

## EDUCATION

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### Degrees

#### University of Michigan, Taubman College of Architecture and Urban Planning

PhD Student, Urban and Regional Planning, anticipated 2023

Advisor: Richard Norton

Specialization: Environmental Planning & Policy (Primary), Climate Change Adaptation (Secondary)

#### Rochester Institute of Technology, College of Engineering Technology

BS/MS, Environmental Sustainability, Health and Safety & Environmental, Health and Safety Management, 2019

Concentration: Sustainable Development and Community Resilience

GPA: 3.95/4.00 (BS), 4.00/4.00 (MS)

### Certificates

2017. 40-hour OSHA Hazardous Waste Operator training, College of Engineering Technology, Rochester Institute of Technology.

2016. Lean Six Sigma Yellow Belt, Center for Quality and Applied Statistics, Rochester Institute of Technology.

## PUBLICATIONS

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### Peer-Reviewed Journal Articles

2018. S. Dobie, J. Schneider, M. Kesgin, & R. Lagewiski, "Hotels as critical hubs for destination resilience: an analysis of hotel corporations' CSR activities supporting disaster relief and resilience," *Infrastructures Special Issue on Resilient Infrastructure Systems*.

2018. J. Schneider, J. Hummel, J. Rosenbeck, & S. Dobie, "Community resilience management: reflections and strategies from corporate sustainability," *Journal of Environmental Sustainability*, 6(1): 15-36.

2018. D. Hess, S. Dobie, M. McGuinness Jr, L. Rodbourn, A. Ball, "Management system maturity: an indicator of sustainable production and EHS&S goal attainment," *EM Air and Waste Management Magazine Environmental Managers*.

### Peer-Reviewed Conference Publications

2019. S. Dobie, J. Schneider, & A. Szafranski, "Going beyond the Waffle House index: Using food systems as an indicator of community health and sustainability," *2019 International Conference on Technologies for Homeland Security (IEEE HST 2019)*, Waltham, MA, November 5-6.

2019. J. Schneider, S. Dobie, & S. Ghetas, "Translation of process safety to cyber incidents within the emergency management arc," *2019 International Conference on Technologies for Homeland Security (IEEE HST 2019)*, Waltham, MA, November 5-6.

2018. J. Schneider, C. Romanowski, S. Mishra, R. K. Raj, & S. Dobie, "Building robust risk management as a method of situational awareness at the local level," *2018 IEEE International Conference on Technologies for Homeland Security (IEEE HST 2018)*, Woburn, MA, October 23-24.

2017. S. Dobie & J. Schneider, "Development of a process improvement matrix to measure community level sustainability: a collaborative case study of Rochester, NY, USA," *2017 IEEE International Conference on Technologies for Homeland Security (IEEE HST 2017)*, Waltham, MA, April 25-26.

### Book Chapters (\*co-authored, not listed)

2020. J. Coffee, & S. Dobie, "Contrasting stories of resilience from two cities addressing rising sea levels" in *Our changing coasts*, Island Press. *Forthcoming*.

2019. J. Coffee\*, "Financing resilient infrastructure" in R. Colker [Ed.], *Optimizing community infrastructure: resilience in the face of shocks and stresses*, Elsevier.

### Reports (\*coauthored, not listed)

2020. S. Dobie, H. Baker, & A. Carter, "Carestream 2020 sustainability report," Carestream Health, *Forthcoming*.

2019. J. Coffee, S. Dobie, & June Choi, “Climate resilience principles: A framework for assessing climate resilience investments,” Climate Bonds Initiative.
2019. E. Cardinal & S. Dobie, “Rochester Institute of Technology 2017 Climate Action Plan,” Rochester Institute of Technology.
2018. J. Coffee\*, “Money for resilient infrastructure: how to finance America’s climate changed future,” Amazon Digital Services LLC.
2017. C. Kelsey\*, “Sustainability report 2016,” Carestream Health.

## PRESENTATIONS

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### Conference Presentations

- 2018 S. Dobie & J. Schneider, “Critical Hospitality: metrics as a path to resort resilience,” *2018 ISSST International Symposium on Sustainable Systems and Technology*, Buffalo, NY, June 25-28.
2017. S. Dobie, & J. Schneider, “Measuring the impact of organizational efforts on community sustainability and resilience,” *AWMA Finding Common Ground on Climate Change Mitigation and Adaptation*, Arlington, VA, October 10-11.
2017. J. Schneider & S. Dobie, “Pulling a string: Creating ladder metrics for community resilience management,” *Resilience Week Conference*, Wilmington, DE, September 18-22.
2016. J. Schneider, K. Keifer & S. Dobie, “Leapfrogging: Use of community sustainability initiatives to inform community resilience,” *Resilience Week Conference*, Chicago, IL, August 16-18.
2015. S. Dobie & A. Graham, “Environmental awareness workshop: An introduction to green initiatives at SUNY Brockport,” *Scholars Day; SUNY Undergraduate Research Conference*, Brockport, NY, April 4; April 10.

