

Aidan Ackerman

Assistant Professor of Landscape Architecture
SUNY College of Environmental Science and Forestry
Syracuse, NY 13210

Phone: 315.585.0231
Email: acackerm@esf.edu
aidanackerman.com

Education

- | | |
|------|---|
| 2011 | Master of Landscape Architecture
Harvard University Graduate School of Design, Cambridge, MA |
| 2002 | Bachelor of Fine Arts <i>cum laude</i>
New York State College of Ceramics, Alfred University, Alfred, NY |

Professional Appointments

- | | |
|------------|---|
| 2018-pres. | Assistant Professor of Landscape Architecture
SUNY College of Environmental Science and Forestry, Syracuse, NY |
| 2014-2018 | Director of Digital Media & Landscape Architecture Faculty
Boston Architectural College, Boston, MA |
| 2012-2014 | Adjunct Faculty, Digital Media & Landscape Architecture
Boston Architectural College, Boston, MA |

Courses Taught

* indicates co-taught course

Fall 2023 SUNY College of Environmental Science and Forestry

- | | |
|---------|---|
| LSA 500 | Digital Methods & Graphics I |
| LSA 326 | Landscape Architecture Design Studio I* |

2022-2023 SUNY College of Environmental Science and Forestry

- | | |
|-------------|---|
| LSA 300/500 | Digital Methods & Graphics I |
| LSA 301/501 | Digital Methods & Graphics II |
| LSA 326 | Landscape Architecture Design Studio I* |
| LSA 423/625 | Landscape Architectural Design Studio IV/ Construction Documentation Studio |
| LSA 798 | Research Problem |

2021-2022 SUNY College of Environmental Science and Forestry

- | | |
|-------------|---|
| LSA 300/500 | Digital Methods & Graphics I |
| LSA 301/501 | Digital Methods & Graphics II |
| LSA 423/625 | Landscape Architectural Design Studio IV/ Construction Documentation Studio |

LSA 458/459/460	Off-Campus Study
LSA 496/696	Parametric Modeling and Computational Landscape Design
LSA 798	Research Problem

2020-2021 SUNY College of Environmental Science and Forestry

LSA 300/500	Digital Methods & Graphics I
LSA 301/501	Digital Methods & Graphics II
LSA 326	Landscape Architecture Design Studio I*
LSA 696	Virtual Environments*
LSA 798	Research Problem

2019-2020 SUNY College of Environmental Science and Forestry

LSA 300/500	Digital Methods & Graphics I
LSA 301/501	Digital Methods & Graphics II
LSA 326	Landscape Architecture Design Studio I*
LSA 496/696	Digital Fabrication
LSA 798	Research Problem

2018-2019 SUNY College of Environmental Science and Forestry

LSA 300/500	Digital Methods & Graphics I
LSA 326	Landscape Architecture Design Studio I*
LSA 496/696	Modeling and Representing Landscape Processes

2012-2018 Boston Architectural College

Design Studio

LAN 2001	Ecological Analysis & Conceptual Frameworks (2012-2018)
LAN 2003	Housing and Institutional Planning (2012-2013)*
LAN 3005	Social Urbanism Travel Studio, Medellín, Colombia (2017)*

Digital Media

DME 2000	Architecture Representation: Spatial Thinking (2015)
DME 2017	Information Graphics, Diagramming & Publishing (2014-2015)
DME2021	Narrative Space - Storytelling Through Digital Media (2015-2017)
DME 2073	Visual Communication (2016-2018)
FND 3010	Making & Modeling (2014-2015)
FND 3033	Visual Thinking (2013-2014)

