CHRISTINA M. K. KAUNZINGER

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Office of Agriculture and Urban Programs in the Department of Landscape Architecture
and
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EDUCATION

Ph.D.	Rutgers University, New Brunswick, NJ, 2000 Program in Ecology and Evolution
B.A.*, summa cum laude*	Drew University, Madison, NJ, 1989 Major in Biology, minors in Chemistry & French

HONORS

HUD/Rebuild by Design -The BIG U

- ASLA Honor Award in Analysis and Planning, 2016
- AIA National Honor Award for Regional & Urban Design, 2015
- AIA NY Chapter Design Award, Urban Design Merit Award, 2015
- APA National Planning Awards, National Planning Excellence Award for Urban Design, 2015
- Architizer A+ Awards, Masterplan Jury Winner, 2015
- Global Holcim Awards for Sustainable Construction, Bronze, 2015
- Holcim Awards Innovation Taskforce, 2015
- NY Planning Federation Awards, Winner (Rebuild by Design), 2015
- Architizer A+ Awards, Finalist, 2015
- ASLA NY Chapter Design Award, Honor Award, 2015
- MIPIM AR Future Award, Big Urban Projects, 2015
- Holcim Silver Award in North America, 2014
- APA NY Metro Chapter, William H. Whyte Award for Creativity & Ingenuity in Planning, 2014
- AIA NY Chapter Honors Awards, Community Development Award (Rebuild by Design), 2014
- Winner of $335M HUD Hurricane Sandy disaster recovery funding for NYC, 2014
  Collaborators: BIG (team lead), One Architecture, Starr Whitehouse, Buro Happold, Level Infrastructure, Arcadis, James Lima Planning & Development, AEA Consulting, Project Projects, and the School of Constructed Environments at Parsons The New School

Duke Farms, Hillsborough, NJ
- ASLA NJ Chapter Merit Award for Landscape Architectural Communications, 2015
  Collaborators: Duke Farms, Whirlwind Creative

Shore Parkway, NYC
- The People's Choice Award. Mid-Atlantic Chapter of the Society for Restoration Ecology Poster Competition, 2014
  Collaborators: W-Architecture & Landscape Architecture (team lead) and NYC Parks

Graduate
- NSF Doctoral Dissertation Improvement Grant, 1996
  (Dissertation Advisor: Peter J. Morin)
- Induction into Gamma Sigma Delta, Honor Society of Agriculture, 1991

Undergraduate
- Anna-Lisa Barofsky Prize in Biology for honors thesis research, Drew University, 1989
  (Thesis Advisor: Sara L. Webb)
- Election to Phi Beta Kappa, 1988
- Drew Scholar Academic Scholarship,1985-1989

EMPLOYMENT

Assistant Research Professor 2016-present	Department of Landscape Architecture Rutgers University, New Brunswick, NJ
Senior Research Manager 2008-2016	Center for Urban Restoration Ecology Rutgers University, New Brunswick, NJ (Supervisor: Prof. Steven N. Handel)
Adjunct Assistant Professor Spring 2016	Ecology Critic for Integrated Design: Urban Scale Graduate School of Architecture, Planning and Preservation Columbia University, New York, NY (Course instructors: Byron Stigge & Craig Schwitter)
Adjunct Lecturer 2005-2007	Plant Ecology, Fall 2005, 2006, 2007 Vertebrate Zoology, Spring 2006 Department of Ecology, Evolution & Natural Resources Rutgers University, New Brunswick, NJ
Postdoctoral Research Associate 2000-2003	Department of Ecology, Evolution & Natural Resources Rutgers University, New Brunswick, NJ (Supervisor: Prof. Peter J. Morin)

