

HOGYEUM 'EVAN' JOO

Rutgers, the State University of New Jersey
Graduate Program in Ecology and Evolution
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EDUCATION

- 2021 – Present Ph.D. Candidate, *Rutgers, The State University of New Jersey*, New Brunswick, NJ
Graduate Program in Ecology and Evolution
Advisor: Dr. Myla F.J. Aronson
Committee Members: Dr. Richard Lathrop (Rutgers University-New Brunswick), Dr. Steward Pickett (Cary Institute of Ecosystem Studies), Dr. Elizabeth Cook (Barnard College/Cary Institute of Ecosystem Studies), Dr. Cynnamon Dobbs (Universidad de Los Andes)
- 2021 M.S., Sustainability Management, *Columbia University in the City of New York*, New York, NY
The Earth Institute – School of Professional Studies
Advisor: Dr. Steven Cohen
- 2019 B.A. with Honors, Ecosystems and Human Impact, *Stony Brook University*, Stony Brook, NY
Minor in Geospatial Science
Sustainability Studies Program, School of Marine and Atmospheric Sciences
Honors Thesis: *Campus Forest as a target of urban open space preservation: a case study*

HONORS AND AWARDS

- 2025 • **Honorable Mention**, Joan Ehrenfeld Best Student Talk Award, Urban Ecosystem Ecology Section of the Ecological Society of America (\$250)
• **Grant**, Andrew M. Greller Graduate Student Research Award for Conservation of Local Flora and Ecosystems, Torrey Botanical Society (\$1,000)
- 2023 • **Grant**, Ecology and Evolution Small Grant, Rutgers University (\$1,000)
- 2019 • **Award**, Undergraduate Research Award, School of Marine and Atmospheric Sciences, Stony Brook University
• **Honors**, Undergraduate Departmental Honors Program, School of Marine and Atmospheric Sciences, Stony Brook University
• **2nd Place Winner**, School of Marine and Atmospheric Sciences Environmental Essay Competition, Stony Brook University
• **Nominee**, Undergraduate Recognition Award - Outstanding Achievements, Stony Brook University
• **Scholarship Award**, Ashley Schiff Preserve Scholarship (\$1,000)
- 2017 • **Best Poster Presentation Award**, Asian Wetland Symposium 2017, Saga, Japan
- 2016 • **Award of Appreciation**, The Friends of Ashley Schiff Preserve

Teaching and Academic Experience

- Aug. 2021-May. 2024 • **Teaching Assistant**, Biological Research Laboratory, Division of Life Sciences, Rutgers University
- Spring 2022, Spring 2023, Spring 2024
- Teaching Effectiveness Rating: 4.51/5 (S2022)
- Aug. 2021-May. 2024 • **Teaching Assistant**, Principles of Biology Lab, Division of Life Sciences, Rutgers University
- Fall 2021, Fall 2022, Fall 2023
- Teaching Effectiveness Rating: 4.81/5 (Fall 2021), 4.95/5 (Fall 2022), 4.87/5 (Fall 2023)
- May-Dec. 2020 • **Graduate Urban Ecology/Restoration Policy Consultant**, Urban Ocean Lab
Report title: Evaluating Climate Resiliency in Coastal Cities: U.S. Case Studies.