Publications

* indicates ESF graduate student advisee co-author

All works are published unless otherwise indicated

Peer-Reviewed Journal Articles

- 2023 Huang H, Tian Y, Wei M, Jia X, Wang P, **Ackerman A** Chatterjee S, Liu Y, & Tian G. (2023). A Theoretical Nonlinear Regression Model of Rainfall Surface Flow Accumulation and Basin Features in Park-Scale Urban Green Spaces Based on LiDAR Data. *Water*, 15(13), 2442. Impact factor: 3.4
- 2023 **Ackerman A**, Foulds F, Page B, Auwaerter J, Robinson E (2023). Cultural Landscape Visualization: The Use of Non-Photorealistic 3D Rendering and Digital Repeat Photography at Statue of Liberty National Monument. *Journal of Cultural Heritage*, 62, 396-403. Impact factor: 3.229
- 2023 **Ackerman A**, Koudelka*, C., Hirsch, P., & Zaengle, O. (2023). Problematizing Realism: Confronting Colonial Perspectives and Engaging Complexities of Landscape Through “Ghost Textures”. *PRESENCE: Virtual and Augmented Reality*, 85-98. Impact factor: 1.750
- 2023 **Ackerman A**, Tien G, Liu Y (2023). LiDAR-Based Digital Modeling and Comparative Analysis of Urban Street Tree Form and Dimensions. *Journal of Digital Landscape Architecture*: 476-485. Impact factor: 0.52
- 2022 Zhang X, Lei Y, Li R, **Ackerman A**, Guo N, Li Y, Liu Y. (2022). Research on Thermal Comfort of Underside of Street Tree Based on LiDAR Point Cloud Model. *Forests*, 13(7), 1086. Impact factor: 3.282
- 2022 **Ackerman A**, Cooper L, Volk T, Malmshiemer B, Esch E, Gadoth-Goodman D, & Constantineau S. (2022). Virtual Reality Visualization of Sustainable Management Practices for Forest Carbon and Climate Change. *Journal of Digital Landscape Architecture*: 392-401. Impact factor: 0.52
- 2022 Lin CY*, **Ackerman A**, Beier C, & Johnston D (2022). Digital Terrain Editing and Virtual Reality Visualization to Communicate Snow Coverage and Depth Change Related to Thermal Impacts. *Journal of Digital Landscape Architecture*: 95-104. Impact factor: 0.52
- 2022 Mahoney M*, Beier C. M., & **Ackerman A. C.** (2022). terrainr: An R package for creating immersive virtual environments. *Journal of Open Source Software*, 7(69), 4060. Impact factor: 5.20.
- 2021 **Ackerman A**, Crespo A*, Auwaerter J, & Foulds E. (2021). Using Tree Modeling Applications and Game Design Software to Simulate Tree Growth, Mortality, and Community Interaction. *Journal of Digital Landscape Architecture*, 163-170. Impact

factor: 0.52

- 2021 Ramyar R*, **Ackerman, A**, & Johnston D. M. (2021). Adapting cities for climate change through urban green infrastructure planning. *Cities*, 117, 103316. Impact factor: 6.077
- 2020 **Ackerman A** (2020). Where Have We Come From, and Where Are We Headed? A Comparative Review of Themes in CAD and BIM/LIM Adoption. *Journal of Chinese Landscape Architecture*, 1000-6664. (invited paper)
- 2020 **Ackerman A**, Wang Y, Bryant M (2020). Animation of High Wind-Speed Coastal Storm Events with Computational Fluid Dynamics: Digital Simulation of Protective Barrier Dunes. *Journal of Digital Landscape Architecture*: 498-509. Impact factor: 0.52
- 2019 **Ackerman A**, Cave J, Lin CY, Stillwell K. (2019). Computational Modeling for Climate Change: Simulating and Visualizing a Resilient Landscape Architecture Design Approach. *International Journal of Architectural Computing* 17: 125-147. (invited paper) Impact factor: 1.04
- 2019 **Ackerman A**, Cave J, Stillwell K. (2019). Computation and Visualization of Coastal Sea Level Rise Mitigation Strategies: Digital Applications of Scientific Data to Formulate Design Workflows for Climate Change. *Journal of Digital Landscape Architecture*, 4: 10-20. Impact factor: 0.52
- 2017 **Ackerman A**, Glekas E (2017). Digital Capture and Fabrication Tools for Interpretation of Historic Sites. *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences* 107-114. Impact factor: 1.34.
- 2015 Hammer S, **A Ackerman** (2015). Progress and Pitfalls in Community Mapping: Behaviors, Cognitions, and New Directions. *Cities People Places : An International Journal on Urban Environments*, 1: 19-31.
- 2015 **Ackerman A**, Lundell Garver B (2015). Social Media as a Visualization Tool: Mapping the Urban Landscape. *Landscape Research Record Vol. 4*, pp.2-9.

