

Nicholas B. Rajkovich
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1. Education

Doctor of Philosophy, Urban and Regional Planning, University of Michigan, August 2014.
– Dissertation: [Assessing and Reducing Exposure to Heat Waves in Cuyahoga County, Ohio](#)
– Committee: Larissa Larsen (chair), Scott Campbell, Richard Norton, Marie O'Neill (School of Public Health)
– Fields: Land Use and Environmental Planning (major) and Building Science/Energy Policy (minor)

Master of Architecture (Post-Professional Degree), University of Oregon, June 2002.
– Thesis: Thermal Comfort in a Naturally-Ventilated and an Air-Conditioned Urban Arcade
– Committee: Alison Kwok (chair), G. Z. Brown, John Reynolds
– Technical Teaching in Architecture Certificate, 2002.

Bachelor of Architecture (Professional Degree), Cornell University, May 2000.
– Architecture, Art, and Planning Cornell-in-Rome Program, Spring Semester 1999

2. Registration, License, and Accreditation

Licensed Architect, State of Michigan, License Number 1301069982, February 4, 2020—.

California Office of Emergency Services Safety Assessment Program Evaluator, #88537, June 30, 2019—.

National Council of Architectural Registration Boards (NCARB) Certificate, #67940, October 31, 2009—.

Licensed Architect, State of Ohio, License Number ARC.0814737, October 6, 2008—.

U.S. Green Building Council (USGBC) LEED Accredited Professional, February 12, 2003—.

3. Academic Appointments

Associate Professor, University at Buffalo (UB) Department of Architecture, 2020—.
– Director of Graduate Studies for the School of Architecture and Planning dual-degree program, 2020—.

Assistant Professor, UB Department of Architecture, 2014–2016.
– Co-led the development of an interdisciplinary Advanced Graduate Certificate in Sustainability and a Master of Arts in Sustainability Leadership, 2017.
– Mechanical/electrical/plumbing systems and furniture faculty lead for the 2nd Place U.S. Department of Energy (DOE) Solar Decathlon Competition design/build team, 2014-2015.

Visiting Assistant Professor, Cornell University Department of Architecture, 2004–2006.
– Taught courses in architectural design, lighting, acoustics, and building mechanical systems.
– Architecture, construction, and mechanical/electrical/plumbing systems lead for a 2nd Place U.S. DOE Solar Decathlon Competition design/build team, 2004-2005.

Graduate Teaching/Research Fellow, University of Oregon Department of Architecture, 2000–2002.
– Managed daylighting, energy, and thermal comfort studies for the Energy Studies in Buildings Laboratory.

4. Professional Appointments

Senior Program Engineer, Pacific Gas and Electric Company, San Francisco, CA, 2007–2009.
– Designed a \$25 million zero net energy pilot program funded by the California Public Utilities Commission.
– Instructor of energy efficiency, daylighting, and electric lighting courses at the Pacific Energy Center.

Project Manager, Riecke Sunland Kono Architects, Ltd., Kahului, HI, 2006–2007.
– Design and project management for commercial, education, and golf resort projects on Maui and O'ahu.

Intern Architect/Associate, Einhorn Yaffee Prescott Architecture & Engineering, Albany, NY, 2002-2004.
– Led green building and energy efficiency studies for the New York State Energy Research and Development Authority (NYSERDA) and the State Department.

5. Awards[†]

The President Emeritus and Mrs. Meyerson Award for Distinguished Undergraduate Teaching and Mentoring, the highest University at Buffalo award given specifically for undergraduate mentoring, (<https://www.buffalo.edu/fellowships/faculty/myerson.html>), 2021.

Gary Day Teaching Award, voted on by the graduate architecture student body and awarded by the UB Architecture Graduate Student Association, 2020.

Award for Excellence in Sustainability from the American Planning Association Sustainable Communities Division to the City of Cleveland, Cleveland Neighborhood Progress, the Cleveland Urban Design Collaborative, and UB for the 2018 Cleveland Climate Action Plan: Building Thriving and Resilient Neighborhoods for All (<https://apascd.wordpress.com/awards/>), 2019.

Gary Day Teaching Award, voted on by the graduate architecture student body and awarded by the UB Architecture Graduate Student Association(<https://youtu.be/qEF6SMAtfwM?t=50m43s>), 2016.

American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE) Niagara Frontier Chapter Certificate of Appreciation for starting the UB ASHRAE Student Branch, 2016.

U.S. Department of Energy Solar Decathlon Competition, Irvine, California, 2015. (Martha Bohm, P.I.)

- 2nd Place overall with a score of 941.191 out of 1000 points possible, details available at <https://www.solardecathlon.gov/2015/competition-final-results.html>.
- 1st Place in the Comfort Zone, Commuting, and Energy Balance contests, details available at <https://www.solardecathlon.gov/2015/competition-scores-u-at-buffalo.html>

Doctoral Student Award for contributions to the Urban and Regional Planning program, Taubman College, and the University of Michigan; awarded by the Department of Urban and Regional Planning at the University of Michigan, May 2015.

American Institute of Architects (AIA) San Francisco Chapter Presidential Commendation for chairing the local Committee on the Environment, 2008.

Martin Dominquez Award for Distinguished Teaching in the Department of Architecture from the College of Architecture, Art, and Planning at Cornell University (<https://aap.cornell.edu/news-events/aap-faculty-members-honored-distinguished-teaching>), 2006.

U.S. Department of Energy Solar Decathlon Competition, Washington, D.C., 2005 (Zellman Warhaft, P.I.)

- 2nd Place overall with a score of 826.039 out of 1100 points possible.
- 1st Place in the Comfort Zone and Hot Water contests.

Architecture Research Centers Consortium (ARCC) King Student Medal for Architectural Research, 2002.

6. Fellowships and Scholarships

University of Michigan

- University of Michigan Rackham Graduate School One-Term Dissertation Fellowship, \$9,300, 2014.
- National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP), \$121,500 for tuition and stipend to support doctoral research, DGE 0718128, May 2011–April 2014.
- Scholarship to attend the Institute for Social Research (ISR) summer courses on qualitative methods from ISR/Rackham Graduate School at the University of Michigan, 2013.
- Doctoral Fellowship from the Graham Environmental Sustainability Institute at the University of Michigan, \$50,000 to support doctoral research over two years, 2011–2012.
- Scholarship to attend the Spatial Regression Modeling Workshop from the Population Research Institute at Pennsylvania State University, 2011.

University of Oregon

- University of Oregon School of Architecture and Allied Arts Dean's Fellowship, \$2,500, 2002.
- ASHRAE Oregon Chapter Fellowship, 2001.

[†] From this section on, gray text indicates that an item was completed before joining the University at Buffalo.

7. Grants

7.1 Grants: As Principal or Co-Investigator (\$1,824,815 total, \$395,733 to UB Architecture and Planning.)

Co-Principal Investigator with Carrie Brown, Anna LaRue, and Vrushali Mendon of Resource Refocus, LLC, \$49,780 from the NYSERDA to investigate the use of future Typical Meteorological Year (TMY) weather data for climate resilience planning in buildings, 2020. (\$11,254 to UB.)

Co-Investigator with Zoé Hamstead, People United for Sustainable Housing, Inc. (PUSH), and the Partnership for the Public Good for an Evaluation of PUSH Green, a Community-Based Energy Efficiency and Weatherization Program, \$348,328 from the Robert Wood Johnson Foundation, 2019-2021. (\$29,070 to UB.)

Co-Principal Investigator with Paul Coseo, David M. Hondula, Ariane Middel, and Zoé Hamstead, \$100,000 from the NSF Smart and Connected Communities Program to Arizona State University and UB to document current approaches to managing thermal extremes in cities, 2017–2019. (\$47,757 to UB.)

Co-Principal Investigator with Zoé Hamstead, Zachary Schlader, and Susan Clark, \$34,706 from the UB Research and Education in eNergy, Environment and Water (RENEW) Institute to develop thermal extreme indicators for vulnerability assessments and climate adaptation, 2017-2019.

Co-Investigator, Building Resiliency Assessment for the New York City Housing Authority, \$232,101 from the NYSERDA to DNV GL and UB to increase the resilience of New York City public housing, 2016–2019. (\$12,644 of funding to UB.)

