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## **BETH RAVIT, Ph.D.**

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Co-Director, Center for Urban Environmental Sustainability (CUES)  
Assistant Research Professor  
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### **EDUCATION**

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<b>Rutgers, The State University of New Jersey</b> , New Brunswick, NJ	8/99 – 5/05
Doctoral Program Environmental Science (Ph.D. degree 5/05)	5/01 – 5/05
Master's Program Environmental Science (M.S. degree 5/01)	1/00 – 5/01
<b>Cook College</b> , Dean's List Fall 1999	8/99 – 1/00
<b>Adelphi University</b> , Garden City, NY (B.A.)	9/66 – 6/70

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### **ACADEMIC POSITIONS**

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<b>Rutgers, The State University of New Jersey</b>	2/05 – Present
Associate Member, Rutgers Landscape Architecture Graduate Program	2017
Co-Founder, Co-Director Rutgers Center for Urban Environmental Sustainability (CUES)	2007 - Present
Assistant Research Professor, Dept. of Environmental Sciences	2016 - Present
Instructor, Dept. of Environmental Sciences	7/09 – 12/15
Research Associate, Dept. of Environmental Sciences	8/06 – 6/09
Research Associate, Dept. Biochemistry & Microbiology	4/05 – 7/06
Managing Editor, <i>Soil Science</i>	8/10 - Present
Part time lecturer – Cook College Dept. Biochem. & Microb.	9/05 – 12/05
Part time lecturer – Newark Biol. Sciences Graduate Program	2/05 – 5/05
Founder, Director Rutgers Environmental Research Clinic	2002 – 2007

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### **PROFESSIONAL ORGANIZATIONS**

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Estuarine Research Federation  
National Shellfisheries Association  
Society of Wetland Scientists

## RESEARCH GRANTS

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- Bergen County Grant, Co-PI (2016-2017) (\$364,800)  
PI: Wolfram Hoefer  
*Bergen County Park System Master Planning*
- NIEHS CEED grant through Rutgers Center for Environmental Exposures and Disease,  
Co-PI. (2016) (\$15,000)  
PI: Keith Cooper; Co-PI: Brian Buckley  
*Exposure Assessment and Toxicity of Microbead Associated Contaminants  
Present In New Jersey Surface Waters*
- New Jersey Water Resources Research Institute, PI. (2016) (\$20,000).  
Co-PIs: Keith Cooper, Brian Buckley  
*Microplastic Pollution in New Jersey Surface Waters.*
- Perth Amboy, NJ CUES Project (2016) (\$29,906)  
PI: Richard Alomar  
*Perth Amboy Trails and Park Design*
- NY/NJ Baykeeper Grant (2008 - 2016). PI. (\$125,000).  
*Raritan Bay oyster restoration feasibility studies*
- Mushett Family Foundation Grant (2014-2015). PI. Completed (\$25,000).  
*Support for CUES involvement in Raritan Bay oyster reintroduction research.*
- ISLES, Inc. Grant (2013 – 2015). Co-PI. Completed (\$25,000)  
PI: Laura Lawson  
*Trenton Regional Food Network Assessment & Feasibility Study*
- USEPA Grant (2012-2015), Co-PI. (\$100,000)  
PI: Christopher Obropta  
*Rutgers Sustainable Raritan River Initiative*
- Community-University Research Partnership Grant (2012 – 2013) (\$23,000)Co-PI.  
PI: Michele Bakacs, RCE Middlesex County Agent  
*Community and Backyard Gardening in New Brunswick's Urban Soils: Providing  
Locally Grown Food While Protecting Human Health*
- Dodge Foundation Grants (2009 - 2012). PI. Completed (\$80,000)  
*Center for Urban Environmental Sustainability (CUES) operating support*
- Township of Voorhees Grant (2010 - 2014). Co-PI. Completed  
PI: Wolfram Hoefer, Department of Landscape Architecture  
*Buzby Landfill Brownfield to Greenfield reuse project*
- Bergen County Grant (2009-2012) Co-PI. Completed. (\$54,000)  
PI: Dr. Wolfram Hoefer, Department of Landscape Architecture  
*Oradell Waterworks Cultural Landscape Study and Public Outreach*
- Sustainable Raritan Initiative (2009) Completed. \$10,000  
funded by the Mushett Family Foundation through Bloustein
- New Jersey Meadowlands Commission Grant PI. (2007-2008) Completed. (\$25,000)  
Co-PI: Judith Weis, Rutgers Newark  
*Hackensack River Oyster Habitat Development Study*

