

**ANDREW B. REINMANN, Ph.D.**

ADVANCED SCIENCE RESEARCH CENTER  
AT THE GRADUATE CENTER, CUNY  
ENVIRONMENTAL SCIENCES INITIATIVE  
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**ACADEMIC  
APPOINTMENT**

**CUNY Advanced Science Research Center, New York, NY, USA**

- Assistant Professor, Environmental Sciences Initiative 2017 – present
- Co-Director, Next Generation Environmental Sensor Facility 2017 – present

**Hunter College, New York, NY, USA**

- Assistant Professor, Department of Geography and Environmental Science 2017 – present
- Science Director, Sustainability Lab and Green Roof Living Laboratory 2019 – present

**The Institute for Sustainable Cities at Hunter College, New York, NY, USA**

- Senior Researcher 2019 - present

**Boston University, Boston, MA, USA**

- Research Associate, May 2014 – January 2017

**RESEARCH  
INTERESTS**

Forest ecology, urban ecology & sustainability, ecosystem ecology, plant ecophysiology, terrestrial biogeochemistry, global change biology, dendrochronology,

**EDUCATION**

**Boston University, Boston, Massachusetts**  
Ph.D., Department of Biology, Certificate in Biogeoscience, 2014  
Thesis: Effects of winter climate change on carbon and nitrogen losses from temperate forest ecosystems.

**University of Maine, Orono, Maine**  
M.S., Department of Forestry, 2006  
Thesis, Effects of harvesting on nutrient cycling, red spruce radial growth, and dendrochemistry 30 years after harvesting in northern Maine, USA

**Binghamton University, Binghamton, New York**  
B.S., Harpur College of Arts and Science, Environmental Studies, 2001

**MANUSCRIPTS,  
AND TECHNICAL  
REPORTS**  
Popular Media &  
Technical Reports

\* = advisee

**Reinmann AB, Price D, Gruber S, Kohler C\*, Bowers J\***. 2022. Westchester County Forest Inventory: Mapping and Ecosystem Services Assessment. Report to the New York State Department of Environmental Conservation. 33p.

**Reinmann AB** and Templer PH. 2018. Climate change is shrinking winter snowpack, which harms Northeast forests year-round. *The Conversation*.  
<https://theconversation.com/climate-change-is-shrinking-winter-snowpack-which-harms-northeast-forests-year-round-103410>

Peer-reviewed  
\* = Advisee

**Statistics (as of 2/14/23):**  
31 total (published/in press); [Google Scholar](#) h-index = 20, i10-index = 23

**In Prep:**  
**Reinmann AB, Sevilla M\*, Conrad-Rooney E, and Templer PT.** Stimulatory effects of warming growing seasons on northern forest carbon cycling are offset by effects of

declining winter snowpack. *Target Journal: Nature Climate Change*. (Spring 2023 est. submission date)

Shetreat-Klein, M\* and **Reinmann AB**. Assessment of methods for maximizing hardwood seedling regeneration planted in silvopasture and sugarbush systems. *Target Journal: Agroforestry Systems*. (March 2023 est. submission date).

**In Review:**

Warner K\*, Sonti N, Hallett, R, Cook E, and **Reinmann AB**. Urbanization exacerbates climate sensitivity of northeastern broadleaf trees. *Ecological Applications*.

**2023:**

**Reinmann AB**, Bowers JT\*, Kaur P\*, and Kohler C\*. Compensatory responses of leaf physiology reduce effects of spring frost defoliation on temperate forest tree carbon uptake. *Frontiers in Ecology and Global Change*. 6: 988233 (Invited)

**2022:**

Wei D\*, **Reinmann AB**, Schiferl LD, and Commane R. 2022. Quantification of urban biogenic CO<sub>2</sub> fluxes requires high spatial resolution mapping of vegetation types. *Environmental Research Letters*. 17: 124031

Alcantar NA, Banta S, Cak AD, Chen X, Del Re C, Deravi LF, Dordick JS, Giebel BM, Greenfield D, Groffman PM, Holford M, John G, Joshi NS, Kotov NA, Montclare JK, Moore BS, Ortony JH, **Reinmann AB**, Son J, Stark, RE Ulijn RV, Vörösmarty, CV, Wilson JV. 2022. Bioinspired Green Science and Technology Symposium in NYC, *Matter*. 5(7): 1980-1984.

Garvey SM, Templer PH, Pierce EA, **Reinmann AB**, and Hutyra LR. Diverging patterns at the forest edge: soil respiration dynamics of fragmented forests in urban and rural areas. *Global Change Biology*. 28: 3094-3109.

Winbourne JB, Smith IA, Stoyanova H, Kohler C, Gately, CK, Logan BA, Reblin J, **Reinmann AB**, Allen DW, and Hutyra LR. Quantification of urban forest and grassland carbon fluxes using ground-based measurements and a satellite-based model in the Washington DC/Baltimore area. *Journal of Geophysical Research: Biogeosciences* 127(1): e2021JG006568. <https://doi.org/10.1029/2021JG006568>.