- May-Jul. 2020 Faculty Advisor: Dr. Bob Cook, School of International and Public Affairs, Columbia University
 • **Faculty Support Assistant**, Sustainability and Urban Forms, Columbia University
- Aug-Dec. 2020 Professor: Dr. Allison Bridges, School of Professional Studies, Columbia University
 • **Independent Study**, Open Space Preservation on Higher Education Institution, Columbia University
 Report Title: Environment, Preservation, and Higher Education Institutions: a review on open space preservation cases on college campuses.
 Advisor: Dr. Steven Cohen, The Earth Institute, Columbia University
- Jan-May. 2019 • **Undergraduate Honors Thesis Research**, Stony Brook University
 Thesis Title: Campus Forest as a Target of Green Space Preservation
 Advisor: Dr. Sharon Pochron, School of Marine and Atmospheric Sciences, Stony Brook University
- 2016-2019 • **Scholarship Program**, Ashley Schiff Park Preserve Awareness Assessment 2019
 Scholarship-granting organization: Friends of Ashley Schiff Preserve. Awarded \$1,000
- Aug.-Dec. 2015 • **Independent Project**, Ashley Schiff Park Preserve Awareness Assessment Survey Project, Stony Brook University
- Jan.-May 2016 • **Internship**, Curriculum Development for Undergraduate Level Course in Agroecology, Sustainability Studies Program, Stony Brook University
 Title of the Proposed Class: Agroecology and Sustainable Food Systems
 Advisor: Marc Fasanella, Ph.D., Sustainability Studies Program, Stony Brook University
- Jan.-May. 2016 • **Undergraduate Teaching Assistant**, Collective Action and Advocacy, Sustainability Studies Program, Stony Brook University
 Professor: Dr. Marc Fasanella, Sustainability Studies Program, Stony Brook University
- May-Dec. 2014 • **Independent Research**, Village Ponds Research, Orissa, Republic of India

RESEARCH

Publications

- MFJ Aronson, **HE Joo**, L Fitzpatrick, S Gigliotti, K Gorman, M King, J Ramírez-Garofalo, G Thomson, ES Tartaglia. Early Response of Urban Forested Natural Areas to Wildfire as a Novel Disturbance. **Frontiers in Ecology and the Environment**. (Under Review).
- HE Joo**, ES Tartaglia, MFJ Aronson. Analysis of Vegetation Structural Heterogeneity and Biodiversity in Urban Parks of New York City. *In Prep.* (2026)
- HE Joo**, JAG Clark, MFJ Aronson. Links Between Campus Protected Landscape Awareness and Support for Conservation in a Student Sample. *In Prep.* (2026)
- HE Joo**, ES Tartaglia, MFJ Aronson. Measuring Urban Green Equity from Plant Species Composition and Biodiversity Distribution in Urban Green Space-adjacent Neighborhoods in New York City. *In Prep.* (2026)
- Winkler RL, JAG Clark, DH Locke, Peleg Kremer, MFJ Aronson, F-A Hoover, **HE Joo**, D La Rosa, KJ Lee, SB Lerman, H Pearsall, TLV Vargo, CH Nilon, CA Lepczyk. Unequal access to social, environmental and health amenities in US urban parks. **Nature Cities** (2024) <https://doi.org/10.1038/s44284-024-00153-2>
- HE Joo**. A Walk in the Park? Not for Everyone: Addressing Inequality in Access to Social, Environmental, and Health Amenities in US Urban Parks. **Behind the Paper, Springer Nature Research Communities** (2024) <https://go.nature.com/4eBKm7m> *Ranked top 5 post in Humanities and Social Sciences in Springer Nature Research Communities 2024.
- Lee, KJ, MFJ Aronson, JAG Clark, F-A Hoover, **HE Joo**, P Kremer, D La Rosa, KL Larson, CA Lepczyk, SB Lerman, DH Locke, CH Nilon, H Pearsall, T Vargo. Limitations of Existing Park Quality Instruments and Suggestions for Future Research. **Landscape and Urban Planning** (2024) <https://doi.org/10.1016/j.landurbplan.2024.105127>
- Joo, HE**, MFJ Aronson, JAG Clark, Peleg Kremer. Socio-Environmental Drivers of Human-Nature Interactions in Urban Green Spaces. **Urban Ecosystems** (2024) <https://doi.org/10.1007/s11252-024-01593-3>