New Jersey Meadowlands Commission Grant, PI (2006-2008) Completed. (\$370,000)  
 Co-PIs: Weilin Huang, Bingru Huang  
*Leachate water recovery and turfgrass development for a Meadowlands golf course*

Rutgers EcoComplex – Burlington County Grant (2006-2008) Completed. (\$130,000)  
 Co-PIs: Donna Fennell, Uta Krogmann  
*A study to improve the operation of the Burlington County bioreactor landfill and to investigate landfill biogeochemical processes in this bioreactor.*

New Jersey Meadowlands Commission Grant, PI (2006-2007) Completed. (\$100,000)  
 Co-PIs: Christopher Obropta, Carter Strickland (RU Environmental Law Clinic)  
*A Stormwater Utility Feasibility analysis to address stormwater-related flooding issues in the Hackensack Meadowlands District*

New Jersey Meadowlands Commission Grant, PI (2005-2007) Completed. (\$240,000)  
 Co-PI: Christopher Obropta  
*Modeling of Kearny Marsh ground and surface water contaminant inputs*

New Jersey Wetlands Mitigation Council, Co-PI (2004-2007) - \$200,000  
 Teaneck Creek Conservancy subcontract to Cook College  
 PI: Christopher Obropta  
*Development of an urban hydrological model linking denitrification potential to urban wetland restoration*

New Jersey Meadowlands Commission Grant, PI (2005) - \$110,000 (Completed)  
 Co-PIs: Lisa Totten, Weilin Huang, Max Häggblom  
 Kearny Marsh sediment contaminant characterization study

NJ Water Resource Research Institute Grant, Co-PI(2005-2006) (Completed) \$30,000  
 Co-PIs: Barbara Turpin, Sybil Seitzinger  
*A study to link atmospheric N deposition with surface and ground water N and denitrification capabilities in an urban New Jersey wetland.*

### **CUES CONSULTING AGREEMENTS**

NY/NJ Baykeeper CUES Consulting (2016-2017). \$6,820  
 Microplastic reduction project and Newark, NJ community outreach

Middlesex County Improvement Authority CUES Consulting (2016-2017). \$6,450  
 Conduct a Brownfield (known and potential) survey in the City of Perth Amboy

Jersey City, NJ CUES Consulting (2016). \$9,750  
 Produce an Environmental Resource Inventory

NY/NJ Baykeeper CUES Consulting (2015 – 2018). \$23,000  
 Oyster monitoring at Naval Weapons Station Earle

Township of Voorhees CUES Consulting (2014-2016). \$25,000.  
 Voorhees Environmental Park implementation.

County of Bergen CUES Consulting (2014 – 2016). \$25,000  
 Teaneck Creek Wetland Restoration with RCE Water Resources

Borough of Somerville CUES Consulting (2014-2015). Completed (\$15,000)  
 Station Area and Landfill Redevelopment Plan: Wetland 'Green Seam' Design

## AWARDS

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- NJASLA Student Design Award. 2013. *Voorhees Environmental Park: Urban Landfill Reuse*.
- Running With Scissors Award*, NY/NJ Baykeeper 2012
- USEPA STAR Fellowship (2002-2005)