Co-Investigator, Climate Resilience and Urban Opportunity Initiative from The Kresge Foundation, \$660,000 to Cleveland Neighborhood Progress, Inc., the Cleveland Urban Design Collaborative, the City of Cleveland, and UB to increase the climate resilience of low-income neighborhoods in Cleveland, OH, 2016–2019. (\$23,083 of funding to UB.)

Principal Investigator, Climate Change Impacts on the Buildings Sector of New York State, a \$371,765 project with \$274,900 in support from NYSERDA to UB and \$96,865 in cost sharing. Research project includes subcontractors L&S Energy Services and Weather Analytics; it examines impacts of climate change on buildings, 2015–2019. (\$215,219 of funding to UB.)

Co-Investigator, Climate Resilience and Urban Opportunity Initiative Planning Grant from The Kresge Foundation, \$100,000 planning grant to Cleveland Neighborhood Progress, Inc., the Cleveland Urban Design Collaborative, Kent State University, and UB to develop a climate resilience plan for low-income neighborhoods in Cleveland, OH, 2015–2016. (\$22,000 of funding to UB.)

Co-Investigator with Alison G. Kwok, Case Studies of Carbon Neutrality, \$25,000 from the AIA to the University of Oregon to catalog the design process of carbon-neutral buildings, 2008–2009.

7.2 Grants: To Support Teaching/Other Projects (\$1,428,528 total, ~\$410,200 to UB Architecture and Planning.)

Collaborated with Ryan McPherson (UB), Madeleine Dewey (UB), Julie Barrett O'Neill (City of Buffalo), Brendan R. Mehaffy (City of Buffalo), Michael LeVine (Buffalo State University), Michael Pietkiewicz (Erie Community College), Eric Walker (Erie County), Christopher O'Brien (Altenex), Paul Tyno (Buffalo Niagara Medical Campus), and Steven Ranalli (Erie Canal Harbor Development Corporation) on "Localizing Buffalo's Renewable Energy Future," a \$1,000,000 renewable energy and climate resilience proposal funded by NYSERDA, 2016. (~\$290,000 used to set up the Solar Decathlon house as an energy education center.)

\$2,000 from the ASHRAE Niagara Frontier Chapter, \$1,500 from the UB RENEW Institute, and \$2,000 from the UB School of Architecture and Planning for a climate change adaptation symposium entitled "From Sandy to Snowvember," 2016.

Collaborated with the UB Office of Corporate and Foundation Relations and the UB School of Architecture and Planning Dean's Office to acquire \$71,200 in cash, in-kind, and labor donations from NYSERDA, the ASHRAE Niagara Frontier Chapter, H&V Sales, Gerster Trane, Northeast Mechanical, Rigidized Metals, Whirlpool Corporation, and others for Solar Decathlon, 2014-2015.

\$3,500 from the UB Department of Architecture for building forensics equipment, 2015.

7.3 Grants: As a Graduate Student (\$357,734 total, \$28,258 to support dissertation-related research.)

Co-author of proposal and graduate research assistant for "Climate Change and Health: Residential Energy-Efficiency for Comfort and Equity," \$304,476 in funding from the National Institutes of Health Sciences, Grant Number 1R21ES020156-01A1, 2012–2016. (Marie S. O'Neill and Larissa Larsen, P.I.)

Co-founder and co-editor of the *Michigan Journal of Sustainability* (with Irem Daloglu and Tara Clancy), \$9,200 from the Graham Environmental Sustainability Institute at the University of Michigan, 2011–2013.

Sponsor P.I. (under supervision of Larissa Larsen), "Understanding the Relationship Between the Building Envelope and Indoor Thermal Environmental Conditions During Heat Waves," \$4,000 from the Michigan Memorial Phoenix Energy Institute for building energy modeling software and computer, 2010–2012.

Co-author of proposal and graduate research assistant for "Climate Resilience and Adaptation Guidelines," \$25,000 from the USGBC to investigate the performance of green buildings under changing climatic conditions, 2010–2011. (Larissa Larsen, P.I.)

Sponsor P.I. (under supervision of Larissa Larsen), Urban Climate/Heat Island Network (UrCHIN) Measurement Cart, \$15,058 from the University of Michigan to construct a portable weather station, 2010.

8. Publications

8.1 Publications: Edited Book

Rajkovich, Nicholas B., and Seth Holmes, eds. 2021. *Climate Adaptation and Resilience Across Scales: from Buildings to Cities*. New York, NY: Routledge. (Book in final production.)

8.2 Publications: Book Chapters

Okour, Yasmein, Nicholas B. Rajkovich, and Martha Bohm. 2019. Balancing Adaptation and Mitigation in the Building Sector of New York State. In *Handbook of Climate Change Resilience*, edited by Walter Leal Filho, Paul O'Hare, et al. Basel, Switzerland: Springer Nature. (doi: [10.1007/978-3-319-71025-9_124-1](https://doi.org/10.1007/978-3-319-71025-9_124-1))

Smith, Korydon, Nicholas B. Rajkovich, and Beth Tauke. 2017. Wild Problems, Messy Learning: Leveraging the Strengths of Project- and Problem-based Learning. In *Teaching Assistant Handbook*, edited by Carol Van Zile-Tamsen and Cathleen Morreale. Hauppauge, NY: Nova Science Publishers, Inc.

Rajkovich, Nicholas B., Alison G. Kwok, and Larissa S. Larsen. 2013. LEED, collaborative rationality, and green building public policy. In *Constructing Green: The Social Structures of Sustainability*, edited by Rebecca Henn and Andrew Hoffman. Cambridge, Massachusetts: MIT Press.

Rajkovich, Nicholas B., William C. Miller, and Roland J. Risser. 2013. The prospect of zero net energy buildings in the United States. In *Energy Efficiency: Towards the End of Demand Growth*, edited by F. P. Sioshansi. Waltham, Massachusetts: Academic Press.

Rajkovich, Nicholas B., William C. Miller, and Anna M. LaRue. 2011. Zeroing in on Zero Net Energy. In *Energy, Sustainability, and the Environment: Technology, Incentives, Behavior*, edited by F. P. Sioshansi. Burlington, Massachusetts: Butterworth-Heinemann.

Rajkovich, Nicholas B. 2007. Contributor of four strategies (Indirect Gain, Active Solar Thermal Energy Systems, Absorption Chillers, and Combined Heat and Power Systems) and a case study describing the 2005 Cornell University Solar Decathlon House in *The Green Studio Handbook: Environmental Strategies for Schematic Design, 1st Edition*, Walter Grondzik and Alison G. Kwok. London: Architectural Press.

8.3 Publications: Refereed Journal Articles

Hamstead, Zoé, Paul Coseo, Saud AlKhaled, Emmanuel Frimpong Boamah, David M. Hondula, Ariane Middel, and Nicholas Rajkovich. 2020. Thermally resilient communities: creating a socio-technical collaborative response to extreme temperatures. *Buildings and Cities* 1 (1):218–232. (doi: [10.5334/bc.15](https://doi.org/10.5334/bc.15))

Rajkovich, Nicholas B. and Yasmein Okour. 2019. Climate Change Resilience Strategies for the Building Sector: Examining Existing Domains of Resilience Utilized by Design Professionals. *Sustainability* 11 (10), 2888. (doi: [10.3390/su11102888](https://doi.org/10.3390/su11102888))

Rajkovich, Nicholas B. 2016. A System of Professions Approach to Reducing Heat Exposure in Cuyahoga County, Ohio. *Michigan Journal of Sustainability* 4: 81-101. (doi: [10.3998/mjs.12333712.0004.007](https://doi.org/10.3998/mjs.12333712.0004.007))

Rajkovich, Nicholas B., and Larissa Larsen. 2016. A Bicycle-Based Field Measurement System for the Study of Thermal Exposure in Cuyahoga County, Ohio, USA. *International Journal of Environmental Research and Public Health* 13: n. pag. (doi: [10.3390/ijerph13020159](https://doi.org/10.3390/ijerph13020159))

Pyke, Chris, Sean McMahon, Larissa Larsen, Nicholas B. Rajkovich, and Adam Rohloff. 2012. Development and analysis of Climate Sensitivity and Climate Adaptation opportunities indices for buildings. *Building and Environment* 55(9): 141-149. (doi: [10.1016/j.buildenv.2012.02.020](https://doi.org/10.1016/j.buildenv.2012.02.020))

Conlon, Kathryn C., Nicholas B. Rajkovich, Jalonnie White-Newsome, Larissa Larsen, and Marie S. O'Neill. 2011. Preventing cold-related morbidity and mortality in a changing climate. *Maturitas* 69 (3): 197-202. (doi: [10.1016/j.maturitas.2011.04.004](https://doi.org/10.1016/j.maturitas.2011.04.004))

Kwok, Alison G., and Nicholas B. Rajkovich. 2010. Addressing climate change in comfort standards. *Building and Environment* 45(1): 18-22. (doi: [10.1016/j.buildenv.2009.02.005](https://doi.org/10.1016/j.buildenv.2009.02.005))

8.4 Publications: Edited Journal Articles

Lutsky, Karen, Sean Burkholder, and Nicholas B. Rajkovich. In Press. Landscape Probes and Curious Methods. *Lunch 14*. (<http://lunch-journal.com/lunch-14>)

Rajkovich, Nicholas B., and Elizabeth K. Gilman. 2019. Design with (a Variable and Changing) Climate. *Urban Infill No. 8, Future City: 78-84*.