Other Peer-Reviewed Publications (Articles in Proceedings, Project Reports, etc)

- 2023 (under review) **Ackerman A**, Cooper L, Esch E, Gadoth-Goodman D, Constantineau S*, Malmsheimer R, & Volk T. Virtual Forests as a Creative Medium for Community Co-Creation and Collaboration. *Ground Works: Creating Knowledge in Common*.
- 2022 Lin CY*, **Ackerman A**, Johnston D, Tian G, & Liu Y. (2022). LiDAR Operation and Digital Modeling Visualization to Communicate Stormwater Management at Green Spaces in Developing Regions. In *Workshop on Visualisation in*

Environmental Sciences (EnvirVis). The Eurographics Association.

- 2019 **Ackerman A.** Paving the Way for Building Information Modeling (BIM) Adoption in Landscape Architecture: A Practice-Based Study. *CELA 2019 Conference Proceedings*.
- 2019 **Ackerman A**, Hoffman R, King M, Keefe M* (2019). "Block Island Wind Farm." *Landscape Performance Series*. Landscape Architecture Foundation.
- 2019 **Ackerman A**, Hoffman R, King M, Keefe M* (2019). "Hardscrabble Wind Power Project." *Landscape Performance Series*. Landscape Architecture Foundation.
- 2018 **Ackerman A**, Cave J (2018). Modeling Coastal Sedimentation and Erosion for Design Applications Within the Fields of Landscape Architecture and Architecture. In: Gobster, Paul H.; Smardon, Richard C., eds. 2018. *Visual Resource Stewardship Conference Proceedings: Landscape and Seascape Management in a Time of Change*: 262-269. Gen. Tech. Rep. NRS-P-183. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station.
- 2018 Tang H. and **Ackerman A.** Beijing and Boston: A Comparative Study of Urban Landscape Evolution and Transformation from 1998 to 2018. *CELA 2018 Conference Proceedings*.
- 2017 **Ackerman A** and Cave J. Modeling Coastal Sedimentation and Erosion for Design Applications within the Field of Landscape Architecture and Architecture. *VRSC 2017 Conference Proceedings*.
- 2015 **Ackerman A** and Bellalta M. (2015). Analysis to Site Design: Landscape Performance and the Design Studio. *CELA 2015 Conference Proceedings*.
- 2015 **Ackerman A** and Lundell Garver B. Social Media as a Visualization Tool: Mapping the Urban Landscape. *CELA 2015 Conference Proceedings*.
- 2013 **Ackerman A**, Bellalta M, & McGonagle J (2013). Watch Factory, Phases 1 and 2. *Landscape Performance Series*. Landscape Architecture Foundation.
- 2013 **Ackerman A**, Bellalta M, & McGonagle J (2013). Erie Street Plaza. *Landscape Performance Series*. Landscape Architecture Foundation.

Peer-Reviewed Abstracts

- 2023 **Ackerman A.** Experimenting with BIM in Landscape Architecture Construction Documentation Studio. *Align | Realign Conference Proceedings: Abstracts of Presented Papers, CELA 2023*. The Council of Educators in Landscape Architecture.

- 2022 Mahoney M*, Beier C, & **Ackerman, A.** (2021, October). Producing Interactive 3D landscape visualizations in Unity Using the terrainr R Package. Visual Resource Stewardship Conference: Proceedings 2021.
- 2021 **Ackerman A.** *Digital Workflows to Compare Turbine Height and Contrast Between Visual Impact Simulations and Post-Construction Photographs.* Visual Resource Stewardship Conference: Proceedings 2021.
- 2019 **Ackerman A,** Keefe M, Hoffman R, King M. 2019 *Case Study Investigation: A Landscape Performance Post-Occupancy Review of Two Wind Farms.* Visual Resource Stewardship Conference: Proceedings 2019.
- 2016 **Ackerman A.** Coded Landscape: Programming Natural Phenomena. *Dilemma/Debate Conference Proceedings: Abstracts of Presented Papers, CELA 2016.* The Council of Educators in Landscape Architecture.

Non-Peer-Reviewed Publications

- 2023 **Ackerman A** & Hoffman R. "Between the Rendered and The Real: Photography as a Comparative Analysis Tool." In *Active Landscape Photography: Diverse Practices*, by Godfrey, A. Routledge, 2023.
- 2023 **Ackerman A.** "Disrupted Digital Futures: The Rise of Speculative Digital Landscape Simulation in Conceptual Design." In *Conceptual Landscapes: Fundamentals in the Beginning Design Process*, by Bussiere, S. London: Routledge, 2023.
- 2023 **Ackerman A.** "Double Vision." *Landscape Architecture Magazine*, August 2023.
- 2022 **Ackerman A.** "I is for Information." *Landscape Architecture Magazine*, January 2022: 34-44. Print.
- 2021 **Ackerman A.** "Small Firm, Big Leap." *Landscape Architecture Magazine*, July 2021: 68-79. Print.
- 2019 **Ackerman A.** "Bona Fide BIM." *Landscape Architecture Magazine*, December 2019:36-44. Print.
- 2019 **Ackerman A.** "The BIM That Binds." *Landscape Architecture Magazine*, June 2019: 50-60. Print.