## PUBLICATIONS

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- Drake, L., Lawson, L., **Ravit, B.** Developing a vacant land inventory through productive partnerships: A university, NGO, and municipal planning collaboration in Trenton, New Jersey. *Cities and the Environment (CATE)* 8(2): Article 6. <http://digitalcommons.lmu.edu/cate/vol8/iss2/6>
- Kannepalli, S. **Ravit, B.**, Strom, P.F. 2016. Composting of aged reed bed biosolids for beneficial reuse: a case study in New Jersey, USA. *Compost Science & Utilization* 24(4): 281-290.
- Hoefler, W. Gallagher, F., Hyslop, T., Wibbelt, T., **Ravit, B.** 2016. Unique landfill restoration designs increase opportunities to create urban open space. *Environmental Practice* 18:106-115.
- Drake, L., **Ravit, B.**, Dikidjieva, I., Lawson, L. 2015. Urban greening supported by GIS: From data collection to policy implementation. *AIMS Environmental Science*. 2(4):910-934.
- Ravit, B.**, Weis, J., Rounds, D. 2015. Is urban marsh sustainability compatible with the Clean Water Act? *Environmental Practice* 17(1):1-11.
- Ravit, B.**, Weis, J. 2014. Clean Water Act Section 404 and Coastal Marsh Sustainability. *Coastal Management* 42(5):464-477.
- Ravit, B.**, Cooper, K., Buckley, B., Comi, M., McClandish, E. 2014. Improving management support tools for reintroducing bivalve species [Eastern oyster (*Crassostrea virginica* Gmelin)] in urban estuaries. *Integrated Environmental Assessment & Management* 10(4):555-565.
- Ravit, B.**, Comi, M., Mans, D., Lynn, C., Steimle, F., Walsh, S. Miskewitz, R., Quierolo, S. D. 2012. The Eastern Oyster (*Crassostrea virginica*) in the Hudson-Raritan Estuary: Restoration versus shellfishery regulation. *Environmental Practice* 16(2):110-129.
- Ravit, B.** Obropta, C., Kallin, P. 2008. Restoration of a forested riparian ecosystem: A baseline characterization approach to wetland enhancement in an urban watershed. *Urban Habitats* 5(1):126-152.
- Ravit, B.**, 2008. Rohleder, L., Johnson, L., Ehrenfeld, J., Kallin, P. Restoration of a forested riparian ecosystem: A vegetation survey of Teaneck Creek wetlands. *Urban Habitats* 5(1):199-214.
- Obropta, C., Kallin, P., Mak, M., **Ravit, B.** 2008. Restoration of a forested riparian ecosystem: Modeling urban wetland hydrology 5(1):183-198.
- Ravit, B.**, Ehrenfeld, J.G., Häggblom, M.M., Bartels, M. 2007. The Effects of Hydrology and Nutrient Inputs on Two Estuarine Macrophytes and their Root-Associated Microbial Communities. *Wetlands* 27(4):915-927.

- Babson, D., Krogmann, U., Fennell, D., **Ravit, B.** 2007. Development of a dynamic energy balance to assess operating efficiency of the Burlington County bioreactor landfill in New Jersey (USA). Proceedings Sardinia 2007, Eleventh International Waste Management and Landfill Symposium, Cagliari, Italy.
- Häggbloom, M. M., Fennell, D., Ahn, Y-B., **Ravit, B.** Kerkhof, L. 2006. Anaerobic dehalogenation of halogenated organic compounds: Novel strategies for bioremediation of contaminated sediments. *In* Viable Methods of Soil and Water Pollution Monitoring, Protection, and Remediation. NATO Science /series IV. Vol. 69. Springer. The Netherlands.
- Ravit, B.**, Häggbloom, M.M., Ehrenfeld, J.G. 2006. Salt Marsh vegetation affects rhizosphere microbial community structure and function. *Soil Biology & Biochemistry* 38(8):2359-2371.
- Ehrenfeld, J. G., **B. Ravit**, Elgersma, K. 2005. Feedback in the Plant-Soil System. *Annual Review of Environment and Resources.* 30:7.1–7.41
- Ravit, B.**, Häggbloom, M.M., Ehrenfeld, J.G. 2005. Salt Marsh Rhizosphere Affects Biotransformation of a Widespread Halogenated Contaminant. *Soil Biology & Biochemistry* 37:1049-1057.
- Ravit, B.**, Ehrenfeld, J.G., Häggbloom, M.M. 2003. A Comparison of Sediment Microbial Communities Associated with *Phragmites Australis* and *Spartina alterniflora* in Two Brackish Wetlands of New Jersey. *Estuaries* 26(2B):465-474.

## SELECTED PRESENTATIONS

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- Ravit, B.** Cooper, K., Buckley, B., Meola, S., Greenberg, M. 2016. Addressing Microplastic Pollution in Urban Watershed. Urban Extension Conference. Rutgers – Newark. November 29, 2016. Newark, NJ.
- Ravit, B.** 2016. Lion Gate Park: An Urban Wetland Restoration. Invited Presentation Society for Ecological Restoration. March 14, 2016. Stockton, NJ.
- Ravit, B.** 2015. The Geology/Ecology and Art of the Meadowlands. New Jersey City University. October 17. Jersey City, NY.
- Ravit, B.** 2015. Pearls in the Harbor: Reintroducing Eastern Oysters to the Hudson-Raritan Estuary. Fairleigh Dickinson University. September 24. Teaneck, NJ.
- Ravit, B.** 2015. Restoration, Site Evaluation and Selection in an Urban Estuary: Challenges and Opportunities. Invited Presentation HDC SETAC Annual Meeting. April 20. New Brunswick NJ.
- Ravit, B.**, M. Comi. 2014. Reintroducing the Eastern Oyster into one of the Largest Urban Estuaries in the World. Invited Presentation National Summit on Coastal & Estuarine Restoration. Washington, D.C. November 3, 2014.
- Ravit, B.** 2014. Brownfield Action Items for Sustainable Jersey. Invited Presentation Sustainable Raritan Remediation & Reuse Workshop. October 22, 2014. New Brunswick, NJ.
- Ravit, B.**, Weis, J., Rounds, D. 2014. Sea Level Rise, Coastal Marsh Sustainability, and the Clean Water Act Section 404. Invited Presentation. NY/NJ Harbor Estuary Program Annual Conference. June 4. New York, NY.