Project Coordinator 2003	Departmental Self-Study for External Review Department of Ecology, Evolution & Natural Resources Rutgers University, New Brunswick, NJ (Supervisor: Prof. Michael V. K. Sukhdeo)
Adjunct Lecturer 2003	General Biology (Ecology & Evolution lectures), Spring 2003 Division of Life Sciences/Biological Sciences Rutgers University, Piscataway, NJ
Adjunct Assistant Professor August 2000	Research Project in Painted Turtle Demography NJ Governor's School in the Sciences @ Drew University, Madison, NJ
Adjunct Lecturer 1998, 2000	Community Ecology, Fall 2000 Forest Ecology, Fall 1998 Biology Department Drew University, Madison, NJ
Adjunct Lecturer 1998	Evolution, Spring 1998 Department of Biology Monmouth University, West Long Branch, NJ
Graduate Assistant Spring 1996	Graduate Program in Ecology & Evolution (Supervisors: Profs Peter J. Morin and Timothy M. Casey)
Teaching Assistant 1991-1995	Marine Ecology Laboratory Fall 1993-1995 (w/Robert Loveland) Limnology Laboratory Spring 1993-1995 (w/Peter Morin) Remedial Biology, Fall 1992 (w/Gregg Transue) General Biology Fall 1991, Spring 1992 (w/Kathleen Scott & Diana Martin)

TEACHING IN SUMMER 2017: in collaboration with Prof. Holly Grace Nelson

- Rutgers Golf Course Interns: Base Map; Landscape Sustainability Options
- Independent Study: Blackwells Mills Causeway, Millstone National Scenic Byway

TEACHING IN SPRING 2017: contributed to the following courses

- **Planting Design** (11: 550:340) with Prof. Holly Grace Nelson
- **Praxis Design/Build Studio Spring 2017: Transforming Blighted Housing into Valued Community Environmental Amenities** (11:550:332DB, 11:550:432DB, 16:550:536DB) with Prof. Tobiah Horton
- **New Frontiers in Earth Systems Science** (16:218:501) with Prof. Mark Miller
- **Studio II Urban/Suburban Design** (16:550:532) with Prof. Richard Bartelone

- **Special Problems in Landscape Architecture/Ecological Design and Stewardship** (11:550:437) with Prof. Jean Marie Hartman

BOOK CHAPTERS, PEER-REVIEWED ARTICLES, REPORTS

Technical Work Group convened by the Science and Resilience Institute of Jamaica Bay, A. Dvarskas, J. Fain, P. Groffman, C. Kaunzinger, W. Meyer, J. Miller, A. Muse and E. Sanderson. 2017. Technical Review of the Waterfront Alliance's Waterfront Edge Design Guidelines Program. Submitted to Waterfront Alliance, NY. 55 pages.

Handel, S. N., J. Epiphan, and C. M. K. Kaunzinger. 2017. Ecological input for design of the sports field complex at Freshkills South Park. Submitted to Starr Whitehouse Landscape Architects and Planners, PLLC. 12 pages.

Handel, S. N., C. M. K. Kaunzinger, M. F. J. Aronson, M. S. Meixler and J. Epiphan. Submitted and reviewed 2017, now in revision. Restoration of Jamaica Bay fringing habitats: post-Sandy status and new approaches for a resilient future. Department of the Interior, National Park Service. 157 pages.

Handel, S. N., J. Marra, C. M. K. Kaunzinger, V. M. Bricelj, J. Burger, R. L. Burke, M. Camhi, C. P. Colon, O. P. Jensen, J. LaBelle, H. C. Rosenbaum, E. W. Sanderson, M. D. Schlesinger, J. R. Waldman, and C. B. Zarnoch. 2016. History, Status and Resilience of Jamaica Bay's Plants, Animals and Ecosystems. Pages 91-116 in *Prospects for Resilience: Insights from New York City's Jamaica Bay*. E. W. Sanderson, W. D. Solecki, J. R. Waldman and A. S. Parris, editors. Island Press, Washington D.C.

Handel, S. N. and C. M. K. Kaunzinger. 2016. Case study: Jamaica Bay Fringing vegetation: restoring upland habitats at an urban shoreline. Pages 85-102 in *Coastal Change, Ocean Conservation and Resilient Communities*. M. Johnson and A. Bayley, editors. Springer, Cham, Switzerland.