Presentations

* indicates ESF graduate student advisee co-presenter

- 2023 **Ackerman A.** Immersive Ecologies: Exploring Virtual Forests and their Impact on

- Environmental Stewardship. Dale L. Travis Lecture Series, SUNY College of Environmental Science and Forestry, Syracuse NY, September 14. *Invited presentation*
- 2023 **Ackerman A**, Gadoth-Goodman D, Constantineau S. An Immersive Virtual Reality Forest Carbon Experience. TED Countdown Summit, Detroit MI, July 13. *Invited presentation*
- 2023 **Ackerman A**, Tien G, Liu Y. LiDAR-Based Digital Modeling and Comparative Analysis of Urban Street Tree Form and Dimensions. Digital Landscape Architecture Conference, The Bauhaus, Dessau, Germany, May 25. *Proposed and accepted presentation*
- 2023 **Ackerman A**. Experimenting with BIM in Landscape Architecture Construction Documentation Studio. The Council of Educators in Landscape Architecture, San Antonio, TX, March 16, 2023. *Proposed and accepted presentation*
- 2023 **Ackerman A**, Constantineau S, Gadoth-Goodman D, Esch E. A Collaborative Partnership for Visualizing Sustainable Forest Management to Mitigate Climate Change in the Great Lakes Region. Great Lakes Region Climate Action Seminar, February 9. *Proposed and accepted presentation*
- 2023 **Ackerman A**. A World Within: An Immersive Performance of Algorithmic Forests. Harry der Boghosian Fellowship Symposium, Syracuse University, Syracuse, NY, March 28. *Invited presentation*
- 2022 **Ackerman A**. Forest Ecosystem Monitoring Cooperative Conference – Advances in Forest Science: The Role of Innovation and Technology in Stewardship and Engagement. University of Vermont, Burlington, VT, December 15. *Invited panelist*
- 2022 **Ackerman A**, Foulds E, Mealey J. Digital Visualization of Cultural Landscapes for Interpretation, Management, and Collaboration. American Society of Landscape Architects Conference on Landscape Architecture, San Francisco, CA, November 12. *Invited presentation*
- 2022 **Ackerman A**, Cooper L, Volk T, Malmsheimer B, Esch E, Gadoth-Goodman D, Constantineau S. Virtual Reality Visualization of Sustainable Management Practices for Forest Carbon and Climate Change. Digital Landscape Architecture Conference, Harvard Graduate School of Design, Cambridge, MA, June 9. *Proposed and accepted presentation*
- 2022 **Ackerman A**. Virtual Reality Forest Presentation. 1t.org U.S. Chapter Summit, Washington DC, June 23. *Invited presentation*
- 2022 **Ackerman A**. The Immersive Virtual Forest. Arboreal Inquiries Symposium:

Recent Explorations in Forests + Design, The Great Lakes Design Labs, March 31.
Invited presentation