Presentations and Talks

- Joo, H**, Aronson, M.F.J. (2025) *Habitat heterogeneity, not park size, drives plant biodiversity in urban green spaces*. Oral Presentation, Ecological Society of America, Baltimore, MD, August 10-15, 2025
- Joo, HE**, Aronson, M.F.J. (2025) *Links between Campus Protected Landscape Awareness and Support for Conservation in a Student Sample*. Ecological Society of America- Mid-Atlantic Chapter 2025 Annual Conference, Kennett Square, PA, April 4-6, 2025
- TLV Vargo, KJ Lee, MFJ Aronson, JAG Clark, F Hoover, **HE Joo**, P Kremer, Daniele La Rosa, KL Larson, CA Lepczyk, SB Lerman, DH Locke, CH Nilon, H Pearsal, ML Steinhauer, AFN Tokuyama (2025) *Limitations of existing park quality instruments related to ecological function and biodiversity*. International Urban Wildlife Conference. Atlanta, GA, USA
- Kremer, P., Winkler RL, Clark J, Locke DH, Aronson M, Hoover F, **Joo HE**, La Rosa D, Lee KJ, Lerman SB, Pearsall H, Vargo TLV, Nilon CH, Lepczyk CA. *Unequal access to social, environmental, and health amenities in US urban parks*. Poster Presentation, American Geophysical Union 2024, Washington, D.C. December 9-13, 2024
- H.E. Joo**, M.F.J. Aronson, *Measuring Habitat Heterogeneity and Biodiversity in Urban Parks of New York City*. Oral Presentation, URBIO (Urban Biodiversity and Design) 2024, Columbia, MO, June 24-26, 2024
- H.E. Joo**, P. Kremer, J. Brown, M.F.J. Aronson, *Socio-Environmental Drivers of Human-Nature Interaction in Urban Green Spaces: A case of New York City*. Oral Presentation, Ecological Society of America, Portland, OR, August 6-11, 2023
- Winkler, R.L., Aronson, M. J., Brown, J. A., Hoover, F. A., **Joo, E.**, Kremer, P., La Rosa, D., Lepczyk, C. A., Locke, D. H., Nilon, C.. *Access To Social, Environmental, And Health Benefits Of U.S. Urban Parks By Race And Income*. June 29, 2022 The Annual Meeting of the International Association for Society and Natural Resources (IASNR). Costa Rica.
- Lee, K. J., Aronson, M. J., Brown, J. A., Hoover, F. A., **Joo, E.**, Kremer, P., La Rosa, D., Larson, K., Lepczyk, C. A., Lerman, S. B., Locke, D. H., Nilon, C., Pearsall, H., Vargo, T., & Winkler, R. L. (2022). *A critical review of social and ecological park quality measurements*. June 2022 The Annual Meeting of the International Association for Society and Natural Resources (IASNR). Costa Rica.
- J.A. Brown, R.L. Winkler, D.H. Locke, P. Kremer, M.F.J. Aronson, F. Hoover, **H.E. Joo**, D. La Rosa, K.J. Lee, S.B. Lerman, C. Lepczyk, C. Nilon, H. Pearsall, T. Vargo, *Beyond Accessibility: Inequity among socio-demographic groups in park access, amenities, and ecosystem service benefits*. Oral Presentation, Ecological Society of America, Portland, OR, August 6-11, 2023
- H. Joo**, *Higher Education Institution-led Open Space Preservation: a new view on the relationship between universities and their surrounding ecosystems in regards to the ESDGs*. Poster Presentation, The 9th International Conference on Sustainable Development 2021, Virtual, August 2021
- I. Khimey, S. Kelly, A. Nuzzo, R. Silver, S. Pochron, **H.E. Joo**, *From Oaks to Deer: A look at the biodiversity of Stony Brook University*. Poster Presentation, URECA Undergraduate Research Symposium, Stony Brook, NY, May 5th, 2021
- A. Nuzzo, I. Khimey, R. Silver, S. Pochron, **H.E. Joo**, *A Closer Look at Stony Brook University's Ecosystem Health: a taxonomic categorization*. Poster Presentation, URECA Undergraduate Research Symposium, Stony Brook, NY, May 5th, 2021
- S. Yeoman, M. Kadirgamar, S. R. S. Archila, T. Bellone, A. Bottome, E. Cresswell, S. Fellon, F. Ferreira, **E. Joo**, *Evaluating Climate Resiliency in Coastal Cities: U.S. Case Studies*, Master's Degree Capstone Project Report, Columbia University, New York, NY, December 2020
- H. Joo**. *Campus Forest as a target of Urban Open Space Preservation*. Session Oral Presentation, The 7th Annual International Conference on Sustainable Development 2019, New York, NY, September 24-25th, 2019
- H. Joo**. *Campus Forest as a target of Urban Open Space Preservation: a case study*. Symposium Oral Presentation, School of Marine and Atmospheric Sciences Honors Research Symposium, Stony Brook University, Stony Brook, NY, May 9th, 2019.
- H. Joo**. *Ashley Schiff Preserve Awareness Assessment and Future*. Guest Lecture, Friends of the Ashley Schiff Preserve Annual Meeting, Stony Brook, NY, May 15th, 2019
- H. Joo**. *Use of Wetland Artifacts as Wetland Educational Tools in NE Asia*. Symposium Oral Presentation, 2011 Asian Wetland Symposium, Sabah, Malaysia, July 18-20th, 2011.
- H. Joo**, Jennifer Meikle, Sharon Pochron. *Did you know?: an awareness assessment on Stony Brook University's hidden gem, Ashley Schiff Preserve*. Poster Presentation, Earthstock Environmental Student Research Poster Exhibition, Stony Brook, NY, April 19th, 2019.
- H. Joo**, S. Pochron. *University nature preserve and public awareness: a case study*. Poster Presentation, 7th Long Island Natural History Conference 2019, Brookhaven, NY, March 22-23rd, 2019.
- I. Son, **H. Joo**, G. Kim, J. Kim, K. Bhatta, Y. Do. *Valuation of Village Ponds as Cultural Landscape Component in India: Preliminary Study*. Poster Presentation, Asian Wetland Symposium 2017, Saga, Japan, November 7-11th, 2017.
- H. Joo**, M. Fasanella, S. Pochron. *Awareness Assessment of Ashley Schiff Preserve, Stony Brook University*. Poster