8.5 Publications: Edited Journal Volumes

Cheng, Susan, Rebecca Mandell, Nicholas B. Rajkovich, Sarah Mills, Missy Stults, Patrick Harlin, Lingli He, Thomas Jenkinson, Lauren Stadler, Michelle Reicher Newstadt, and Brian Vickers, editors. 2014. *Michigan Journal of Sustainability*, Volume 2. (doi: 10.3998/mjs.12333712.0002.001)

Rajkovich, Nicholas B., Irem Daloglu, Tara Clancy, Susan Cheng, Brian Vickers, Dana Kornberg, and Erica Morrell, editors. 2013. *Michigan Journal of Sustainability*, Volume 1. (doi: 10.3998/mjs.12333712.0001.002)

Walliser, Andres, Nicholas B. Rajkovich, and John Forester, editors. 2012. Exploring the Challenges of Environmental Planning and Green Design: Cases from Europe and the USA. *Planning Theory & Practice* 13(1). (doi: 10.1080/14649357.2012.652007)

8.6 Publications: Refereed Conference Papers

Holmes, Seth, Nicholas B. Rajkovich, and Fahed Baker. 2017. Optimizing a parametric energy model for use in citywide residential overheating analysis. International Building Performance Simulation Association Building Simulation 2017 Conference, August 7-9, 2017 at San Francisco, California. (http://www.ibpsa.org/proceedings/BS2017/BS2017_364.pdf)

Cooper, Lauren T., and Nicholas B. Rajkovich. 2012. An Evaluation of the Potential for District Energy Systems in North America. American Council for an Energy-Efficient Economy (ACEEE) Summer Study on Energy Efficiency in Buildings, August 12-17, 2012, at Asilomar, California. (<https://aceee.org/files/proceedings/2012/data/papers/0193-000354.pdf>)

Thomas Collins, Nicholas B. Rajkovich, Alison G. Kwok, and Christina Bollo. 2012. Using case studies to navigate the course to zero net energy. ACEEE Summer Study at Asilomar, California. (<https://aceee.org/files/proceedings/2012/data/papers/0193-000309.pdf>)

Rajkovich, Nicholas B., Rick Diamond, and Bill Burke. 2010. Zero Net Energy Myths and Modes of Thought. ACEEE Summer Study, August 15-20, 2010, at Asilomar, California. (<https://aceee.org/files/proceedings/2010/data/papers/2125.pdf>)

Brown, G. Z., Lori Kessler, Laura Wade Jensen, Jeff Kline, Dale Northcutt, Nicholas Rajkovich, Crawford Smith, and Emily Wright. 2004. Prince Lucien Campbell Hall—Take My Air Conditioner, Please! American Solar Energy Society (ASES) Solar Conference 2004, July 9 - 14, 2004, in Portland, Oregon.

Rajkovich, Nicholas, and Alison G. Kwok. 2003. Thermal Comfort in Urban Arcades: Expectation, Memory, and Control. Architectural Research Centers Consortium (ARCC) Spring Research Conference, April 2003, in Tempe, Arizona.

Rajkovich, Nicholas, and Alison G. Kwok. 2002. Thermal Comfort in a Naturally-Ventilated and an Air-Conditioned Urban Arcade. ARCC Spring Research Conference, April 2002, in Montreal, Canada.

Rajkovich, Nicholas, and Alison G. Kwok. 2001. Arcades: Investigating the Phenomena of an Urban Form. ARCC Spring Research Conference, April 2001, in Blacksburg, Virginia.

8.7 Publications: Invited Conference Papers

Kwok, Alison, and Nicholas Rajkovich. 2004. Agents of Change: Training Future Teachers, Architects, and Stewards of the Built Environment. Paper requested for the Association of the Collegiate Schools of Architecture (ACSA) Teachers Seminar, July 2004, Bloomfield Hills, Michigan.

8.8 Publications: Abstract-Reviewed Conference Papers

Rajkovich, Nicholas B., and Larissa Larsen. 2010. LEED as Collaborative Planning; LEED as Public Policy. Constructing Green: Sustainability and the Places We Inhabit, May 20-22, 2010, in Ann Arbor, Michigan.

Thomson, Gregory, and Nicholas Rajkovich. 2006. Unbuilt, Untested, Performance Unknown: Libbey-Owens-Ford and "Your Solar House." ASES 2006 Solar Conference, July 8-13, 2006, in Denver, Colorado.

Hollinger, Alex, and Nicholas Rajkovich. 2006. An Evaluation of Two Current Residential Green Building Programs: LEED for Homes and the Solar Decathlon. ASES 2006 Solar Conference.

Volpicelli, Gina, and Nicholas Rajkovich. 2006. The 2005 Cornell University Solar Decathlon Project. ASES 2006 Solar Conference.

Rajkovich, Nicholas, and Gregory Thomson. 2005. The Preservation of Historic Thermal Environmental Systems. International Solar Energy Society (ISES) 2005 Solar World Conference, August 6-12, 2005, in Orlando, Florida.

Thomson, Gregory, and Nicholas Rajkovich. 2005. Process or Artifact: Preserving Experimental Systems of Passive Environmental Control. ISES 2005.

Stansell, Caitlin, Kristin DiStefano, Renee Millett, Merrill Ballantyne, Yuka Terada, and Nicholas Rajkovich. 2005. Balancing Act: A Study of Daylighting and Thermal Performance in Ithaca, New York. ISES 2005.

Chin-Dickey, Emile, Joshua Bonaventura-Sparagna, and Nicholas Rajkovich. 2005. The Cornell University Solar Decathlon Team: Learning Through Practice. ISES 2005.

8.9 Publications: Other Research-Related Publications

Brown, Carrie, Elizabeth Gilman, and Nicholas B. Rajkovich. 2020. Assessment of Future Typical Meteorological Year Data Files. New York State Energy Research and Development Authority, Albany, NY.

Rajkovich, Nicholas B. 2019. "As the climate changes, architects and engineers need to design buildings differently" for *The Conversation*: <https://theconversation.com/as-the-climate-changes-architects-and-engineers-need-to-design-buildings-differently-119590>. Article republished by Fast Company and others.

The following five research reports are available for download at <http://ap.buffalo.edu/adapting-buildings>:

- Gilman, Elizabeth, Nicholas B. Rajkovich, Thomas J. Mulligan, and Brendan Kelly. 2019. Modeling the Impacts of Climate Change on Building Energy Performance in New York State. New York State Energy Research and Development Authority, Albany, NY.
- Bohm, Martha, Nicholas B. Rajkovich, Yasmein Okour, Elizabeth Gilman, and Thomas J. Mulligan. 2019. Climate Adaptation by Design: Overview for New York State Building Professionals. New York State Energy Research and Development Authority, Albany, NY.
- Rajkovich, Nicholas B., Michael E. Tuzzo, Nathaniel Heckman, Krista Macy, Elizabeth Gilman, Martha Bohm, and Harlee-Rae Tanner. 2018. Climate Resilience Strategies for Buildings in New York State. New York State Energy Research and Development Authority, Albany, NY.
- Ray, Paul, Nicholas B. Rajkovich, Michael E. Tuzzo, Martha Bohm, and Bartholomew Roberts. 2018. Regional Costs of Climate Related Hazards for the New York State Building Sector. New York State Energy Research and Development Authority, Albany, NY.
- Tuzzo, Michael E., Elizabeth Gilman, Nicholas B. Rajkovich, Bartholomew Roberts, Ellen Cousins, Sean Daigneault, and Stefan Cecelski. 2018. New York State Climate Hazards Profile. New York State Energy Research and Development Authority, Albany, NY.