Bjarke Ingels Group, One Architecture, Starr Whitehouse, James Lima Planning and Development, Level Infrastructure, Burro Happold, Arcadis, Green Shield Ecology and AEA Consulting. 2015. The BIG U. Pages 66-81 in *Rebuild By Design*. J. Bisker, A. Chester, and T. Eisenberg, editors. Rebuild By Design, NY [C.M.K. Kaunzinger is the author from Green Shield Ecology].

Handel, S.N., C.M.K. Kaunzinger, L.R. Johnson, K. Corrigan, and T. Young. 2013. Shore Parkway, Brooklyn Ecological Assessment. City of New York Dept. of Parks and Recreation. 118 pages.

Handel, S.N., and C.M.K. Kaunzinger. 2012. Fernbank Museum of Natural History Ecological Assessment of the Museum Lands. Atlanta, GA. 37 pages.

Handel, S.N., and C.M.K. Kaunzinger. 2012. Fernbank Museum of Natural History Forest Stewardship Plan. Atlanta, GA. 123 pages.

Handel, S. N. and C. M. K. Kaunzinger. 2009. Ants aren't your enemy. Fine Gardening Magazine 130:26-27.

Webb, S. L., M. Dwyer, C. K. Kaunzinger, and P. H. Wyckoff. 2000. The myth of the resilient forest: case study of the invasive Norway maple (*Acer platanoides*). Rhodora 102:332-354.

Kaunzinger, C. M. K. and P. J. Morin. 1998. Productivity controls food chain properties in microbial communities. Nature 395:495-497.

Morin, P. J., C. M. K. Kaunzinger, L. M. Kurzava, M. S. Laska, P. A. McMillan, and E. M. Obee. 1993. Foundations of our discipline. Ecology 74:273-274.

Webb, S. L. and C. K. Kaunzinger. 1993. Biological invasion of the Drew University (New Jersey) Forest Preserve by Norway maple (*Acer platanoides* L.). Bull. Torrey Bot. Club 120:343-349.

PROFESSIONAL CONFERENCE PRESENTATIONS and POSTERS

Kaunzinger, C. M. K. 2016. Panelist for Education Session. Designing Campus Landscapes for Enhanced Educational Value. American Society of Landscape Architects annual meeting, New Orleans, LA

Kaunzinger, C. M. K., S. N. Handel, M. F. J. Aronson, M. S. Meixler, J. Gurevitch, H. M. Forgione, and J. Epiphan. 2016. Resilience of urban coastal fringing habitats to storms and sea level rise. 5th International EcoSummit, Montpellier, France

Geretz, Eliana S.*, Carmela M. Buono*, Christina M. K. Kaunzinger, and Steven N. Handel. 2016. Chestnut restoration in Northeastern forest gaps: experimental plantings to advance forest structure and restoration ecology practice. Mid-Atlantic Chapter of the Ecological Society of America annual meeting, Kutztown, PA

Epiphan Jean N., Thomas Hopper*, Eliana S. Geretz*, Alexis Kleinbeck*, Christina M. K. Kaunzinger, Marci S. Meixler, Myla F. J. Aronson, and Steven N. Handel. 2016. Resilience of coastal vegetation to Hurricane Sandy: damage mapping and vegetation response to determine restoration priorities. Mid-Atlantic Chapter of the Society for Ecological Restoration annual meeting, Galloway, NJ

Kaunzinger, C. M. K. 2014. Panelist for Education Session. Coastal Integration: Landscape Architecture, Ecology,and Sea Level Rise). American Society of Landscape Architects annual meeting, Denver, CO

Kaunzinger, C. M. K. and S. N. Handel. 2014. Ecological and administrative constraints to restoring coastal habitats along Jamaica Bay, NYC (Symposium. Integrating Ecological Restoration Projects into a Regional Framework). Conference on Ecological and Ecosystem Restoration (CEER), New Orleans, LA