**2021:**

Morreale LL, Thompson JR, Tang X, **Reinmann AB**, Hutyra LR. 2021. Fragmentation impacts on temperate forest productivity: reversal of the tropical edge paradigm. *Nature Communications* 12(1): 7181. <https://doi.org/10.1038/s41467-021-27373-7>

Parker K\*, Elmes A, Boucher P, Hallett R, Thompson J, Simek Z, Bowers J\*, and **Reinmann AB**. 2021. Crossing The Great Divide: Bridging the researcher-practitioner gap to maximize the utility of remote sensing for invasive species monitoring and management. *Remote Sensing*. 13: 4142.

**2020:**

**Reinmann AB**, Smith IA\*, Thompson J, and Hutyra LR. 2020. Urbanization and fragmentation mediate temperate forest carbon cycle response to climate. *Environmental Research Letters*. 15(11): 114035. <http://doi.org/10.1088/1748-2D9326/abbf16>.

Marrs J, Reblin JS, Logan BA, Allen DW, **Reinmann AB**, Bombard DM, Tabachnik D, Hutyra LR. 2020. Is solar-induced fluorescence truly a proxy for photosynthesis? *Geophysical Research Letters*. 47, e2020GL087956. <https://doi.org/10.1029/2020GL087956>.

Harrison JL, Sanders-DeMott R, **Reinmann AB**, Sorensen P, Phillips N, Templer T. 2020. Growing Season Warming and Winter Soil Freeze/Thaw Cycles Increase Transpiration in a Northern Hardwood Forest. *Ecology*. e03173. <https://doi.org/10.1002/ecy.3173>

Elmes A, Estes L, Avery R, Caylor K, Eastman R, Fishgold L, Friedl M, Jain M, Kohli D, Laso Bayas JC, Lunga D, McCarty J, Pontius RG Jr., **Reinmann AB**, Rogan J, Song L, Stoyanova H\*, Ye S, Yi Z-F, Alemohammad H. 2020. Accounting for training data error in machine learning applied to Earth observations. *Remote Sensing*. 12: 1034

Harrison JL, **Reinmann AB**, Soggi Maloney A, Phillips N, Juice SM, Webster AJ, Templer PH. 2020. Transpiration of Dominant Tree Species Varies in Response to Projected Changes in Climate: Implications for Composition and Water Balance of Temperate Forest Ecosystems. *Ecosystems*. <https://doi.org/10.1007/s10021-020-00490-y>

Trlica A, Hutryra LR, Morreale LL, Smith IA, **Reinmann AB**. 2020. Current and future biomass carbon uptake in Boston's urban forest. *Science of the Total Environment*. 709: 136196

#### 2019:

Smith IA\*, Hutryra LR, **Reinmann AB**, Thompson JR and Allen DW. 2019. Fragmentation stimulates soil respiration in temperate forests. *Geophysical Research Letters*. 46(8): 4278-4287.

**Reinmann AB**, Susser JR\*, Demara EMC, and Templer PH. 2019. Declines in northern forest tree growth following snowpack decline and soil freezing. *Global Change Biology*. 25(2):420-430.

#### 2018:

**Reinmann AB** and Templer PH. 2018. Increased soil respiration in response to reduced snow cover and increased soil freezing is driven by elevated root mortality in a temperate deciduous forest. *Biogeochemistry*. 140: 359-371.

Smith IA\*, Hutryra LR, **Reinmann AB**, Marrs JK, and Thompson JR. 2018. Piecing together the fragments: Elucidating edge effects on forest carbon dynamics. *Frontiers in Ecology and the Environment*. 16(4):213-221.

Sanders-DeMott R, Sorenson PO, **Reinmann AB**, and Templer PH. 2018. Growing season warming and winter freeze-thaw cycles reduce root nitrogen uptake capacity and increase soil solution nitrogen in a northern forest ecosystem. *Biogeochemistry*. 137(3):337-349.

Sorenson PO, Finzi AC, Giasson M-A, **Reinmann AB**, Sanders-DeMott R, and Templer PH. 2018. Winter soil freeze-thaw cycles lead to reductions in soil microbial biomass and activity not compensated for by soil warming. *Soil Biology and Biochemistry*. 116: 39-47.

#### 2017:

**Reinmann AB** and Hutryra LR. 2017. Reply to Remy et al.: Local and global limitations to forest productivity as mediators of biogeochemical response to forest edge effects. *Proceedings of the National Academy of Sciences*. 114(34): E7033-E7034. doi: 10.1073/pnas.1712103114.

Templer PH, **Reinmann AB**, Sanders-DeMott R, Sorensen PO, Juice SM, Bowles F, Sofen L, Harrison JL, Halm I, Rustad L, Martin ME, and Grant N. 2017. Climate change across seasons experiment (CCASE): a new method for simulating future climate in seasonally snow-covered ecosystems. *PLoS ONE* 0171928. DOI: 10.1371/journal.pone.0171928.