Hondula, David M. et al. 2018. "An unlikely climate collaboration: two mid-sized cities are working together to beat extreme heat and cold" for *Medium*: <https://medium.com/smart-connected-management-of-thermal-extremes/an-unlikely-climate-collaboration-4a54665578e5>

Gray et al. 2018. "Cleveland Climate Action Plan 2018 Update: Building Thriving and Resilient Neighborhoods for All" for the City of Cleveland: https://www.sustainablecleveland.org/climate_action.

Reilly, Brenna C., Kelley Mosher, and Nicholas B. Rajkovich. 2018. "Cleveland Climate Action Plan: Climate & Social Vulnerability Assessment" for the City of Cleveland: Cleveland, OH.

Rajkovich, Nicholas B. 2017. "Cities need more than air conditioning to get through heat waves" for *The Conversation*: <http://theconversation.com/cities-need-more-than-air-conditioning-to-get-through-heat-waves-81069>. Article republished by Phys.org, Observer.com, San Francisco Chronicle, and others.

Rajkovich, Nicholas B., and Krista Macy. 2016. "Thermal Comfort" and "Indoor Air Quality" design resources for the *innovative solutions for Universal Design (isUD™)* project website: <https://www.thisisud.com/>.

Rajkovich, Nicholas B. 2016. "Summer in the City: Preparing the Built Environment for Extreme Heat" for the AIA Blueprints: <https://www.aia.org/articles/2721-summer-in-the-city-preparing-for-extreme-heat>.

Terry Schwarz, Nicholas Rajkovich, Linda Warren, Matthew Gray, and Jenita McGowan. 2015. "Cleveland Climate Resilience and Urban Opportunity Plan" for Cleveland Neighborhood Progress: Cleveland, OH.

Rajkovich, Nicholas B. 2015. "An Introduction to Climate Change in Cleveland and Cuyahoga County" for the Cuyahoga County Office of Emergency Management periodical *EMA Review*.

Larissa Larsen, Nicholas Rajkovich, Clair Leighton, Kevin McCoy, Koben Calhoun, Evan Mallen, Kevin Bush, and Jared Enriquez. 2012. *Green Building and Climate Change: Understanding Impacts and Preparing for Changing Conditions*. Ann Arbor, MI and Washington, DC: University of Michigan and the USGBC. (Report available at <http://www.usgbc.org/resources/green-building-and-climate-resilience-understanding-impacts-and-preparing-changing-conditi>)

Kwok, Alison G. et al., eds. 2010. "Zero Net Energy Workshop & Design Charrette" for the University of Oregon Center for Housing Innovation: <http://www.lulu.com/shop/alison-kwok/zero-net-energy-workshop-and-design-charrette/paperback/product-5093773.html>.

Kwok, Alison G., and Nicholas Rajkovich. 2009. "Narratives from Practice: Toward Carbon Neutrality." Paper requested for the 5th Edition of the AIA Report on University Research: <https://www.brikbases.org/content/narratives-practice-toward-carbon-neutrality>. Washington, D.C.: AIA.

Kwok, Alison G., Britni L. Jessup, and Nicholas B. Rajkovich. 2009. "Case Studies of Carbon Neutrality" for the AIA: <https://www.brikbases.org/sites/default/files/aiab080508.pdf>.

Grondzik, Walter, with Nicholas Rajkovich. 2005. *Mechanical and Electrical Equipment for Buildings: Instructor's Manual*. 10th ed. New York: John Wiley and Sons, Inc.

Dunn, Wayne A. et al. Standard 55-2004: Thermal Environmental Conditions for Human Occupancy. Atlanta, GA: ANSI/ASHRAE.

8.10 Publications: Professional Reports[‡]

Robert Eichelman, Dennis Landsberg, Joseph Porcelli*, Nicholas Rajkovich, and Katherine Roden. 2004. Overseas Building Operations LEED Standard Embassy Prototype - LEED Study, Cost Analysis, and Energy Modeling. Washington, DC: United States Department of State.

Dennis Landsberg, Joseph Porcelli*, and Nicholas Rajkovich. Technical Assistance Studies in Support of the New Construction Program: Energy Efficiency, Green Building, and DOE-2 Analyses. Albany, NY: NYSERDA.

- September 2004: Rockland Community College – New Technology Building
- August 2004: The Rehabilitation of Husted Hall at the University at Albany
- August 2004: Rockland Community College – Student Union Renovation Project
- January 2004: Hamilton College – New Science Center
- November 2003: Cornell University – Duffield Hall
- October 2003: Building Renovation Project – One Park Place
- September 2003: Harris Hill Volunteer Fire Company New Fire Station Building Project
- September 2003: Binghamton University – New Residential Community – Buildings 2 & 4
- August 2003: Building Renovation Project – 1251 New Scotland Road
- August 2003: Harris Hill Volunteer Fire Company New Fire Station Building Project
- July 2003: Downtown Campus – Central Plant Study for the University at Albany
- July 2003: Downtown Campus – Central Plant Study for the University at Albany

G. Z. Brown*, Laura Jensen, Jeff Kline, Dale Northcutt, and Nicholas Rajkovich. December 2001. Comfort Study Phase II: Prince Lucien Campbell Hall. Eugene, OR: Energy Studies in Buildings Laboratory (ESBL).

G. Z. Brown*, Jeff Kline, and Nicholas Rajkovich. August 2001. Lane County Mental Health Services: Office Daylighting. Eugene, OR: ESBL.

G. Z. Brown*, Jeff Kline, Dale Northcutt, Nicholas Rajkovich, and Daniel Strening. June 2001. Environmental Education Center. Eugene, OR: ESBL.

G. Z. Brown*, Jeff Kline, Dale Northcutt, Nicholas Rajkovich, and Daniel Strening. June 2001. University Hospitals Health System Research Institute. Eugene, OR: ESBL.

[‡] These reports did not have a formal author order; in this section, senior authors are indicated with an asterisk.