Presentation, URECA Undergraduate Research Symposium, Stony Brook, NY, April 28th, 2016.

H. Joo, Y. Do, J. Kim, K. Bhatta. *Understanding of the current status and management practices of the village ponds in Chilika lagoon basin, Eastern India.* Poster Presentation, The 100th Ecological Society of America Annual Meeting, Baltimore, MD, August 9-14th, 2015

H. Joo, J. Kim, R. Im, A. Pattnaik, Y. Do. *Village ponds as important landscape components in Eastern India (1) Chilika Lagoon basin: Patterns of Distribution.* Poster Presentation, The 16th International Symposium on River and Lake Environment, Chuncheon, South Korea, August 24-27th, 2014.

Service, Outreach & Work Experiences

May. 2025-Present	• Mentor , Columbia University Climate School Mentoring Program
2025-Present	• Journal Review , Urban Forestry and Urban Planning
Aug. 2024-Present	• Communications Chair , Rutgers University Ecology Graduate Student Association (EcoGSA)
Jun.-Aug. 2021	• Volunteer Program Assistant , Partnerships for Parks – NYC Dept. of Parks and Recreations
Apr. 2021	• Panelist , Stony Brook University Sustainability Studies Program Alumni Panel
Apr. 2021	• Guest Lecturer , Paul W. Zuccaire Gallery, Staller Center for the Arts, Stony Brook University “Celebrating Environmental Awareness Month Featuring Annemarie Waugh and Evan Joo”.
2020-2022	• Volunteer Program Manager , Friends of the Ashley Schiff Preserve
Aug.-Dec. 2020	• Office of Admissions Intern , School of Professional Studies, Columbia University
2019-2022	• Alumni Representative/Social Media Manager , Friends of the Ashley Schiff Preserve
2016-2018	• Bandsman/Admin. Staff , Republic of Korea Army 2nd Operational Command Military Band
2014- 2016	• Student Member , EcoLeaders at Stony Brook University

Skills

- Proficient with Microsoft Word, PowerPoint, and Excel
- Skilled in ArcMap, ArcGIS Pro, and R
- Questionnaire design using Qualtrics and Google Forms, Institutional Review Board Human Subject permit work
- Fluent in Korean & English. Understanding of Written Chinese Characters
- Social Media platform management – Facebook, Instagram, MailChimp, WordPress website, Google Suite

Memberships and Affiliations

- Ecological Society of America
- Torrey Botanical Society