**Reinmann AB** and Hutrya LR. 2017. Edge effects enhance carbon uptake and its vulnerability to climate change in temperate broadleaf forests. *Proceedings of the National Academy of Sciences* 114(1): 107-112. DOI: 10.1073/pnas.1612369114

#### 2016:

Carey JC, Tang J, Templer PG, Kroeger K, Crowther TW, Burton A, Dukes J, Emmett B, Frey S, Heskell M, Jiang L, Machmuller M, Mohan J, Panetta AM, Reich P, Reinsch S, Wang X, Alison S, Bridgham S, Collins S, De Dato G, Enquist B, Field C, Harte J, Johnson B, Larson K, Luo Y, Melillo J, Peñuelas J, Pfeifer-Meister L, Poll C, **Reinmann AB**, Reynolds L, Schmidt I, Shaver G, Strong A, Tietema A. 2016. Uniform response of soil respiration to experimental temperature manipulation. *Proceedings of the National Academy of Sciences* 113(48): 13797-13802. DOI: 10.1073/pnas.1605365113.

Ladwig L, Ratajczak ZR, Ocheltree TW, Hafich KA, Churchill AC, Frey SJK, Fuss CB, Kazanski CE, Muñoz JD, Petrie MD, **Reinmann AB**, and Smith JG. 2016. Beyond arctic and alpine: the influence of winter climate on temperate ecosystems. *Ecology* 97(2): 372-382.

Decina S, Hutrya LR, Gately CK, Getson J, **Reinmann AB**, Short AG, Templer PH. 2016. Soil respiration contributes substantially to urban carbon fluxes in the greater Boston area. *Environmental Pollution* 212: 433-439.

**Reinmann AB**, Hutrya LH, Trlica A, Olofsson P. 2016. Assessing the global warming potential of human settlement expansion in a mesic temperate landscape from 2005 to 2050. *Science of the Total Environment* 545-546: 512-524.

**Reinmann AB** and Templer PH. 2016. Reduced winter snowpack and greater soil frost reduce live root biomass and stimulate radial growth and stem respiration of red maple (*Acer rubrum*) Trees in a mixed-hardwood forest. *Ecosystems*. 19: 129-141.

#### Before 2016:

Briber BM, Hutrya LR, **Reinmann AB**, Raciti SM, Dearborn VK, Holden CE, Dunn AL. 2015. Tree productivity enhanced with conversion from forest to urban land covers. *PLoS ONE* 10(8): e0136237.

Campbell JL, **Reinmann AB**, and Templer PH. 2014. Soil freezing effects on sources of nitrogen and carbon leached during snowmelt. *Soil Science Society of America Journal* 78: 297-308.

**Reinmann AB**, Templer PH, and Campbell JL. 2012. Severe soil frost reduces losses of carbon and nitrogen from the forest floor during simulated snowmelt: A laboratory experiment. *Soil Biology and Biochemistry* 44: 65-74.

Templer PH and **Reinmann AB**. 2011. Multi-factor global change experiments: What have we learned about terrestrial carbon storage and exchange? *New Phytologist* 192: 797-800.

#### RESEARCH IN THE MEDIA

New York Times 2023 (<https://www.nytimes.com/2023/01/19/nyregion/trees-plants-air-quality-nyc.html?action=click&module=Well&pgtype=Homepage&section=New%20York>)

USGS Eyes on Earth podcast 2021 (<https://www.usgs.gov/media/audio/eyes-earth-episode-52-tracking-gray-ghosts-landsat>)

New York Times 2019 (<https://www.nytimes.com/2019/05/03/climate/climate-change-maple-syrup.html>)

The Maple News 2019 (<https://www.themaplenews.com/story/study-shows-declining-winter-snowpack-is-hurting-the-sugar-maple/231/>)

The Conversation 2018 (<https://theconversation.com/climate-change-is-shrinking-winter-snowpack-which-harms-northeast-forests-year-round-103410>)

WBUR (Boston NPR) 2018 (<https://www.wbur.org/news/2018/12/03/maple-trees-less-snow-slow-growth>)

NPR 2018 (<https://www.npr.org/sections/thesalt/2018/12/07/673713824/not-so-sweet-climate-change-means-slow-growing-sugar-maples-study-finds>)  
 Northern Woodlands 2017 (<https://northernwoodlands.org/discoveries/living-on-the-edge>)  
 Mongabay 2017 (<https://news.mongabay.com/2017/01/fragmentation-boosts-carbon-storage-along-temperate-forest-edges/>)  
 CityLab 2016 (<https://www.citylab.com/life/2016/12/where-forests-work-harder/511076/>)