9. Research/Projects Featured in the Media

9.1 Research/Projects Featured in National/International News and Media

- Feb. 3, 2020 "Weather Whiplash" Could Impact Your Projects" by Katy Tomasulo for Architect Magazine: https://www.architectmagazine.com/aia-architect/aiafuture/weather-whiplash-could-impact-your-projects_o
- Aug. 7, 2019 "Why Heat Waves Are Even Worse in Big Cities" by Julie Rose for Brigham Young University (BYU) Radio on Sirius XM: <https://www.byuradio.org/episode/2359c6b1-1c84-48e8-bb9c-3b3957faa85f/top-of-mind-with-julie-rose-guns-hot-cities-parks-and-safety-forest-management>
- July 18, 2019 "Adapting cities to a hotter world: 3 essential reads" by Jenny Weeks for The Conversation: <https://theconversation.com/adapting-cities-to-a-hotter-world-3-essential-reads-120634>
- July 12, 2019 "Your city probably won't feel like itself in 30 years" by Justine Calma for Grist: <https://grist.org/article/your-city-probably-wont-feel-like-itself-in-30-years/>
- May 26, 2019 "A 200-year-old bicycle inspires design for climate change" by Nora Young for CBC Spark: <https://www.cbc.ca/radio/spark/spark-440-1.5141216/a-200-year-old-bicycle-inspires-design-for-climate-change-1.5141222>
- Apr. 24, 2019 "How an Ancestor of the Bicycle Relates to Climate Resilience" by Nicole Javorsky for the Atlantic's Citylab: <https://www.citylab.com/design/2019/04/bicycle-invent-karl-drais-dandy-horse-climate-change-history/587719/>
- Nov. 28, 2018 "As rainfall intensifies, cities prepare for more stormwater" by Samantha Harrington for Yale Climate Connections: <https://www.yaleclimateconnections.org/2018/11/cities-brace-for-more-stormwater/>
- Aug. 16, 2018 "When rain is just as dangerous as drought" by Eleanor Cummins for Popular Science: <https://www.popsoci.com/climate-change-extreme-rain>
- Aug. 7, 2018 "A look at how the changing climate is impacting New York State's building stock" by David J. Hill for UB and republished on phys.org: <https://phys.org/news/2018-08-climate-impacting-york-state-stock.html>
- Feb. 14, 2018 "4 ways cities can prepare for climate change and advance social justice" by Kathiann M. Kowalski for Energy News Network: <https://energynews.us/midwest/4-ways-cities-can-prepare-for-climate-change-and-advance-social-justice/>
- Feb. 13, 2018 "Cleveland sees clean energy as tool for climate change resiliency" by Kathiann M. Kowalski for Energy News Network, republished by the UN Office for Disaster Risk Reduction (UNISDR) on PreventionWeb: <https://www.preventionweb.net/news/view/57043>
- Dec. 4, 2017 "USA: Climate change and the tale of two cities" by David J. Hill for the UB News Center, republished by the UNISDR on PreventionWeb: <http://www.preventionweb.net/news/view/56161>
- Jan. 6, 2017 "Cleveland's Surprising Climate Buffers" by Lynn Freehill-Maye for the Atlantic's Citylab: <http://www.citylab.com/cityfixer/2017/01/clevelands-surprising-climate-buffers/512441/>
- Nov. 3, 2016 "Weather Bikes Stand Out In Urban Studies, Advance Science Dialogue" by Daniel Kelly for Environmental Monitor: <http://www.fondriest.com/news/weather-bikes-stand-urban-studies-advance-science-dialogue.htm>
- Aug. 2016 Research discussed in "Design Education in the Rust Belt" by Amanda Kolson Hurley for Architect Magazine, Volume 105(8): 73-80: https://www.architectmagazine.com/practice/a-rust-belt-education_o.
- Mar. 11, 2016 "How One Man on a 75-Pound Bike Took a City's Temperature" by Jen Kinney for Next City: <https://nextcity.org/daily/entry/bicycle-weather-station-temperature-rise-cleveland>
- Mar. 7, 2016 "Dit weerstation op een fiets verzamelt lokale klimaatdata" by Stan Hulsen for Numrush: <http://numrush.nl/2016/03/07/dit-weerstation-op-een-fiets-verzamelt-lokale-klimaatdata/>
- Mar. 4, 2016 "Weather Bike Dissects Urban Heat Island Effect" by Daniel Kelly for Environmental Monitor: <http://www.fondriest.com/news/weather-bike-dissects-urban-heat-island-effect.htm>
- Mar. 3, 2016 "This Weather Station On A Bike Records Climate Change At The Local Level" by Ben Schiller for Fast Company: <https://www.fastcompany.com/3057336/this-weather-station-on-a-bike-records-climate-change-at-the-local-level>

- Mar. 1, 2016 "Architect Turns Bicycle Into Full, Rolling Weather Station" by Paul Douglas for the Minneapolis Star Tribune: <http://www.startribune.com/winter-on-a-slow-fizzle-showery-50s-next-week-february-earth-s-warmest-month-in-the-satellite-record/370754901/>
- Feb. 28, 2016 "Man builds 6.5ft weather station on bike" by Laura Laker for Road.cc: <http://road.cc/content/news/180680-man-builds-65ft-weather-station-bike>
- Feb. 26, 2016 "A Professor is Riding this High-Tech 'Weather Bike' Around Cleveland" by David J. Hill for Futurity: <http://www.futurity.org/bicycle-weather-heat-islands-1111622/>
- Feb. 26, 2016 "Bicycle sports its own full weather station" by Ben Coxworth for Gizmag: <http://www.gizmag.com/weather-station-bicycle/42053/>
- Feb. 1, 2016 "A Weather Station With Wheels" by Aarian Marshall for the Atlantic's Citylab: <http://www.citylab.com/cityfixer/2016/02/a-weather-station-with-wheels/433986/>
- Oct. 21, 2015 "An Eco-Friendly Prototype whose Furniture Maximizes Energy Efficiency" by Caroline Wallis with photographs by Carl Burdick. Featured in Dwell: <https://www.dwell.com/collection/an-eco-friendly-prototype-whose-furniture-maximizes-energy-efficiency-e4a83c11>
- Oct. 10, 2015 "Students Design Efficient Furniture for Solar House Competition" by Colleen Egan with photographs by Douglas Levere. Featured in Architectural Digest: <http://www.architecturaldigest.com/gallery/energy-efficient-house-furniture>
- Oct. 2015 "That Unwelcome Stranger Called Climate Change" by Allen Best. Featured in Planning magazine: <https://www.planning.org/planning/2015/oct/unwelcomestranger.htm>
- Sept. 17, 2015 "Confronting the Dual Challenges of Climate Change and Poverty: A Case Study of Cleveland" by Gwynne Taraska and Hannah Fleisch for the Center for American Progress: <https://www.americanprogress.org/issues/green/news/2015/09/17/121428/confronting-the-dual-challenges-of-climate-change-and-poverty-a-case-study-of-cleveland/>

9.2 Research/Projects Featured in Local News and Media

- Jan. 6, 2021 "UB architecture students add to Silo City's regenerating landscape" by David J. Hill: <http://www.buffalo.edu/ubnow/stories/2021/01/arch-silo-city.html>
- Dec. 8, 2020 "UB architecture students use design to help mitigate spread of COVID-19 in NYC" by David J. Hill: <http://www.buffalo.edu/ubnow/stories/2020/12/arch-design-covid-nyc.html>
- Sept. 2, 2020 "UB's GRoW Home moves to North Campus to become clean energy center" by David J. Hill: <http://www.buffalo.edu/ubnow/stories/2020/09/grow-home-moves-north.html>
- Aug. 23, 2019 "NASA analysis sheds light on Cleveland area's rooftop solar potential" by Kathiann M. Kowalski for Energy News Network: <https://energynews.us/2019/08/23/midwest/nasa-analysis-sheds-light-on-cleveland-areas-rooftop-solar-potential/>
- Mar. 4, 2019 "How a 200-year-old precursor to the bicycle remains relevant for today's architecture students" by David J. Hill: <http://www.buffalo.edu/news/releases/2019/03/004.html>
- Aug. 6, 2018 "Reports offer look at how climate change is impacting New York State's buildings" by David J. Hill: <http://www.buffalo.edu/news/releases/2018/08/004.html>
- Oct. 15, 2018 "UB's GRoW Home is all grown up" by David J. Hill for UBNOW: <http://www.buffalo.edu/ubnow/stories/2018/10/grow-home-south-campus.html>
- Jan. 11, 2018 "Studying Extreme Weather's Impact On Cities, From Hot To Cold" by Mark Brodie of KJZZ 91.5: <https://kjzz.org/content/591457/studying-extreme-weathers-impact-cities-hot-cold>
- Dec. 8, 2017 "Regional resilience summit in Cleveland a success" by Nicholas Knock for the Health Care Without Harm News: <https://noharm-uscanada.org/articles/news/us-canada/regional-resilience-summit-cleveland-success>
- Nov. 20, 2017 "Cleveland health powerhouses move to address climate change" by Marc Lefkowitz for Green City Blue Lake: <http://www.gcbl.org/blog/2017/11/cleveland-health-powerhouses-move-to-address-climate-change>
- Nov. 10, 2017 "In harm's way, Cleveland seeks climate resilience" by Marc Lefkowitz for Green City Blue Lake, <http://www.gcbl.org/blog/2017/11/in-harms-way-cleveland-seeks-climate-resilience>
- Sept. 12, 2017 "UB RENEW awards seed grants to projects related to extreme weather, sustainable energy" by Cory Nealon for the UB News Center: <https://www.buffalo.edu/ubnow/stories/2017/09/renew-seed-funding.html>