- Ravit, B.** 2013. Sustainable Jersey Brownfield Action Items. League of Municipalities Annual Meeting. November 20. Atlantic City, NJ.
- Ravit, B.,** Hoefler, W. 2013. Northern New Jersey Post-Sandy Resiliency. Stevens University Waterfront Conference. October 8. Hoboken, NJ.
- Ravit., B.** 2011. Workshop Organizer and Presenter. Restoring the Hudson-Raritan Estuary: the Planet's Most Urban Ecosystem. Coastal and Estuarine Research Federation International Meeting. November 6. Daytona Beach, Fl.
- Ravit, B.** 2011. Shallow Water Habitat Restoration in an Urbanized Estuary. Sustainable Raritan Conference. Rutgers University, New Brunswick, NJ. June 16, 2011.
- Ravit, B.** 2010. Oyster Restoration in an Urban Estuary: Lessons Learned. Ecology in the Balance – Sustainable Raritan Initiative. Rutgers University, New Brunswick, NJ.
- Ravit, B.** 2010. Oyster Restoration in an Urban Estuary: Lessons Learned. Atlantic Estuarine Research Society Conference. Atlantic City, NJ. March 5, 2010.
- Ravit, B.** 2009. Urban Oyster Restoration: How to Proceed? NY/NJ Baykeeper Oyster Conference. Governors Island, NYC. April 24, 2009.
- Ravit, B.** 2009. Urban Wetland Rehabilitation. Puffin Cultural Forum. Teaneck, NJ.
- Ravit, B.,** Vos-Wein, N., Comi, M., Ponticorvo, J. 2008. Hackensack River Oyster Project: Integrating Volunteer Monitoring to Develop a Benthic Habitat Restoration Plan. The National Monitoring Conference. Atlantic City, NJ.
- Ravit, B.,** Obropta, C., Hoefler, W., Miskewitz, R. 2008. Conceptual Plan for Adaptive Re-Use and Floodwater Control at the Historic Oradell Waterworks. American Ecological Engineering Society Annual Meeting. Blacksburg, VA.
- Yergeau, S., Obropta, C., **Ravit, B.,** Kallin, P. 2007. Development of a Water Budget for Kearny Marsh. NJ Meadowlands Symposium.
- Ravit, B.,** Häggblom, M., Ehrenfeld, J. 2007. Does the Plant Matter? NJ Meadowlands Symposium.
- Ravit, B.,** Xiao, B., Wall, S., Totten, L., Huang, W. 2007. Kearny Marsh sediment contaminant Investigation. NJ Meadowlands Symposium.
- Ravit, B.,** Webster, R. Esq. 2006. Science and the Law Seminar. Cook College. New Brunswick, NJ.
- Ravit, B.,** Arnold, M. 2006. Member of Brownfields to Greenfields panel. NJDEP Coast the Remediation Highway Workshop. Trenton, NJ.
- Ravit, B.,** Arnold, M. 2005. Collaborative Partnerships: A Successful Restoration Paradigm. Annual Volunteer Monitoring Summit. NJDEP. Edison, NJ.
- Ravit, B.,** Ehrenfeld, J.G., Häggblom, M.M. 2004. *Macrophytes and Microbes: Salt Marsh Grasses Affect Sediment Microbial Communities*. Intecol International Wetlands Conference. Utrecht, The Netherlands.
- Ravit, B.,** Obropta, C., Kallin, P. 2004. *A Plan to Assess the Hydrologic Flow and the Denitrification Function in a New Jersey Urban Wetland Restoration Project*. SWS Stormwater Conference. Philadelphia, PA.
- Ravit, B.** 2003. *Vegetation, Microbes, and Debromination*. Society of Wetland Scientists. Annual Meeting. New Orleans, LA.