**AWARDS, GRANTS,  
FELLOWSHIPS**  
(SINCE 2017)

**Grants Awarded** (CUNY portion of award is noted)

**2022:**

2022-2023: Spatial and temporal variations in land surface temperature, vegetation and socioeconomic and health characteristics in frontline EEJ neighborhoods in New York City: Integrating Scientific Study with Community Perspectives (**co-PI**); NASA (\$33,499).  
 2022-2025: Assessing impacts of beech leaf disease on forest structure and composition: towards informing management along a gradient of anthropogenic influence (**PI**). US Forest Service. (Total funds requested: \$97,348).  
 2022-2027: CAREER: Interactive effects of land cover and climate change on forest carbon sequestration: Integration of research and education to advance fundamental science and inclusivity. (**PI**); National Science Foundation (\$1,010,810)

**2021:**

2021-2023: Mapping, monitoring, and creating urban forested natural areas. (**PI**); RJVA US Forest Service (\$71,000)  
 2021-2021: Mapping and monitoring the spatial extent of hemlock woolly adelgid using surface reflectance and radar remote sensing. (**PI**); The Nature Conservancy (\$39,976).

**2020:**

2020-2021: Utilizing high resolution satellite-based multi-spectral surface reflectance analyses for early detection of hemlock woolly adelgid infestations in the Adirondacks. (**PI**); The Fund for Lake George (\$32,468).  
 2020-2023: Changing seasonality and nitrogen oligotrophication in the northern hardwood forest. (**co-PI**); NSF (\$706,289)  
 2020: Mapping and monitoring the distribution of hemlock woolly adelgid and related hemlock decline in the Catskill Mountain Region of New York using freely-available multispectral remote sensing. (**PI**); Cary Institute of Ecosystem Studies (\$14,999).  
 2020: NYC Congestion Pricing: A convergence approach to studying the impacts of climate change policy. (**PI**); CUNY (\$10,000).  
 2020: Maximizing Green Roof Potential with Microorganisms and Macro-Education. (**co-PI**); CUNY (\$36,525).  
 2020: Measuring and evaluating the impact of climate change induced urban heat at the micro-scale in New York City. (**co-PI**); CUNY (\$39,960).  
 2020: Leveraging natural gradients in microenvironment to understand interactive effects of changes in climate and forest tree species composition (Continuation). (**PI**); Black Rock Forest David Redden Conservation Science Fund. (\$6,000)  
 2020-2023: Quantifying spatial and temporal variations in urban biogenic C fluxes: Measurements, models and remote sensing from the leaf to the forest scale. (**Co-PI**); National Institute of Standards and Technology. (\$149,994)

2020-2023: Quantifying the impact of biogenic and anthropogenic fluxes on the atmospheric composition of the New York City Metro Area. **(Co-PI)**. National Oceanic and Atmospheric Administration. (\$226,829)

**2019:**

2020: Harnessing ecophysiology and evolutionary theory to improve models of biodiversity. **(Co-PI)**; CUNY Advanced Science Research Center New Collaboration Seed Program. (\$14,750).

2019-2022: Mapping spatiotemporal patterns in invasive tree, insect, and pathogen occurrences in the Lower Hudson Valley and New York City. **(PI)**; New York State DEC Invasive Species Grant Program – Terrestrial and Aquatic Invasive Species Research. (\$100,000).

2019-2020: Leveraging natural gradients in microenvironment to understand interactive effects of changes in climate and forest tree species composition. **(PI)**; Black Rock Forest David Redden Conservation Science Fund. (\$6,000)

**2018:**

2019-2020: A novel urban forest health monitoring system. **(PI)**; PSC-CUNY Research Award Program. (\$6,000)

2019-2021: Westchester County Forest Inventory: Mapping and Ecosystem Service Assessment. **(PI)**; New York Department of Environmental Conservation Hudson River Estuary Program. (\$50,000)

2018-2019: Estimating the potential role of trees in reducing heat vulnerability in the New York City metropolitan area. **(Co-PI)**; Advanced Science Research Center, GC, CUNY Seed Program. (\$30,000)

**2017:**

2017-2020: Urban net ecosystem productivity: Solar-induced fluorescence as a tool for productivity? **(Co-PI)**; National Institute of Standards and Technology. (Total award: \$644,501)

**MENTORSHIP**

**Postdoctoral Researchers:**

September 2021-present: Dandan Wei

Project: Biogenic carbon and VOC fluxes across New York City

**Graduate Students:**

August 2022-present: Evonne Aguirre, PhD student, CUNY Graduate Center

August 2022-present: John Paul Hellenbrand, CUNY Graduate Center

August 2019-present: Kelsey Parker, PhD student, CUNY Graduate Center

November 2020-May 2021: Hasimenghe Fnu, Hunter College

Master's Thesis: Leveraging satellite-based multi-spectral surface reflectance remote sensing data to improve early-detection of hemlock woolly adelgid infestations.