- Nov. 4, 2016 "Climate change: More than heat waves and hurricanes" by David J. Hill for the UB News Center: <http://www.buffalo.edu/news/releases/2016/11/008.html>
- Oct. 20, 2016 "Climate Ambassadors: street-level environmental activism" by Douglas J. Guth for Fresh Water: <http://www.freshwatercleveland.com/features/ClimateAmbassador102016.aspx>
- April 24, 2016 "Working to ensure Cleveland's sustainable future via Resilient Midwest Cities Summit" by Jenita McGowan and Cathleen Kelly for cleveland.com: http://www.cleveland.com/opinion/index.ssf/2016/04/working_to_ensure_clevelands_s.html
- April 19, 2016 "Cleveland praised for climate change resilience efforts by Center for American Progress" by Steven Litt for cleveland.com: http://www.cleveland.com/architecture/index.ssf/2016/04/cleveland_praised_for_climate.html
- April 1, 2016 "UB Professor Creates Weather Station on a Bicycle" by Andrew Baglini for WIVB TV, Buffalo.
- Mar. 18, 2016 "Weather bike gathers data around Cleveland" by Greg Dee for WKYC Channel 3 TV, Cleveland: <http://www.wkyc.com/news/weather-bike-gathering-data-around-cleveland/89119547>
- Mar. 14, 2016 "UB Professor Assembles Bike Weather Station" by Robert Creenan for Buffalo Rising: <http://www.buffalorising.com/2016/03/ub-professor-develops-bike-weather-station/>
- Feb. 26, 2016 "Architect Designs Weather Station on Two Wheels" by David J. Hill for the UB Reporter: <http://www.buffalo.edu/news/releases/2016/02/044.html>
- Feb. 3, 2016 "Along for the ride" by Scott Suttell for Crain's Cleveland Business: <http://www.crainsicleveland.com/article/20160203/BLOGS03/160209926/cleveland-shines-in-a-new-book-on-vintage-ultra-bright-linen>
- Jan. 14, 2016 "Cleveland awarded \$600K to tackle climate vulnerability" by Marc Lefkowitz for Green City Blue Lake, <http://www.gcbl.org/blog/2016/01/cleveland-awarded-600k-to-tackle-climate-vulnerability>
- Jan. 7, 2016 "Building climate resilience in at-risk communities" by Rachel Teaman for the UB Reporter: https://www.buffalo.edu/ubnow/stories/2016/01/profile_rajkovich.html
- Winter 2016 "The GRoW Home!" by Julie Wesolowski for At Buffalo, the magazine for alumni of the State University of New York at Buffalo: <http://www.buffalo.edu/atbuffalo/article-page-winter-2016.host.html/content/shared/www/atbuffalo/articles/Winter-2016/features/grow-home.detail.html>
- Dec. 15, 2015 "Midwest cities could be first to meet climate pact" by Marc Lefkowitz for Green City Blue Lake, <http://www.gcbl.org/blog/2015/12/midwest-cities-could-be-first-to-meet-climate-pact>
- Dec. 14, 2015 "Neighborhood Progress tackling climate resilience with grant money" by Karin Connelly for Fresh Water: <http://www.freshwatercleveland.com/innovationnews/CNPgrant121415.aspx>
- Sept. 30, 2015 "The smart, quirky trappings of a contemporary solar house" by Charlotte Hsu for the UB News Center: <http://www.buffalo.edu/news/releases/2015/09/054.html>
- May 21, 2015 "Extreme weather events mean future will look different" by Allen Best for Pique Magazine: <http://www.piquenewsmagazine.com/whistler/extreme-weather-events-mean-future-will-look-different/Content?oid=2656026>
- July 30, 2015 "Ultra-efficient UB GRoW Home a model for the future" by Chris Caya for WBFO 88.7. <http://news.wbfo.org/post/ultra-efficient-ub-grow-home-model-future#stream/0>

10. Public Lectures and/or Conference Presentations

10.1 Invited Presentations

- 2020 May: "Reimagining New York, Health, and Wellness in the Built Environment" for an AIA New York State and Center for Architecture webinar on architectural responses to the COVID-19 pandemic.
- 2019 August: "Adapting Buildings to a Changing Climate" for NYSERDA energy efficiency program staff and invited guests in Albany, NY.
May: "Impact of Climate Change on Buildings and Resilience Strategies" for the ASHRAE Niagara Frontier Chapter Professional Development Seminar in Tonawanda, NY.
- 2018 August: "Top-down, bottom-up, or middle-out? Adaptive approaches to a changing climate" for the UB Department of Art Antipodal Intent Symposium in Amherst, NY.
June: "Climate Change Readiness" at the AIA Conference on Architecture 2018 in New York, NY.
May: "Resilient Buildings: Combining Climate Change Mitigation and Adaptation" with Alex Wilson for the 2018 Local Solutions: Eastern Climate Preparedness Conference in Manchester, NH.
- 2017 November: "Cultivating Climate-Related Resilience" for the Inside Science Lecture Series for the Cleveland Museum of Natural History, Cleveland, OH.
November: "Resilient Cleveland: Health Care's Role in Anchoring Climate Resilience" for the Healthcare Without Harm Summit, Cleveland, OH.
October: "Design With (a Changing) Climate" for CannonDesign, Grand Island, NY.
September: "Vacancy and Climate Resilience" with Terry Schwarz for the Western Reserve Land Conservancy 7th Annual Ohio Land Bank Conference, Cleveland, OH.
June: "A Discussion Panel on Green Architecture" moderated by Marcus Marino, with Michael Phinney and Jennifer Preston for AIA New York State, Albany, NY. <https://youtu.be/XbGPpo6QUjw>
March: "Resilience Panel" moderated by Silda Wall Spitzer, with Thomas Knittel, Terry Brennon, Tedd Benson, and Frank Dixon for the 15th Annual New York State Green Building Conference, Syracuse, NY.
February: "A Discussion Panel on Resilient Design" moderated by Illya Azaroff, with Don Watson, Claire Weisz, and Deane Evans for AIA New York State, Albany, NY. <https://youtu.be/xhSaGcVh-Mg>
- 2016 April: "How One Man on a 75-Pound Bicycle Took a City's Temperature" for the Volume 16 PechaKucha in Buffalo, NY. <http://www.pechakucha.org/presentations/how-one-man-on-a-75-pound-bicycle-took-a-citys-temperature>. ("PechaKucha of the Day" on PechaKucha International Website, June 2016)
March: "University at Buffalo Solar Decathlon Mechanical Systems" with Martha Bohm, Pranav Hardas, and Michael Tuzzo for the Niagara Frontier Chapter of ASHRAE, Amherst, NY.
March: "Cultivating Climate-Related Resilience" for the Kent State University Department of Geography Colloquium, Kent, OH.
February: "University at Buffalo Solar Decathlon" with Martha Bohm, Pranav Hardas, and Michael Tuzzo for the Erie-Niagara Chapter of the New York State Society of Professional Engineers for its Engineering Week Celebration, Depew, NY.
- 2015 December: "Designing the Resilient City" for the Kent State University College of Architecture and Environmental Design Cleveland Urban Design Collaborative Lecture Series, Cleveland, OH.
November: "Design in a Changing Climate" for the Roger Williams University School of Architecture, Art and Historic Preservation Sustainability Symposium, Bristol, RI.
September: "Trees and Climate Resilience" with Terry Schwarz for the Sustainable Cleveland Summit, Cleveland, OH.
August: "Merging Mitigation and Adaptation" for an Urban Sustainability Directors Network Webinar.
May: "An Overview of Climate Change and Buildings" for the Metcalf Institute's Climate Change and the News Seminar, St. Louis, MO. <https://youtu.be/y8sNExZM-QM>.
April: "Fundamentals for a More Sustainable Future" with Robert Shibley, Laurie Stillwell, Jessica Kozlowski-Russell, and David Hahn Baker, Buffalo, NY. <https://youtu.be/0hjM4cHGHds>.
March: "Is it 'Hot in Cleveland'? Engaging residential energy efficiency programs to reduce heat-related morbidity and mortality" for the UB Global Health Initiatives Seminar Series, Buffalo, NY. <https://youtu.be/ACxc3TSPLJ8>.

