College Station, Texas</i>	Fall 2019 (2-year term)
Diversity Council Member College of Architecture <i>Texas A&M University, College Station, Texas</i>	2019- present
Center for Service Learning and Volunteerism Advisory Council Graduate Mentor <i>Southern Illinois University, Carbondale, Illinois</i>	2016- 2017
Student organization Advisor Freshman Leaders Advancing in Service and Honor (FLASH) Department of Student Activities (StuAct) <i>Texas A&M University, College Station, Texas</i>	2019- Present

Women's Civic Institute Interview Panel 2014 & 2016
Interview Panelist
Southern Illinois University, Carbondale, Illinois

Environmental Resources & Policy Seminar Committee 2014-2015
Student led committee which nominates and selects local, regional, and world-wide speakers in academia and industry to present information about their research and/or relevant topic to ER&P students.

Imagining Geographies Advisory Board 2014-2015
Imagining Geographies is a multi-year, SIU College of Mass Communication and Media Arts-led, university and region-wide initiative, advancing discussion of public issues related to the quality of life for all living beings in our civic spaces.
Southern Illinois University, Carbondale, Illinois

Sustainability Commission, Carbondale, Illinois 2014-2015
Give collaborated advice to Carbondale's City Council regarding renewable energy sources, energy conservation, green transportation and other environmental issues.
Southern Illinois University, Carbondale, Illinois

CONFERENCES/ PRESENTATIONS

Center for Undergraduate Research and Creative Activities (CURCA) Apr. 2016
Graduate Student Forum Southern Illinois University Carbondale
Investigating Public Participation in the Environmental Decision-Making Process in Northeast Carbondale, Illinois.
Carbondale, Illinois

105th American Society for Horticultural Science Annual Conference Jul. 2008
Effects of Salt Stress on Stem and Leaf Tissue in Sweet Potato [Ipomoea Batatus L.]
Orlando, Florida

COMMUNITY SERVICE

School Board Trustee Nov. 2020
Bryan Independent School District (Bryan, Texas)
Elected in the 2020 General elections to serve as a BISD Trustee overseeing district policies, budgets, and monitoring maintaining the districts goal and vision.

HONORS & PROFESSIONAL MEMBERSHIPS

International Geographical Honor Society, Member

Women's Civic Institute, Member (SIUC)

NSF *Honorable Mention* Graduate Research Fellowship Program

Tri-Beta Organization (Biological Studies)

NSF Louis Stokes Illinois Alliance for Minority Participation (LSAMP) Scholar

FELLOWSHIPS

DFI- Scholarship 2009-2010
Diversifying Faculty in Illinois Higher Education Program

NSF (IL-LSAMP) 2007-2008
Illinois Louis Stokes Illinois Alliance for Minority Participation

INTERNSHIPS/VOLUNTEER EXPERIENCE

Bryan Independent School District Trustee Nov.2020
Bryan, Texas
Elected: 3-year term

Women's Civic Institute (SIU), mentor/leader 2015- 2017
Southern Illinois University

Sustainability Commissioner 2014-2015
Mayoral appointment
City of Carbondale

Illinois Environmental Protection Agency 2014
Governor's Environmental Corps
Carbondale, IL.

Shedd Aquarium 2009
Division: Water Quality Laboratory
Chicago, IL

CERTIFICATIONS

Class A & Class B UST Facility Operator 2018

Hazardous Material Emergency Response Technician 2018