January 2018-January 2020: Paul Racco, MA student, Hunter College

Project: Projected impacts of climate change on the risks of apple orchards in New York State to damage from frost and fire blight

September 2017-August 2020: Ryan Lennon, MA student Hunter College

Project: Remote sensing of non-native trees in forests of the New York City Metropolitan Area

**Undergraduate Research Assistants:**

July 2021-present: Kathleen Hancock

September 2019-October 2019: Karen Guzman

January 2019-May 2020: Mayra Sanchez-Herrera

January 2019-May 2019: Alison Klein

April 2019-January 2023: Magdaly Savilla  
April 2019-June 2019: Franklin Rivera  
January 2018-August May 2019: Tasneem Ahmed  
January 2018-2019: Petra Kelly-Voicu

**Undergraduate Student Thesis Advisees (Since 2017):**

January 2023-present: Brian Boston  
Thesis: Integrating dendrochronology with airborne remote sensing to support practitioner efforts in monitoring and managing hemlock decline

January 2023-present: Jean Zion  
Thesis: Environmental justice perspective on tree canopy cover

August 2022-December 2022: Rohan Watt  
Thesis: Topographic Impact on Temperate Deciduous Forest Response to Climate Stressors

August 2022-present: Rollin Muscat  
Thesis: Spatial variations in forest root biomass and root:shoot ratios across a topographically heterogeneous landscape

May 2022-present: Roxanna Gates  
Thesis: Wood production phenology across a climate gradient in temperate broadleaf forests August 2022-December 2022:

January 2022-present: Tyreik Kelly  
Thesis: Quantifying soil biogeochemistry and root biomass characteristics along a gradient in invasive plant abundance in an urban forest.

January 2022-present: Margalit Shetreat-Klein  
Honors Thesis: Apical bud protection strategies in silvopasture and sugarbush systems

January 2022-present: Altynai Scott-James  
Thesis: Bird diversity implications of the New York City Million Trees Project.

August 2021-present: Rohan Watt, undergraduate Hunter College  
Honors Thesis Project: Influence of soil characteristics on temperate forest growth response to climate stress.

August 2020-May 2021: Emily Symonds, undergraduate Barnard College  
Thesis Project: An investigation of the effects of invasive species on leaf litter fauna in New York City parks

June 2020-present: Kayla Warner, undergraduate Barnard College  
Independent Project: Contrasting climate sensitivity of tree growth between urban and rural temperate forests

August 2020-present: Anastasia Rubio, undergraduate Hunter College  
Honors Thesis Project: Temporal trajectories in vegetation cover across census blocks in NYC as a function of socioeconomic, race, and ethnicity

August 2020-December 2020: Cassiane Bohn Au, undergraduate Hunter College  
Honors Thesis Project: Developing a vertical farming system at Hunter College

August 2020-May 2021: Katelyn Neff, undergraduate Hunter College  
Capstone Project: Temperate broadleaf forest biomass response to natural edges

January 2020- May 2020: Evelyn Tawil, undergraduate Hunter College  
Honors Thesis Project: Rooting medium as an important mediator of green wall plant performance

January 2020- May 2020: Shakira Fernandez, undergraduate Hunter College  
Capstone Project: Lead contamination of urban soil in NYC

January 2020- May 2020: Juliana Maronilla, undergraduate Hunter College  
Capstone Project: History of ecological impacts of acid rain in the Adirondacks

January 2020- May 2020: Juan Osorio Cruz, undergraduate Hunter College  
Capstone Project: Tree growth response to water stress in the Hudson Highlands

January 2020- May 2020: Miralem Desic, undergraduate Hunter College  
 Capstone Project: Environmental drivers of NSC storage in maple trees

January 2020-May 2020: Diana Polanska, undergraduate Hunter College  
 Capstone Project: Environmental drivers of NSC storage in oak trees

September 2019-December 2019: Kitty Zheng, undergraduate Hunter College  
 Capstone Project: Plant phenology of a green roof

September 2019-December 2019: Enkel Bega, undergraduate Hunter College  
 Honors Thesis Project: Effects of urbanization on tree health

January-May 2019: Hristiana Stoynova, undergraduate Hunter College  
 Honors Thesis Project: Biogenic carbon storage and fluxes in a heterogeneous suburban landscape: A case study at the National Institute of Standards and Technology in Gaithersburg, Maryland.

January-May 2019: Brithney Malchan, undergraduate Hunter College  
 Capstone Project: Soil microbes as a means for bioremediation of contaminated soils

January-May 2019: Michael Tejada, undergraduate Hunter College  
 Capstone Project: Assessment of municipal compost programs within different cities and townships across North America and the Agronomic value of compost in soil health and its use as an environmental service

September-December 2018: Alison Klein, undergraduate Hunter College  
 Honors Thesis Project: Variations in tree growth along gradients in water availability

September-December 2018: Taewoo Kim, undergraduate Hunter College  
 Capstone Project: Variations in forest root biomass along gradients in water availability

January-May 2018: Noa Jaffe, undergraduate Hunter College  
 Honors Thesis Project: Spatial variations of soil microbial extracellular enzymes in fragmented forests

January-May 2018: Amrita Barmadat, undergraduate Hunter College  
 Capstone Project: Impacts of climate change on maple syrup production

July-Dec 2017: Petra Kelly-Voicu, undergraduate Hunter College  
 Honors Thesis Project: Tree regeneration and recruitment in urban forests.