- 2021 **Ackerman A.** Research on Tree Growth Modeling. In the Context of the 'One Belt, One Road' Strategy- Summit Forum on Sustainable Development of Human Settlements and Carbon Neutrality, Henan Agricultural University, Zhengzhou, China, November 14. *Invited presentation*
- 2021 **Ackerman A.** Digital Workflows to Compare Turbine Height and Contrast Between Visual Impact Simulations and Post-Construction Photographs. Visual Resources Stewardship Conference, SUNY College of Environmental Science and Forestry, Syracuse, NY, October 22. *Proposed and accepted presentation*
- 2021 **Ackerman A,** Crespo A*, Auwaerter J, Foulds E. Using Tree Modeling Applications and Game Design Software to Simulate Tree Growth, Mortality, and Community Interaction. Digital Landscape Architecture Conference, Anhalt University, Dessau-Köthen-Bernburg, Germany, May 27. *Proposed and accepted presentation*
- 2020 **Ackerman A,** Tiburzi A, Keefe M, Robinson R. Rendering History: Digital Modeling and Visualization of Heritage Landscapes – Statue of Liberty National Monument. New York Statewide Preservation Conference, Landmark Society, Rochester NY, December 2. *Proposed and accepted presentation*
- 2020 **Ackerman A.** Challenges of Adopting BIM in the United States Design Firm, Landscape Architecture Construction International Online Conference, Department of Landscape Architecture/School of Architecture, Tsinghua University, December 12, Beijing, China, November 27. *Invited presentation*
- 2020 **Ackerman A,** Wang Y. Animation of High Wind-Speed Coastal Storm Events with Computational Fluid Dynamics. Digital Landscape Architecture Conference, Harvard Graduate School of Design, Cambridge, MA, June 3. *Proposed and accepted presentation*
- 2020 **Ackerman A,** Beier C. Digital Storytelling for Climate Adaptive Forest Landscape Management: Computational Modeling and Visualization of Tree Growth In Experimental Forest Sites. IALE-North America Annual Meeting, Toronto, Ontario, May 13. *Proposed and accepted presentation*
- 2019 **Ackerman A,** Keefe M. Case Study Investigation: A Landscape Performance Post Occupancy Review of Two Wind Farms. Visual Resources Stewardship Conference, Argonne National Laboratory, Lemont, IL, October 29. *Proposed and accepted presentation*
- 2019 **Ackerman A.** Computation and Visualization of Coastal Sea Level Rise Mitigation Strategies: Digital Applications of Scientific Data to Formulate Design

Workflows for Climate Change. Digital Landscape Architecture Conference, The Bauhaus, Dessau, Germany, May 23. *Proposed and accepted presentation*

- 2019 **Ackerman A.** Paving the Way for Building Information Modeling (BIM) Adoption in Landscape Architecture: A Practice-Based Study. Engaged Scholarship: Council of Educators in Landscape Architecture Conference, University of California, Davis, CA, March 8. *Proposed and accepted presentation*
- 2019 Zhou P, **Ackerman A**, Schmidt L. Zero to One: Open Your Practice to the World of BIM. American Society of Landscape Architects Conference on Landscape Architecture, San Diego, CA, November 17. *Invited presentation*
- 2019 **Ackerman A.** Case Study Investigation Series Presentation, The Landscape Architecture Foundation, Washington DC, August 5. *Invited presentation*
- 2018 **Ackerman A.** UNITE Maker Nation: Education to Industry, Boston Design Museum, February 22, Boston, MA. *Plenary panelist*
- 2018 **Ackerman A.** Natural/Digital. Midday Talks Lecture Series, John H. Daniels Faculty of Architecture, Landscape, and Design. University of Toronto, Toronto, Ontario, February 2. *Invited presentation*
- 2017 **Ackerman A**, Cave J*. Modeling Coastal Sedimentation and Erosion for Design Applications within the Field of Landscape Architecture and Architecture. Visual Resources Stewardship Conference, Argonne National Laboratory, Lemont, IL, November 8. *Proposed and accepted presentation*
- 2017 **Ackerman A**, Glekas E. Digital Capture and Fabrication Tools for Interpretation of Historic Sites. 26th International CIPA Symposium: Digital Workflows for Heritage Conservation, Carleton College, Ottawa, Ontario, August 30. *Proposed and accepted presentation*
- 2016 **Ackerman A.** Coded Landscape: Programming Natural Phenomena. Dilemma/Debate: Council of Educators in Landscape Architecture, Utah State University, Logan, Utah, March 24. *Proposed and accepted presentation*
- 2015 **Ackerman A**, Lundell Garver B. Incite Social Media as a Visualization Tool: Mapping the Urban Landscape. Change/Change Insight: Council of Educators in Landscape Architecture Conference, Kansas State University, Manhattan, Kansas, March 27. *Proposed and accepted presentation*
- 2015 **Ackerman A.** Analysis to Site Design: Landscape Performance and the Design Studio. Incite Change/Change Insight: Council of Educators in Landscape Architecture Conference, Kansas State University, Manhattan, Kansas, March 26. *Proposed and accepted presentation*