10.2 Other Public Lectures and/or Conference Presentations (without a published paper)

- 2019 May: "Modeling the Impacts of Climate Change on Buildings in New York State" for a USGBC New York Upstate webinar: <https://www.youtube.com/watch?v=aFTooXu3C88>.
- May: "Climate Resilience Strategies for Buildings in New York State, Part 2" for a USGBC New York Upstate webinar: <https://www.youtube.com/watch?v=5YLDOvh27OU>.
- April: "Climate Resilience Strategies for Buildings in New York State, Part 1" for a USGBC New York Upstate webinar: <https://www.youtube.com/watch?v=h1IErxMMTOK>.
- April: "Regional Costs of Climate-Related Hazards for the New York State Building Sector" for a USGBC New York Upstate webinar: <https://www.youtube.com/watch?v=F9J3u8WasTU>.
- April: "Climate Hazards" for a USGBC New York Upstate webinar: https://www.youtube.com/watch?v=Zoe_vpGgEhU.
- April: "A Climate Resilience Primer" for a USGBC New York Upstate webinar: <https://www.youtube.com/watch?v=KlxzByUB7WU>.
- 2018 April: "Adapting Buildings to a Changing Climate" for the 16th Annual New York State Green Building Conference at SUNY-ESF, Syracuse, NY.
- 2017 March: "NYSERDA Climate Resilience for Buildings Study" for the 15th Annual New York State Green Building Conference at SUNY-ESF, Syracuse, NY.
- 2016 August: "Climate Change Impacts on the Buildings Sector of New York State" for the Columbia University North American Symposium on Climate Change Adaptation, New York, NY.
- April: "The Second Place University at Buffalo Solar Decathlon Project" with Michael Tuzzo and "Preparing Buildings for Climate Change in New York State" with Yasmein Okour and Michael Tuzzo for the 14th Annual New York State Green Building Conference at SUNY-ESF, Syracuse, NY.
- 2015 June: "Reaching Across the Aisle: Collaborations Between Planning and Architecture" at the Society of Building Science Educators Retreat, Highlands, NC.
- May: "Design With (Which) Climate(?)" with Alison G. Kwok and "Building Adaptive Capacity into Buildings" for the National Adaptation Forum, St. Louis, MO.
- April: "An Overview of Climate Change in Cleveland" for Cleveland Neighborhood Progress Climate Resilience Community Forums, Cleveland, OH. <https://youtu.be/EuJRkPXaKdY>.
- 2014 October: "A Bicycle-Based Field Measurement System for the Study of the Urban Canopy Layer in Cuyahoga County, Ohio" at the 20th International Congress of Biometeorology, Cleveland, OH.

10.3 Symposia and Conference Panels Organized

- 2019 November: Program Advisory Committee for Building Resilience 2019 conference in Cleveland, OH. <https://buildingresilience.living-future.org/>
- 2018 October: Organizer of "Adapting Buildings for a Changing Climate" in Albany, NY. https://projects.erg.com/conferences/nyserda/docs/2018-08-02_ClimateAdaptationSymposium_DRAFT.pdf
- August: Co-organizer of panel "Unstately: Bottom-up and Middle-out Practices" with Gregory Delaney, Joyce Hwang, Julia Jamrozik, Camden Miller, Erkin Özay, and Kerry Traynor at the U.S. Pavilion at the 16th Biennale Architettura in Venice, Italy. <http://dimensionsofcitizenship.org/events/unstately-bottom-up-and-middle-out-practices/>
- 2016 November: Organizer of "From Sandy to Snowvember: Climate Change and Buildings in New York State Symposium" at the University at Buffalo, Buffalo, NY. <https://www.youtube.com/playlist?list=PLca1RFm36G95L5Ap8eR2DpWbnJFTQDppH>

11. Teaching

11.1 Teaching: As Primary Instructor or Co-Instructor

University at Buffalo Department of Architecture/Department of Urban and Regional Planning

Spring 2021	ARC 606: Urban Design Graduate Research Group Studio SSN 601: Sustainability Professional Skills Capstone
Fall 2020	ARC 605: Ecological Practices Graduate Research Group Studio ARC 241/541: Introduction to Environmental Systems (w/ Nathaniel Heckman)
Spring 2020	ARC 302: Comprehensive Design Studio (Coordinator) SSN 601: Sustainability Professional Skills Capstone
Fall 2019	ARC 241/541: Introduction to Environmental Systems ARC 545: "Sensing Silo City" Ecological Practices Technical Methods
Spring 2019	ARC 302: Comprehensive Design Studio (Coordinator)
Fall 2018	ARC 241/541: Introduction to Environmental Systems ARC 545: "From Near to Remote Sensing" Ecological Practices Technical Methods
Fall 2017	ARC 605: Ecological Practices/Urban Design Studio (with Erkin Özay) ARC 241/541: Introduction to Building Technology ARC 544: Building Technology Systems (M.S. in Real Estate Development Program)
Spring 2017	ARC 302: Comprehensive Design Studio
Fall 2016	ARC 589: "Reweaving Ecologies" Ecological Practices/Urban Design Technical Methods ARC 241/541: Introduction to Building Technology ARC 544: Building Technology Systems (M.S. in Real Estate Development Program)
Spring 2016	ARC 521: "Realizing Resilience" Ecological Practices/Urban Design Technical Methods
Fall 2015	ARC 241/541: Introduction to Building Technology ARC 605/609 & URP 580: Ecological Practices Graduate Research Group Studio
Spring 2015	ARC 596: Performance Pieces Furniture Seminar ARC 548: Solar Decathlon Building Project (with Martha Bohm, Brad Wales, & Ken MacKay)
Fall 2014	ARC 241/541: Introduction to Building Technology

Cornell University Department of Architecture

Summer 2006	ARCH 464: Solar Decathlon Working Drawings ARCH 401/402/501: Small House Summer Design Studio (with Arthur Ovaska)
Spring 2006	ARCH 362/662: Mechanical and Passive Solar Systems ARCH 502: Undergraduate Thesis Advising ARCH 301/302: Solar Decathlon Design Studio (with Jerry Wells)
Fall 2005	ARCH 361/661: Lighting and Acoustics ARCH 401/402/501: Aluminum House Studio (with Hiromi Hosoya)
Summer 2005	ARCH 464: Solar Decathlon Construction ARCH 459: Special Topics in Visual Representation (Europe Program) ARCH 464: Case Studies of Design Integration (Europe Program) ARCH 474: Special Investigations in Environmental Control (Europe Program)
Spring 2005	ARCH 362/662: Mechanical and Passive Solar Systems ARCH 464: Light and Space Academy (with Julle Oksanen and Hannu Tikka)
Fall 2004	ARCH 361/661: Lighting and Acoustics ARCH 464: Case Studies of Sustainable Design

11.2 Teaching: Graduate Student Thesis or Dissertation Committees

University at Buffalo Master of Architecture Program

- Heather Leslie, “Architecture for the Collective: The Development of a Place of Refuge within an Anthropocentric Vacuum,” Committee Member, 2021.
- Elizabeth K. Gilman, “Extreme Ecological Narratives: Revealing How Arctic Changes Will Critically Impact Realities of Future Cities,” Chair, 2020.
- Ashley Chiffy, “Rethinking Lynch: Using Mobile Technology for Urban Exploration,” Chair, 2020.
- T. J. Mulligan, “Up a Sewage-Laden River Without a Paddle: Architect as an Integrator,” Chair, 2018.
- Michael Tuzzo (Dual M. Arch/MUP Thesis), “Environment, Equity, or Economic Development? Reconnecting Planning and Design Priorities in Buffalo Neighborhoods,” Chair, 2016-17.
- Nathan St. John, “Liminal Urban Spaces: Addressing Temporal Vacancy through Ecological Intervention Typologies,” Committee Member, 2016-17.

University at Buffalo Urban and Regional Planning PhD Program

- Yasmein Okour, “Understanding the Transportation Experiences of Refugees: A Case Study of Iraqi and Syrian Refugees in Buffalo, NY,” PhD Dissertation Committee Chair, 2015-2019.
- Subhashni Raj, “Managing Change: Planning for the Food-Water-Land Nexus in Complex and Changing Socio-Ecological Systems,” PhD Dissertation Committee Member, 2015-2018.
- Smitha Gopalakrishnan, Independent Study Advisor, 2016.

University at Buffalo Master of Urban Planning Program

- Emily Gibson, “Analyzing Perspectives on the Net Energy Metering Debate in California,” 2015.
- Travis Gordon, “Planning for the Development of Natural Gas Transmission Pipeline Infrastructure,” 2015.

University at Buffalo Master of Arts in Sustainability Leadership

- Britney-Bay Croyle, Rachel Anne Saloom, and Allison DeMaria, “Reframing and Realizing Sustainability and Environmental Justice in Western New York: A Case Study of Community Organizations,” 2021.