**TEACHING**  
 (SINCE 2017)

**Semester-Long Courses**

**Hunter College: 2017-present**

Field Ecology of New York City

- Field-based course with classes held in different ecosystems across parks in Manhattan
- Overnight field trip to Black Rock Forest (a field research station) supported by internal grants

Ecology of Global Change

- Lecture-based course with numerous guest lectures (via Zoom or in person) from the scientists that authored many of the papers the students read for class
- 3-day field trip to Harvard Forest in MA (NSF LTER site) supported by internal grants

**SELECTED  
 INVITED  
 PRESENTATIONS**  
 (SINCE 2017)

**2022:**

Cornell University Sea Grant (NY) (June 2022)

Presentation Title: Mapping Trees and Heat Using Web-Based Tools

Canadian Council of Forest Ministers Forest Pest Working Group (Canada) (March 2022)

Presentation Title: Early Detection of Hemlock Woolly Adelgid Infestations Using Freely-Available Remote Sensing Products  
New York State Department of Environmental Conservation (NY) (April 2022)  
Presentation Title: See the City for the Trees: Urban Tree Canopy Trends and Local Strategies  
Hubbard Brook Committee of Scientists (NH) (April 2022)  
Presentation Title: Soil Respiration: What is it and Why are We Talking About it All Day?  
Albany, New York Climate Reality Chapter (NY) (March 2022)  
Presentation Title: Forests or Solar Farms?  
Queens College (NY) (March 2022)  
Presentation Title: Interactive Effects of Forest Fragmentation and Climate Change on Forest Carbon Sequestration  
Bedford 2030 (NY) (February 2022)  
Presentation Title: The Climate Benefit of Trees

**2021:**

CUNY Climate Crisis Seminar (NY) (September 2021)  
Presentation Title: New York City's Urban Forests in a Changing Climate: Implications for Ecosystems and Society  
New Canaan Land Trust (CT) (May 2021)  
Presentation Title: Our Trees, Our Climate, Our Changing Landscapes  
New York Botanical Garden (NY) (February 2021)  
Presentation Title: Seeing the Forest for the Snow: Connecting the Ecological Impacts of Climate Change Across Seasons  
Cornell Cooperative Extension (April 2021)  
Presentation Title: Westchester County Forest Inventory: What it Means for Rockland County  
Advisory Panels of the New York State Climate Action Council (February 2021)  
Presentation Title: New Considerations for Forest Carbon Accounting and Sequestration Opportunities in Support of Climate Change Mitigation Policies

**2020:**

NYC ReLeaf Webinar  
Presentation Title: Urban Forests: A Nexus of Carbon, Climate and Community  
Columbia University, Dept. of Ecology, Evolution, and Environmental Biology  
Seminar Title: Urbanization and fragmentation as mediators of forest growth and carbon cycle response to climate  
Catskill Regional Invasive Species Partnership  
Presentation Title: Mapping woolly adelgid-related hemlock decline across the Catskills  
Hofstra College Urban Ecology  
Seminar Title: The urban forest conundrum: Woes and Windfalls of life on the edge  
New York City Restoration Practitioners Meeting  
Presentation: The urban forest conundrum: Woes and Windfalls of life on the edge  
Catskill Regional Invasive Species Partnership  
Presentation Title: Mapping invasive species across the forests of New York: A view from space  
NASA Goddard Institute for Space Studies  
Seminar Title: Seeing the city for the trees: Biophysical implications of urbanization and forest fragmentation

**2019:**

University of Connecticut Department of Natural Resources and the Environment  
Seminar Title: Life on the edge: Interactive effects of forest fragmentation and climate change on the carbon cycle

Columbia University, Lamont-Doherty Earth Observatory

Seminar Title: The cutting edge of carbon cycle science: Forest response to the interactive effects of land cover change and climate change

27<sup>th</sup> Annual New York State ReLeaf Conference, Newburgh, NY

Presentation Title: Trees in Heat: Forest Response to Urbanization, Fragmentation, and Climate Change

Boston University, Biogeosciences Program Alumni Panel

Invited Panelist

Westchester GIS Conference, SUNY Purchase

Presentation Title: Westchester County Forest Inventory: Mapping and Ecosystem Services Assessment.

New York-New Jersey Society of Conservation GIS

Seminar Title: From Leaf to Landscape: Integrating remote sensing and GIS into ecological research

New York State Association of Counties: Legislative Conference

Seminar Title: Seeing the county for its trees: Considerations for an era of changing landscapes.

**2018:**

Bowdoin College Department of Biology Seminar Series

Seminar Title: Disappearing snow and the complicated role of winter warming in forest ecosystem response to climate change.