Invited Course or Departmental Presentation Outside Home Institution

- 2023 Guest speaker in ARC500 Professional Elective, Syracuse University School of Architecture, Syracuse NY, April 17.
- 2019- Guest speaker in LAN1038 Plants and Design II, John H. Daniels Faculty of
2023 Architecture, Landscape, and Design. University of Toronto, Toronto, Ontario.
- 2019 Landscape Planting Modeling and Visualization Department Presentation and Discussion Session. John H. Daniels Faculty of Architecture, Landscape, and Design, University of Toronto, Toronto, Ontario, November 25.
- 2019 Guest speaker in LAN3025 Advanced Computing in Landscape Architecture, John H. Daniels Faculty of Architecture, Landscape, and Design. University of Toronto, Toronto, Ontario, October 18.
- 2018- Guest speaker in LAN1037 Plants and Design I, John H. Daniels Faculty of
2022 Architecture, Landscape, and Design. University of Toronto, Toronto, Ontario.

Funded Research

- 2023-2028 Volk T (PI), **Ackerman A**, Beier C, Brown T, Crovella P, Kumar D, Malmsheimer R, Therasme O, Vander Yacht A. *NYS Connects: Climate Smart Farms and Forests*. USDA Natural Resources Conservation Service (NRCS), \$5,134,854.
- 2023-2024 Stella J (PI), **Ackerman A**, King M, Mirowsky J. *Assessing Forests and Their Benefits*, USDA Forest Service, \$9,000.
- 2023 **Ackerman A (PI)**. *Virtual Reality Forest Experience*. TED Conferences, LLC, \$4,500.
- 2023 **Ackerman A (PI)**, Malmsheimer R, Volk T. *Datacenter Community Development Urban Forest Tree Visualization*, Subaward from Michigan State University, Microsoft Corporation. \$3,000 of \$9,000 total funding.
- 2023 **Ackerman A (PI)**, Cronan D. *Virtual Reality at Upward Ground Summit*. American Forests, \$5,000.
- 2023 Wang E (PI), **Ackerman A**. *Integrating 3D printing With Virtual Reality to Enhance Communication of Engineering and Design*, Engineering Information Foundation \$19,699.
- 2022-2027 **Ackerman A, (PI)**, Malmsheimer R, Volk T. *Roots of EAB Recovery: Detroit, Michigan's Tree Equity Partnership*. Subaward from Michigan State

University/ American Forests. Association of State Foresters, USDA Forest Service. Subaward \$22,000 of \$485,000 total funding.

- 2022-2024 Auwaerter J (PI), **Ackerman A.** *Region One Cultural Landscape Inventory, Technical Assistance, and Training*, The Olmsted Center for Landscape Preservation & The U.S. National Park Service, \$108,000
- 2022-2023 Stella J (PI), **Ackerman A**, King M, Mirowsky J. *Assessing Forests and Their Benefits*, USDA Forest Service, \$17,000.
- 2022 **Ackerman A**, Bryant M, Hogge T, Storrings D. *Academic Technology Grant*, SUNY College of Environmental Science and Forestry, \$19,087
- 2021-2023 **Ackerman A (PI).** *A Digital Tree Growth Modeling and Visualization Toolkit for Historic Landscape Representation*. National Center for Preservation Technology & Training & The U.S National Park Service, \$18,455.
- 2021-2023 Auwaerter J (PI), **Ackerman A.** *Support NPS Region One Cultural Landscape Inventory, Technical Assistance, and Training*, The Olmsted Center for Landscape Preservation & The U.S. National Park Service, \$130,000
- 2020-2023 Auwaerter J (PI), **Ackerman A.** *Complete Cultural Landscape Treatment and Maintenance Plan for Flight 93 National Memorial Landscape*, The Olmsted Center for Landscape Preservation & The U.S. National Park Service, \$80,000.
- 2019-2022 Beier C (PI), **Ackerman A**, Drake J, Brown T, Germain R, Johnston D, King M, Malmsheimer R, Volk T. *Pathways to a Net-Zero Carbon Future: Landscape Design for Sustainable Energy and Climate Change Mitigation*. SUNY ESF Discovery Challenge, \$160,000.
- 2019-2021 Auwaerter J (PI), **Ackerman A**, Curry G. *Provide Landscape Preservation Training and Technical Assistance*, The Olmsted Center for Landscape Preservation & The U.S. National Park Service, \$97,575
- 2019 **Ackerman A (PI)**, Hoffman R, King M. *Case Study Investigation*, The Landscape Architecture Foundation, \$11,000.
- 2017 **Ackerman A (PI)**, Atwood P. *Student-Defined Curriculum and a Competency-Based Approach to Learning*, Boston Architectural College, Boston, MA, \$3,000.
- 2014 **Ackerman A (PI)**, Bellalta M. *Landscape Performance Education Grant*, The Landscape Architecture Foundation, \$5,000.