## **COURSES TAUGHT**

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Environmental Design Analysis (Co-taught)	Fall 2016
Environmental Science 101, Rutgers, New Brunswick	1/09 – 12/14
Portals to Academic Student Success (PASS)	Spring 2010, 2011
Microbial Ecology (Instructor & Course Coordinator)	Spring 2010
Special Topics: Ecology & Microbiology, Cook College (Graduate)	Fall 2006
Microbial Ecology, Cook College	Fall 2005
Microbial Ecology, Rutgers Newark (Graduate)	Spring 2005

## **STUDENT ADVISING**

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Aresty Student Advisor, Julia Burmistrova, Eden Cohen	2016-17
Aresty Student Advisor, Henry Wright, Julia Gerdes	2015-16
Thesis Advisor, Ty Triplett, SEBS-LA Masters Candidate	2014-15
Research Advisor, Carol Baille, SEBS undergraduate	2012-16
Thesis Advisor, Stephen Yergeau, SEBS-DES PhD Candidate	2005-2010
Department of Environmental Sciences, undergraduate advisor	2012
Research Advisor, Stephanie Queirolo, SEBS undergraduate	2010
PhD Committee Member, Allison Mass, PhD Candidate CUNY, College of Staten Island	2009 - 2013
PhD Committee Member, Tiffany Medley, PhD Candidate CUNY, Queens College	2010
Student Mentor, Sneya Shah, MS Candidate Fairleigh Dickinson University, Hackensack, NJ	2010 – 2011

## **OUTREACH**

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CUES/LA Design Studio Jersey City	2015
CUES/LA Design Studio Little Ferry	2015
CUES/LA Design Studio Borough of Somerville	2014
Co-Chair CUES Brownfields Task for Sustainable Jersey	2012-Present
CUES Financial Feasibility Studies for the Hackensack Water Works (collaboration with Rutgers Business School & NYU graduate school)	2011-2012
Voorhees Environmental Park Community Outreach	2011-2012
Co-Chaired 'Green Solutions for Urban New Jersey' CUES Conference	2011
Co-Chaired 'Shaping the City of New Jersey' CUES Conference	2010
Sustainable Raritan Initiative (collaboration with Bloustein) Co-Chaired Stewardship Subcommittee	1/09- Present 2010-2011
Invited outside grant reviewer, USEPA STAR Fellowship	2011
Invited outside grant reviewer, USEPA Region II Environmental Education	2008-2014
Invited outside grant reviewer, PSEG Environmental Education	2009

## **SELECTED BOARDS and ORGANIZATIONS**

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<b>Board of Trustees, NY/NJ Trail Conference</b>	2014 - Present
<b>Board of Trustees, Hackensack Riverkeeper, Hackensack, NJ</b>	2008 - Present
Treasurer, Executive Committee	2010 - Present
<i>Tidelines</i> newsletter columnist	2001 - Present
Advisory Board	1999 – 2008
<b>Closter Nature Center, Trustee</b>	2012 – Present
Treasurer, Executive Committee	2015 - Present
<b>Sierra Club, Northern NJ, Executive Committee</b>	2012 - 2015
<b>Environmental Commission, Closter, NJ, (Chairman 2010-2012)</b>	2004 – 2012
<b>Board of Trustees, Teaneck Creek Conservancy, Teaneck, NJ</b>	2008 - 2011
Vice-President, Treasurer, Executive Committee	
<b>Watershed Management Planning, WMA5</b>	2001 – 2006
Member Steering Technical Advisory, and Public Advisory Committees	

## **ABREVIATED WORK HISTORY**

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<b>Retail Executive</b>	1/70 – 6/99
Numerous executive level positions in national and international corporations	
<b>Beth Ravit Associates, retail consultants</b>	5/89 – 6/99
<b>Next USA, Board of Directors, President, CEO</b>	6/96 – 8/98
<b>National Retail Federation Speaker, <i>The Globalization of Brands</i></b>	1/98
<b>Panel Member, Forbes Magazine Executive Women's Summit</b>	11/98
<b>Speedo Authentic Fitness, President, Retail Division</b>	4/92 – 5/96
<b>Lane Bryant Division, Limited Stores Corp., V.P Merchandising</b>	2/86 – 5/89