US Forest Service & Cornell University: Local Climate Action Summit NYC

Seminar Title: Trees: A cool piece to the local climate action puzzle

Graduate Center, CUNY: Home in the Time of Climate Change Conference Seminar

Presentation Title: From the Northwoods to the North Woods: Climate change impacts on forests of the northeast.

Queens College Department of Earth and Environmental Sciences Seminar Series

Seminar title: Forest edge-ucation: Patterns and mechanistic drivers of forest carbon dynamics in fragmented landscapes.

US Forest Service, New York City Urban Field Station

Seminar title: From microclimate to megacities: Impacts of urbanization on forest growth and perpetuation.

Lehman College Department of Biology Seminar Series

Seminar title: Forest edge effects: Are we overlooking an important perturbation to the terrestrial carbon cycle?

Graduate Center, CUNY Earth and Environmental Sciences Colloquium

Seminar title: Forest edge effects: Are we overlooking an important perturbation to the terrestrial carbon cycle?

**2017:**

Queens College Department of Biology Seminar Series

Seminar title: Forest edge effects: Are we overlooking an important perturbation to the terrestrial carbon cycle?

Hofstra University Department of Biology Seminar Series

Seminar title: Forest edge effects: Are we overlooking an important perturbation to the terrestrial carbon cycle?

Boston University Biogeosciences Program Seminar Series

Seminar title: Forest Edge Effects: Are We Overlooking an Important Perturbation to the Terrestrial Carbon Cycle?

**SCIENTIFIC  
CONFERENCE  
PRESENTATIONS**  
(SINCE 2017)

\* = Advisee

\*\*=Invited presentation

**2022:**

Caston-Donatien M\*, Chan A\*, Gates R\*, Huang M\*, Groffman P, Templer P, and **Reinmann AB**. Tree growth and phenology across a climate gradient at Hubbard Brook. Hubbard Brook Experimental Forest Annual Cooperators Meeting, Zoom, July 2022. Oral presentation.

**2021:**

**Reinmann AB**, Kaur P\*, Agudelo K\*, Sevilla M, and Kohler C. Implications of defoliating spring frost events for tree carbon uptake and competition dynamics in temperate broadleaf forests. American Geophysical Union Fall 2021 Meeting, Zoom, December 2021. Oral presentation.

Pelegano-Titmuss E\*, Kohler C, Poon S\*, and **Reinmann AB**. Flash drought alters the nonstructural carbohydrate pool composition of mature red maple (*Acer rubrum*) and red oak (*Quercus rubra*) trees. Ecological Society of America Annual Meeting, Zoom. August 2021. Poster.

**Reinmann AB**, Sanchez A\*, Motilall L\*, Zion J\*, Groffman P, Garlick S, and Templer P. Using the Nitrogen Oligotrophication Study to Broaden Diversity of Undergraduate Students in Ecological Research. Hubbard Brook Experimental Forest Annual Cooperators Meeting, Zoom, July 2021. Oral presentation.

**Reinmann AB**, Peleganotitmus E\*, Kaur P\*, Agudelo K\*, Sevilla M, and Kohler C. Three years into The Black Rock Forest Environmental Gradient Study: Soil Moisture as a Mediator of Tree Response to Climate Stress. Black Rock Forest Symposium. Zoom, June 2021. Oral presentation.

**2020:**

**Reinmann AB**, Hutyra LR, Smith IA, and Thompson JR. Urbanization and Fragmentation as Mediators of Forest Growth and Carbon Cycle Response to Climate. American Geophysical Union Annual Meeting. Zoom. December 2020. Oral.

**Reinmann AB** and Templer PH. Climate change across seasons experiment: Summary of forest carbon cycle response. Hubbard Brook Experimental Forest Annual Cooperators Meeting, Zoom, July 2020. Oral presentation.

**2019:**

**\*\*Reinmann AB**, Rustad L, Asbjornsen H, Vadeboncoeur M, Templer PH, Campbell JL, Fahey T. **Reinmann AB** and Templer PH. Northern hardwood forest soil respiration response to climate change: Insights from multiple climate manipulation experiments. Forest Ecosystem Monitoring Cooperative 2019 Conference, Burlington, VT. Oral Presentation.

Deas AAJ, Klein A\*, Schiller-Weiss I\*, Wu R\*, Zhang A\*, **Reinmann AB**. Regional Differences in Tree Growth Response to Climate in the Eastern United States. Ecological Society of America Annual Meeting, Louisville, KY, August 2019. Poster Presentation.

**Reinmann AB**, Rustad L, Asbjornsen H, Vadeboncoeur M, Templer PH, Campbell JL, Fahey T. Response of Soil Respiration to Chronic and Extreme Climate Manipulations at Hubbard Brook. Hubbard Brook Experimental Forest Annual Cooperators Meeting, North Woodstock, NH, July 2019. Oral presentation.