11.3 Teaching: Independent Studies

University at Buffalo

- Mitchel Mesi, “Electric Lighting Study for Silo City,” Spring 2021.
- Elizabeth Gilman, “Construction of Willow Way,” Fall 2020.
- Adara Zullo, “Cost Study for the Buffalo Erie Niagara Land Improvement Corporation House,” Fall 2019.
- Devir Gesell, “Energy Management Study for University at Buffalo Facilities,” Fall 2018.
- Kelley Mosher and Taylor Woolf, “Climate Action Plan for Buffalo, New York,” Fall 2017.
- Peter Urban, “Repurposing Abandoned Homes as Greenhouses,” Spring 2017.
- Taylor Woolf, “A Climate Resilient Cooling Center for Cleveland, Ohio,” Spring 2017.
- Nathan St. John, “Climate Resilient Siting of the University at Buffalo GRoW Home,” Spring 2017.
- Matthew Straub, “Climate Resilience Guide for Buffalo, New York,” Spring 2017.
- Elizabeth Gilman and Michael Paraszczak, “Designing a Tiny Home,” Fall 2016.
- William Pople, “Clean Energy Communities in Western New York,” Fall 2016.
- Yasmein Okour, “Transportation Equity and Refugee Populations,” Fall 2016.
- George Behn, “Energy and Environmental Modeling Software,” Spring 2016.
- Joseph Tuberdyck, “Solar Decathlon Mechanical System,” Spring 2015.
- Subhashni Raj, “Climate Change and Urban Agriculture,” Spring 2015.

11.4 Teaching: Awards for Students under My Supervision

University at Buffalo

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| 2017 | Samira Sheikholeslami, Cansu Donmez, and Haithem Daza awarded “Best Poster” at the 15th Annual New York State Green Building Conference at SUNY-ESF for their daylighting project. |
| 2016 | John Costello and Nathan St. John presented with an AIA New York State Student Award for their design project, “E 1025.” |
| 2015 | Emily Gibson awarded “Best Thesis” by the faculty of the Urban and Regional Planning program. |

12. Service

12.1 Service: University

University at Buffalo:

- Director of Graduate Studies for School of Architecture and Planning dual-degree program, 2020—.
- Sustainability Certificate/M.A. in Sustainability Leadership Curriculum Committee, 2017—.
- Faculty Affiliate of the UB Regional Institute, 2014—.
- Co-Chair of the School of Architecture and Planning Faculty Development and Scholarly Impacts Strategic Plan Subcommittee, 2017.
- Department of Architecture Technology Curriculum Committee, 2017-2018.
- School of Architecture and Planning Urban Planning Chair Search Committee, 2017.
- Department of Architecture Graduate Admissions Committee, 2015-2018.
- Department of Architecture Solar Decathlon Faculty Advisory Committee, 2014-2015.
- Faculty Affiliate of the Research and Education in eNergy, Environment and Water (RENEW) Institute at the University at Buffalo, 2014-2018.
- Department of Architecture Peter Reyner Banham Fellowship search committee, 2016, 2019.
- School of Architecture and Planning environmental planning faculty search committee, 2014-2016.

University of Michigan:

- Co-founder and editor-in-chief of the *Michigan Journal of Sustainability*, 2012 – 2014.
- Urban and Regional Planning “Sustainability and Behavior” search committee, 2012 – 2013.
- Urban and Regional Planning PhD Program Review Committee, 2012.

Cornell University:

- Green Building Oversight Committee at Cornell University, 2005 – 2006.
- Graduate admissions committee for the Department of Architecture, 2005.
- Curriculum committee for the Department of Architecture, 2005 – 2006.
- Undergraduate admissions committee for the Department of Architecture, 2004 – 2005.

12.2 Service: Professional

American Institute of Architects, 2002—.

- Appointed to the national Resilience and Adaptation Advisory Group, 2020.
- Reviewer for the Resilience and Adaptation Online Certification Program, 2017-2019.
- Appointed to the national Resilience and Adaptation Education Working Group, 2017.
- Invited contributor to the Resilience Curriculum Workshop, 2016.
- Chair of the San Francisco Committee on the Environment (COTE), 2007–2009.
- Chair of the Eastern New York Committee on the Environment (COTE), 2002–2005.

United States Green Building Council, 2002—.

- Appointed to the national Resilience Steering Committee, tasked with adapting the RELi Rating System as a global platform for resilience, 2017-2020.
- Appointed to the national Resilience Working Group, 2016-2017.
- Appointed to the national Climate Adaptation Working Group, 2010–2012.
- Appointed to the national Core Concepts Guide Development Task Force, 2009–2010.
- Elected Member of the national LEED Curriculum Committee, 2006–2009.
- Elected Member of the national Education Steering Committee, 2006–2008.
- Founding member and member of the Board of Managers of the New York, Upstate Chapter, 2002–2006.

American Society of Heating Refrigeration and Air Conditioning Engineers, 1997 – 2008; 2014—

- UB Student Branch Advisor, 2015—.
- Appointed member of the national Epidemic Task Force, 2020.
- Student Activities Chair for the ASHRAE Niagara Frontier Chapter, 2019-2020.
- Member, T. C. 1.5—Computer Applications: January 2005 –2007.
- Member, T. C. 2.1—Physiology & Human Environment: January 2005–2007.
- Member, Standard 55 Project Committee, 2002– 2007.

Society of Building Science Educators (SBSE), 2000—.

- Retreat Scholarship Committee, 2013-2015.

Environmental Business Association of New York State, Inc., 2002 – 2005.

- Co-chair of the Green Building Task Force: 2003 – 2004.

12.3 Service: Community

- People United for Sustainable Housing (PUSH) Buffalo consultant to the workforce education center, 2019—.
- PUSH Buffalo passive house (“778 House”) prototype development, 2019-2020.

12.4 Service: Guest Critic/Discussant

- Guest Critic, Carnegie Mellon University Graduate Architecture Program (for Laura Garofalo Khan), Fall 2020.
- Guest Critic, University of Hartford Graduate Architecture Program (for Seth Holmes), Fall 2020.
- Faculty Advisor, National Aeronautics and Space Administration (NASA) DEVELOP Program for a solar energy mapping study for Cuyahoga County and Cleveland, 2019. (<https://develop.larc.nasa.gov/>)
- Guest Critic, Midwest Urban Design Charrette (with Kent State University and Lawrence Technological University, for the Toledo Design Center, Fall 2018.
- Guest Critic, Kent State University Undergraduate Architecture Program (for Scott Lukens), Fall 2017.
- Guest Critic, Kent State University Undergraduate Architecture Program (for Charles Harker), Fall 2017.
- Guest Critic, Kent State University Master of Architecture Program (for Peter Marks), Spring 2017.
- Guest Discussant, Kent State University Master of Architecture Program (for Adil Sharag-Eldin), Spring 2016.
- Guest Critic, Kent State University Master of Urban Design Program (for Jonathan Kurtz), Spring 2015.
- Guest Critic, Cornell University Bachelor of Architecture Program (for Arthur Ovaska), Fall 2014.
- Guest Lecturer, University of Michigan Architecture Program (for Maria Arquero and Jen Maigret), Fall 2014.
- Guest Critic, U.C. Berkeley College of Environmental Design Master of Architecture Program (for Cris Benton, Gail Brager, Nezar Alsayyad, Edward Arens, and Mui Ho), 2006 – 2009.
- Guest Critic, California College of the Arts, Master of Architecture Program (for Robert Marcial, Ryan Stroupe, and Kathrina Simonen), 2006 – 2007.

12.5 Service: Book, Paper, and Journal Article Reviews

- Book proposal reviewer, Routledge Planning and Urban Design, 2018.
- Reviewer for *Sustainability: The Journal of Record* and the *International Journal of Biometeorology*, 2017.
- Paper reviewer for Urban Transitions Global Summit, Shanghai, China, 2016.
- Paper reviewer for 103rd ACSA Annual Meeting, Toronto, Ontario, Canada, 2014.
- Reviewer for *Building Research & Information* and *Journal of Architectural Education*, 2014-2016.
- Abstract/Paper Reviewer for the ASHRAE/International Building Performance Simulation Association (IBPSA) USA Building Simulation Conference, Salt Lake City, Utah, 2015.
- Paper reviewer for the journal *Applied Thermal Engineering*, 2010.
- Paper reviewer for American Council for an Energy-Efficient Economy (ACEEE) Summer Study on Energy Efficiency in Buildings, Pacific Grove, California, 2010.
- Book proposal reviewer, Island Press, 2008 – 2009.
- Book proposal reviewer, John Wiley and Sons, Inc., 2005 – 2007.
- Book proposal reviewer, Architectural Press, 2006.
- Paper reviewer for journal *Building and Environment*, 2004.
- Technical reviewer for book “Natural Ventilation in Northwest Buildings,” published by the Northwest Energy Efficiency Alliance, 2004.

12.6 Service: Other

- Director of North American Operations for the “Light and Space Academy” in association with the Tampere University of Technology, Finland, 2004-2013.
- Jury, U. C. Berkeley Center for the Built Environment Livable Buildings Award, 2007.