Handel, S. N., C. M. K. Kaunzinger, L. R. Johnson, T. J. Young*, K. P. Corrigan* and W Architecture and Landscape Architecture. 2014. Restoration and resilience-building in an infrastructure improvement project along Jamaica Bay, NYC: making lemonade. Mid-Atlantic Chapter of the Society for Ecological Restoration annual meeting, Ambler, PA

Kaunzinger, C. M. K. and S. N. Handel. 2013. Piedmont forest restoration at Fernbank Museum of Natural History in metropolitan Atlanta (Symposium. Designing urban habitats: integrating landscape architecture perspectives into restoration practice). 5th World Conference on Ecological Restoration, Society of Ecological Restoration, Madison, WI

Kaunzinger, C. M. K. and S. N. Handel. 2012. Potential and ecological value of restoring degraded and isolated urban habitats (Symposium. Protecting and restoring severely degraded terrestrial ecosystems). 4th International EcoSummit, Columbus, OH

Kaunzinger, C., S. Handel and B. Hillman. 2009. Chestnut restoration in forest gaps, Duke Farms, Hillsborough, NJ. USDA NIFA Biological Improvement of Chestnut through Technologies that Address Management of the Species, its Pathogens and Pests annual meeting. Ocean Grove, NJ

Kaunzinger, C. M. K., Z. T. Long, M. H. H. Stevens, and P. J. Morin. 2002. Community closure: species fail to re-establish following local extinctions. Ecological Society of America annual meeting. Tucson, AZ

Morin, P. J., J. McGrady-Steed, and C. M. K. Kaunzinger. 2001. Contributions of micro-organisms to general ecological theories – experimental studies of complexity in microbial communitites. 9th International Symposium on Microbial Ecology, Amsterdam, the Netherlands

Morin, P. J., S. Lawler, M. Holyoak, and C. M. K. Kaunzinger. 1998. The use of model systems in ecology. INTECOL, Florence, Italy.

Kaunzinger, C. K. 1997. The effect of food chain heterogeneity on trophic level response to increased productivity. Ecological Society of America annual meeting. Albuquerque, NM

Kaunzinger, C. K. and P. J. Morin. 1996. Effects of productivity on species abundances at different trophic levels: an experimental study in microbial microcosms. Ecological Society of America annual meeting. Providence, RI

Kaunzinger, C. M. K., S. L. Webb, and A. M. Petrone. 1993. Norway maple as biological invader of a beech-sugar maple-oak forest. Ecological Society of America annual meeting. Madison, WI

* undergraduate or graduate student

GUEST LECTURES and other PROFESSIONAL & PUBLIC SERVICE

2014-present. Executive Council. Science and Resilience Institute at Jamaica Bay.

2016-present. Advisory Council. NOAA-COCA grant "Incorporating Interactive Visions and Bioeconomic Values of Ecosystem Services into Climate Adaptation: An Example from Jamaica Bay, Brooklyn / Queens, New York City", November 2016-present.

2017. Technical Review Workgroup. Waterfront Edge Design Guidelines, Waterfront Alliance, New York, NY.

2017. (Urban) ecology for architects. A4115-1 AT V Urban Systems Integration, Graduate School of Architecture, Planning and Preservation, Columbia University, New York, NY. Course Instructor: Craig Schwitter

2017. Rutgers Institute of Earth, Ocean, and Atmospheric Sciences Post-Doctoral Proposal Review Panel.

2017. Workshop Participant (invited). Natural and Nature Based Features Monitoring Workshop.

2017. Faculty Leader. Rutgers Scarlet Day of Service (invasive plant removal at IFNH meadow)

2017. Table Facilitator. RU Sustainable? Conference.

2016. Ecology critic for Final Review, GSD 1211 Master of Landscape Architecture Core Studio III Fall 2016: The Adaptive City: Constructing urbanity through shifting landscapes. Graduate School of Design, Harvard University, Cambridge, MA. Course Coordinator: Sergio Lopez-Pineiro

2016. Co-chair of Ecological Studies Session, State of the Bay Symposium hosted by the Science and Resilience Institute at Jamaica Bay.