2013 **Ackerman A (PI)**, Bellalta M. *Case Study Investigation, The Landscape Architecture Foundation*, \$11,000.

Department, College, and University Service

Student Advising

PhD Students (Co-Major Professor)

2023 Hadi Aboulfazi
2022-2023 Geri Mae Tolentino
2021-2023 Christopher Koudelka
2020-2023 Chien-Yu Lin
2020-2023 Michael Mahoney
2020-2022 Reza Ramyar

Ph.D. Students (Dissertation Committee)

2020-2023 Yao Wang

MLA Students (Major Professor)

2023 Martin Benzinger
2022-2023 Arleen Bartels
2022-2023 Tanner Laramée
2020-2021 Ashley Crespo
2019-2020 R. Connor Neville

MLA Students (Capstone Committee)

2022-2023 Sara Constantineau
2021-2022 Laura Seib
2021-2022 Elise Robinson
2019-2020 Kimberly Koriath
2019-2020 Caroline Horgan
2018-2019 Chad Grevelding

MLA Students (Internship)

2023-2024 Diane Ballard

BLA Student Advising

2019-2022: 9 students per year
2022-2023: 3 students per year
2023-2024: 4 students per year

Service to The Department of Landscape Architecture

2022-2023 Sigma Lambda Alpha Nu Chapter Faculty Representative

2023 Landscape Architecture Faculty Search Committee (3 positions)

2022-2023	Departmental Strategic Plan Working Group Co-Facilitator
2022	Urban Sustainability Cluster Hire Search Committee (1 position)
2022	Administrative Assistant Search Committee
2020	Landscape Architecture Faculty Search Committee (1 position)
2020	Open Academy Online Education Peer Mentor
2019	Faculty Research Brown Bag Lecture Series Development
2018-2023	Department Technology Committee
2018-2023	BLA Curriculum Committee

Service to The College at Large

2023	Delivery of Summer Course for High School Students: LSA 300 Environmental Graphic Design (3 credits)
2022	Interview for ESF Campus Conversations Podcast: Virtual Forest Modeling with Dr. Colin Beier
2022-2023	Student Mentor, Louis Stokes Alliances for Minority Participation
2022	Delivery of Digital Methods and Graphics II via MOOC, Henan Agricultural University
2022	Capstone Examination Committee Chair, Rachael Renzi
2018-2021	Technology & Facilities Committee
2020-2021	Research Committee
2021	Orientation Field Days Session: Virtual Reality and The Digital Forest, SUNY College of Environmental Science & Forestry
2021	Doctoral Candidacy Examination Committee Chair, Asif Mehmood
2020	Dissertation Examination Committee Chair, Michelle Viera
2019-2023	Landscape Visualization Studio Co-Management
2019	Capstone Examination Committee Chair, Sunghoon Hong
2018-2023	Digital Fabrication Lab & Rendering Lab Management
2019	Construction Management Faculty Search Committee (2 positions)
2019	Virtual Reality Open House
2019	Digital Fabrication Lab Campus Open House
2019	ESFHS High School Student Campus Visit presentation
2019	3D Modeling Tutorial, Landscape Club
2019	Portfolio Development Tutorial, Landscape Club
2019	Competition Team Organizer & Faculty Advisor: Reimagining the DL&W Corridor International Ideas Competition
2019	Orientation Field Days Session: Digital Environmental Capture and

Simulation with Virtual Reality

Professional and Public Service

- 2023 Virtual Reality Forest Experience Demonstration, Ed Smith Elementary School STEAM Nite, Syracuse City School District
- 2022 Mentor to first time conference attendees, American Society of Landscape Architects Conference on Landscape Architecture
- 2022 Summer Student Scholar Mentor, Mid-Atlantic Sustainable Biomass for Value-Added Products Consortium (MASBIO)
- 2022 Landscape Architecture Presentation, Environmental Career Webinar, The Linda Zhang Foundation For the Environment
- 2021 Forest Visualization Demonstration and Focus Group Discussion, Cornell Cooperative Extension
- 2019 3D Software Introduction/Mini Lesson With Designing the Parks Interns, The National Parks Service
- 2019 Career Chat With Designing the Parks Interns, The National Parks Service
- 2019 CNC topographic watershed model development, Science Summer Camp, Milton J. Rubenstein Museum of Science & Technology