## RELEVANT WORK EXPERIENCE

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### Research Experience

- 2018-19. **Graduate Research Associate**, Collaboratory for Resiliency and Recovery, Rochester Institute of Technology  
Designed a survey and interview questions to measure the economic and social value of the Florida hotel and lodging industry’s CSR contributions to disaster relief. Mentored two research assistants, one graduate and one undergraduate.
2018. **Undergraduate Research Associate**, Julie Ann Wrigley Institute of Sustainability, Arizona State University  
Conducted research as part of the Urban Resilience to Extremes Sustainability Research Network that helped define social value in the context of climate resilience, built a framework for measuring social value of climate adaptation projects, and documented socially valuable case studies from North, Central, and South American cities.
- 2015-18. **Undergraduate Research Associate**, Collaboratory for Resiliency and Recovery, Rochester Institute of Technology  
Performed case study with fourteen organizations that developed a matrixed assessment and workshops to identify gaps in sustainability management systems and collaborative opportunities to improve their environmental and social impact, and created a climate action plan framework that is ready to pilot.
2015. **Research Assistant**, Aquaculture Research Laboratory, SUNY Brockport  
Assisted with research on mapping the food web of aquatic habitats through analysis of fatty acid signatures of prey and predatory fish in Cayuga Lake, and performed a study examining the effectiveness of thiamine treatments for Lake Michigan Steelhead.
- 2014-15. **Undergraduate Research Associate**, Department of Environment and Ecology, SUNY Brockport  
Authored independent research on a proposed general education requirement for a workshop to teach students about sustainability initiatives specific to the campus for Scholars Day and State University of New York Undergraduate Research Conference.

### Professional Experience

- 2018-Present. **Sub-Consultant**, Climate Resilience Consulting  
Technical expert that consults on various projects. Supported the technical lead for Climate Bonds Initiative’s Adaptation and Resilience Expert Group in developing the Climate Resilience Principles and Framework for the Green Bonds Standard and Certification Scheme. Crafting two book chapters, one chapter is about the basics of resilience finance for urban infrastructure professionals and the second comparing resilience strategies in two coastal cities.
- 2016, 2019. **EHS & Sustainability Intern**, Carestream Health  
Wrote Carestream’s 2016 and 2020 corporate sustainability reports, developed a management system framework for their corporate sustainability program using ISO 26000, proposed a five-year sustainability plan for corporate sustainability, developed a business case for transitioning to a new EHS information system, and assisted with EPA Mercury Reporting.

2016-18. **Climate Action Plan Manager**, Office of the President, Rochester Institute of Technology  
Wrote updated Climate Action Plan and took lead on the resilience portion of the plan, facilitated charrettes and collection of stakeholder feedback for Climate Action Plan, and performed climate vulnerability assessment.

2017. **Environmental Sustainability Intern**, Constellation Brands  
Created corporate sustainability plan and developed toolkits with guidance on sustainability initiatives for operations, assisted with CDP Reporting, and supported supply chain water risk assessment.

2016. **Sustainability Intern**, Rochester Regional Health  
Created sustainability action plan and report according to the GRI G4 reporting guidelines, set up system for performance measurement and evaluation, and implemented of various sustainability projects.

## TEACHING EXPERIENCE

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### **Taubman College of Architecture and Urban Planning, University of Michigan** (\*led weekly discussion section)

Winter 2020, Graduate Student Instructor\*, University of Michigan, Introduction to Environmental and Land Use Planning

### **Center for Interdisciplinary Studies, School for Individualized Study** (\*lectured weekly)

Spring 2020, Graduate Student Instructor\*, Rochester Institute of Technology, Wicked Problems

## FELLOWSHIPS, GRANTS & AWARDS

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### **Fellowships and Grants**

2020-21. **Graduate Research Fellow**, NOAA Great Lakes Environmental Research Laboratory and Cooperative Institute for Great Lakes Research (\$25,000)

2018-19. **Graduate Research Associate**, American Hotel and Lodging Educational Foundation Grant (\$15,000)

### **Scholarships and Awards**

2019. Academic Convocation Speaker, Rochester Institute of Technology

2019. College of Engineering Technology Commencement Speaker, Rochester Institute of Technology

2018, 2019. Outstanding Environmental Management Student Award, AWMA and NY Water Environment Association (\$2,000)

2018. Graduate College Delegate, College of Engineering Technology, Rochester Institute of Technology

2018. Environmental Management and Safety General Scholarship, College of Engineering Technology, Rochester Institute of Technology (\$1,500)

2018. BS/MS Scholarship, College of Engineering Technology, Rochester Institute of Technology (\$12,000)

2018. Nathaniel Rochester Society Scholarship, Rochester Institute of Technology (\$1,000)

2018. Outstanding Undergraduate Scholar Award, Rochester Institute of Technology

2015. Achievement Scholarship & Merit Scholarship, Rochester Institute of Technology (\$32,000)

2014. Honors College Scholarship, SUNY Brockport (\$24,000)

2013. Computing Medal, Rochester Institute of Technology (\$28,000, declined)

## PROFESSIONAL SERVICE

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### **Department and University Service**

2019-Present. LunchUP Coordinator, Taubman College of Architecture and Urban Planning, University of Michigan

2019-20. Urban Informatics and Technology-Based Planning Faculty Search Committee Member, Taubman College of Architecture and Urban Planning, University of Michigan

### **Professional Affiliations**

2015-17. Administrative Support, Rochester Sustainability Collaborative

Organized events, developed presentations, managed communications, and assisted member organizations with development of sustainability plans.