2016. Science and Resilience Institute at Jamaica Bay Proposal Review Panel: Fellowship and Internship Program.

2016. Presentation on restoration of Jamaica Bay fringing habitats for the Environmental Reporting course field trip to the Jamaica Bay Wildlife Refuge. Science, Health and Environmental Reporting Program, Arthur L. Carter Journalism Institute, New York University. Course Instructor: Dan Fagin

2016. NOAA - Climate Program Office - Coastal and Ocean Climate Applications (COCA) Proposal Peer Review Panel: Ecosystem Services for a Resilient Coast in a Changing Climate Program Manager: Adrienne Antoine

2015. Ecological aspects of resilience planning. Urban Ecology course, PennDesign Landscape Architecture, University of Pennsylvania, Philadelphia, PA. Course Instructors: Stephanie Carlisle and Nicholas Pevzner

2015. Ecology Critic for Final Review, Summer Design Studio 6: Vertical Option. Pratt Institute, Brooklyn, NY. Course Instructor: Philip Parker

2015. Restoration, research & design to enhance resilience of coastal habitats. Restoration Ecology course, Drew University, Madison, NJ. Course Instructor: Sara Webb

2015. Biotechnology High School Career Day, Freehold, NJ

2015. Ecology Critic for Studio Sulan Kolatan and Robert Cervellione: The Geometry of Green, PennDesign Architecture, University of Pennsylvania, Philadelphia, PA.

2014. Panelist for Session II: Research on Sustainable Urban Coasts. Sustainable Coasts in the Urban Northeast Workshop, Stevens Institute of Technology, Hoboken, NJ

2011. Duke Farms: from estate park to Center for Land Stewardship and Sustainability. Great Ecology, Inc., New York, NY.

Kaunzinger, C. M. K.* and S. N. Handel. 2010. The ecological garden: creating links to nature in your home and community. The Garden Club of America annual meeting. New Brunswick, NJ

GRANT SUPPORT

City of New York, Dept. of Parks and Recreation. Urban restoration ecology: research at Freshkills Park, Staten Island, NY. 2017-2018. ($245,000. Co-PIs: S. N. Handel and C. M. K. Kaunzinger)

USDA-NIFA Multistate Project in Conservation and Management of Plant Genetic Resources. 2008-2017. 2017-2021 ($25,000, Co-PIs: S. N. Handel and C. M. K. Kaunzinger)

Department of the Interior, National Park Service. 2014-2016. Restoration of Jamaica Bay fringing habitats: post-Sandy status and new approaches for a resilient future ($483,000, PI: S. N. Handel, Co-PIs: C. M. K. Kaunzinger, M. F. J. Aronson, M. S. Meixler)

USDA McIntire-Stennis. 2013-2015. Improving forest resilience in response to critical ecological stressors: deer, invasive plant species, and climate change ($60,000, PI: S. N. Handel)

The American Chestnut Foundation. 2012. Chestnut restoration in Northeastern forest gaps: experimental plantings to advance forest structure and restoration ecology practice ($8,850, PI: S. N. Handel, Co-PIs: B. Sanchez-Humanes, C. M. K. Kaunzinger).

Duke Farms Foundation. 2011-2012. Advancing public understanding of ecological services. ($80,500, PI: S. N. Handel)

Duke Farms Foundation. 2010. Ecological education program for Duke Farms ($74,430, PI: S. N. Handel)

Duke Farms Foundation. 2008-2009. Environmental stewardship planning for the Duke Farms property ($120,000, PI: S. N. Handel)

NSF Doctoral Dissertation Improvement Grant. 1996. Effects of productivity on the biomass of different trophic levels: an experimental study in microbial microcosms. DEB – 9623148 ($4,397, Dissertation Advisor: Peter J. Morin).

Anne B. and James H. Leathem Scholarship Fund. 1994. An experimental test of the effects of heterogeneity on food chain theory predictions. ($1,325).