Manuscript Reviews

- 2023 Computer-Aided Design and Applications, ISSN 1686-4360 (1 review)
- 2023 Landscape Research Record, ISBN 978-0-9853013-2-3 (1 review)
- 2019-2023 Journal of Digital Landscape Architecture, ISSN 2511-624X (16 reviews)
- 2022 Journal of the Royal Society Interface, ISSN 1742-5689 (1 review)
- 2022 CLEAN – Soil, Air, Water, ISSN 1863-0669 (3 reviews)
- 2019 International Journal of Architectural Computing, ISSN 1478-0771 (1 review)
- 2019 Urban Planning, ISSN 2183-7635 (1 review)
- 2019 Habitat International, ISSN 0197-3975 (1 review)
- 2016-2017, 2023 Landscape Research Record, ISBN 978-0-9853013-2-3 (3 reviews)

Professional Society Offices Held

- 2022-2023 American Society of Landscape Architects Digital Technology Professional Practice Network Leadership Team

Administrative Service

- 2020-2023 BLA Program Undergraduate Coordinator

Guest Critiques Outside of Home Institution, Residencies, and Other Teaching

2022	Cornell Department of Landscape Architecture, MLA Studio I
2022	Cornell Department of Landscape Architecture, ASLA Honor & Merit Awards
2021	University of Toronto, Daniels Faculty of Architecture, Landscape, and Design Master of Landscape Architecture Thesis Reviews
2021	Boston Architectural College XDS1000: Interdisciplinary Design Studio: Lyceum Fellowship Competition
2021	Boston Architectural College LAN2001 Ecological Analysis & Conceptual Frameworks Studio
2020	University of Toronto, Daniels Faculty of Architecture, Landscape, and Design Master of Landscape Architecture Thesis Reviews
2020	Philadelphia University + Thomas Jefferson University, College of Architecture and the Built Environment ARCH 401-1 D7 Design for Architecture
2019	Cornell Department of Landscape Architecture, LARCH 5020 Studio Composition & Theory
2019	University of Toronto, Daniels Faculty of Architecture, Landscape, and Design, LAN1036H Contemporary Use of Plants in Landscape Design
2017-2018	Fabrication Incubator Resident, Autodesk BUILD Space, Boston MA
2011-2014	Design Instructor, ArtScience Labs, Boston, MA
2010-2011	Teaching Fellow Harvard University Graduate School of Design, Cambridge, MA

Projects, Competitions, & Exhibitions

2018	Reimagining the DL&W Corridor International Ideas Competition
2017	BOS/MEX + MEX/BOS A Causa Del Agua/Because of Water: An Exhibit of Work From The BAC and Centro Metropolitano de Arquitectura Sustentable
2016	Beyond Convention: Expanding the Architectural Graphic
2014	Harvard Allston Master Plan Renderings, Allston, MA: Reed Hilderbrand Landscape Architects
2013	30 Light Street Design Competition, Baltimore, MD: Finalist with Janet Echelman Studio

2012 Prix Ars Electronica/The Next Idea Linz, Austria: Tracing the Digital/Physical: A Foray Into Hybrid Geographies

Professional Experience

2011-2018 EarthVision 3D Modeling and Rendering Studio, Boston, MA
2010-2011 Staff, Research Computing Environment, The Harvard/MIT Data Center at the Institute for Quantitative Social Science, Cambridge, MA
2003-2008 Senior Systems Administrator, Eaton & Associates, San Francisco, CA
2002-2003 Computer Technician, Yes Computers, Northampton MA

Professional Associations & Honor Societies

American Society of Landscape Architects (ASLA)
Association for Computer Aided Design in Architecture (ACADIA)
Sigma Lambda Alpha

Awards and Honors

2021 Article Award for Scientific Excellence
 Journal of Digital Landscape Architecture
2019 CSI Research Fellow
 The Landscape Architecture Foundation
2015 People's Choice Award
 Boston Living With Water Competition
2013 CSI Research Fellow
 The Landscape Architecture Foundation
2010 Penny White Traveling Fellowship
 Harvard University Graduate School of Design