**Reinmann AB**, Deas AAJ, Klein A\*, Kim T\*, and Ahmed T\*. Leveraging environmental gradients at Black Rock Forest to understand the response of the tree growth and nonstructural carbohydrate storage to projected changes in climate. Black

Rock Forest Consortium Bi-annual Research Symposium, Cornwall, NY, June 2019. Oral Presentation.

**2018:**

**Reinmann AB**, Hutyra LR., Smith IA\*, and Thompson JR. Edged out: Edge to interior gradients in forest microenvironment as important drivers of the terrestrial carbon cycle. American Geophysical Union Annual Conference, Washington, DC, December 2018. Poster

**Reinmann AB** and Templer PH. Effects of warmer growing season temperatures and reduced winter snowpack on soil and tree stem respiration in a northern hardwood forest. Hubbard Brook Experimental Forest Annual Cooperators Meeting, North Woodstock, NH, July 2018. Oral presentation.

**\*\*Reinmann AB**, Smith IA\*, Thompson JR, and Hutyra LR. 2018. Forest edge-ucation: Patterns and mechanistic drivers of forest carbon dynamics in fragmented landscapes. International Association of Landscape Ecologists US Annual Conference, Chicago, IL, April 2018. Oral presentation.

**2017:**

**Reinmann AB**. Cool trees in a hot world: Interactions between forest and city. Virginia Commonwealth University workshop titled: *Restoring RVA: Urban Forestry for Healthier Communities* in Richmond, VA, October 2017. Oral presentation, *Invited*.

**Reinmann AB**, Smith IA\*, Thompson J, and Hutyra LR. Forest edge effects: Are we overlooking an important perturbation to the terrestrial carbon cycle? North American Carbon Program 6<sup>th</sup> Principal Investigators Meeting, Bethesda, MD. March 2017. Oral presentation.

**ORGANIZED WORKSHOPS & CONFERENCES**

Congestion Pricing: Implications for Environment and Society (May 2022)

- Interdisciplinary workshop featuring keynotes from global experts
- Participants included academics, community organizations, transit experts, members from the public health and policymaking communities

Westchester County Forest Inventory: Mapping and Ecosystem Services Assessment (November 2022; December 2020)

- Policymaker and stakeholder engagement workshop

**INSTITUTIONAL SERVICE (SINCE 2017)**

2021-present: Advisory and Admissions Committees, PhD Program in Plant Sciences, CUNY Graduate Center

2020-present: Faculty adviser, Hunter College ESA SEEDS chapter

- Undergraduate student group focused on increasing diversity in ecology and environmental science

2019-present: Science Director, Hunter College Sustainability Lab & Green Roof

- Co-Led proposal for internal funds to support student engagement and purchasing necessary materials

2018-present: Admissions Committee, PhD Program in Earth and Environmental Sciences, CUNY Graduate Center

2017-present: Co-Director, Next Generation Environmental Sensor facility at the Advanced Science Research Center, CUNY

**PROFESSIONAL SERVICE (SINCE 2017)**

**Research-related service:**

Co-organized presentation session for the 2019 Ecological Society of America Annual Meeting, Louisville, KY.

Session Title: Novel Ecosystem Dynamics in Human Dominated Ecosystems

Served on a NASA review panel (2019) and NSF review panel (2022)

Reviewed grant proposals for the National Science Foundation (2018, 2019)

**Guest/Associate Editor for scientific journals****2023:**

Northeastern Naturalist

**Referee for scientific journals:**2023:

Forest and Agricultural Meteorology, Frontiers and Ecology and the Environment

2022:

Functional Ecology, Environmental Research Letters, Nature Communications, Science of the Total Environment, Global Change Biology

2021:

Urban Ecosystems, Oecologia, Science of the Total Environment, Geoderma, Functional Ecology, Soil Biology and Biochemistry, Global Environmental Change, Environmental Research Letters

2020:

Climatic Change, Geoderma, Ecosphere, Ecosystems, Environmental Research Letters, Science of the Total Environment, Urban Climate

2019:

Geoderma, Land Degradation and Development, Geophysical Research Letters, Global Change Biology, TREES

2018:

Global Change Biology, Science of the Total Environment, Environmental Pollution, Land Degradation and Development, Environmental Research Letters

Before 2018:

Nature Plants, Perspectives in Plant Ecology and Evolution, Tree Physiology, New Phytologist, Regional Environmental Change, Plos One, Forest Science, Geoderma

**Service to the broader community:**

2019-present: Science and Research Team Lead, Forests for All NYC (Lead institution is The Nature Conservancy)

2019-present: Steering committee for 'Planting Westchester', Westchester County's (NY) tree canopy expansion Project

2019-present: Consulting municipalities across the Hudson Valley of NY as well as the Westchester County Climate Crisis Task Force on integrating scientifically sound climate change mitigation strategies into their policies

**Professional memberships:**

2010-present: Member, Ecological Society of America

2016-present: Member, American Geophysical Union