Anne B. and James H. Leathem Scholarship Fund. 1993. An experimental test of the influence of productivity on trophic level number and biomass. ($1,400).

PRESS

Newsroom article on the final project of the LA Planting Design course. Faculty: Holly Nelson and Christina Kaunzinger

SEBS and NJAES Office of Communications. 2017. "Student-Designed IFNH Garden Will Serve as Eye-Catching Living Lab." Newsroom, May 4, 2017. https://sebsnjaesnews.rutgers.edu/2017/05/student-designed-ifnh-garden-will-serve-as-eye-catching-living-lab/.

Rutgers Today video on the meadow and meadow border at the Institute of Food, Nutrition, and Health. Faculty: Jean Marie Hartman, Holly Nelson, Christina Kaunzinger

New Jersey Institute for Food, Nutrition, and Health at Rutgers University. "#DidYouKnow that the meadow out front of the IFNH also serves as an outdoor, living classroom designed to engage with students and the Rutgers University community at large?" Facebook, October 30, 2017. https://www.facebook.com/RutgersIFNH/posts/1488992601186850.

Odom, Jill. 2017. "Landscape Architecture Students Create Living Laboratory at Rutgers." Total Landscape Care, November 9, 2017. https://www.totallandscapecare.com/landscaping/landscape-architecture-students-create-living-laboratory-at-rutgers/.

Rutgers Today. 2017. "Rutgers Outdoor Classroom Engages Landscape Architect Students." Green Industry Pros.Com, November 1, 2017. http://www.greenindustrypros.com/video/12378417/rutgers-outdoor-classroom-engages-landscape-architect-students.

Rutgers Today. "Rutgers Outdoor Classroom Engages Students". YouTube video, 01:56. Posted October 18, 2017. https://www.youtube.com/watch?v=MJIIKs2w2cM.

University Communications and Marketing. 2017. "How Students Benefit When Class Meets Outdoors." Rutgers Today, October 18, 2017. https://news.rutgers.edu/node/101266.

Restoration of American Chestnut trees to North American Forests: Steven Handel and Christina Kaunzinger

NJTV's NJ Today, September 26, 2012, "Ecologists Try to Restore American Chestnut Tree in New Jersey
http://www.njtvonline.org/njtoday/video/ecologists-try-to-restore-american-chestnut-tree-in-new-jersey/

The Star Ledger, September 9, 2012, "N. J. Researchers Trying to Revive American Chestnut Trees"
http://www.nj.com/somerset/index.ssf/2012/09/nj_researchers_trying_to_reviv.html

NBC New York Cable Station (NBC NY nightly news?), August 30, 2012, "Restoring our Chestnut Trees"
http://www.nbcnewyork.com/video/#!/on-air/as-seen-on/Restoring-Our-Chestnut-Trees/168090536

YouTube video created by Whirlwind Creative, Inc. for Duke Farms, posted August 29, 2012, "American Chestnut Research Project – Duke Farms"
http://youtu.be/t1-pKb5bpj8
Wall Street Journal, August 19, 2012, "Hopes for a Chestnut Revival Growing"
http://online.wsj.com/article/SB10000872396390444233104577593571278706402.html

Rutgers Focus (online news letter) August 17, 2012, "Bringing the American Chestnut Tree Back to Life"
http://news.rutgers.edu/focus/issue.2012-07-27.2376140283/article.2012-08-17.2754275170

Rutgers, Department of Ecology, Evolution & Natural Resources website, January 31, 2012, "Restoring American Chestnut Trees to Northeastern Forests",
http://www-rci.rutgers.edu/~deenr/Chestnut_Research_Jan_2012.html

PROFESSIONAL SOCIETY MEMBERSHIPS

Ecological Society of America
Society of Ecological Restoration
New Jersey Native Plant Society
New Jersey Chapter of The Wildlife Society

TECHNICAL SKILLS

Microsoft Word, Excel, PowerPoint, Outlook, Adobe Acrobat Professional
French language, colloquial speaking and reading ability