Sebastian A. Heilpern

Dept. of Earth System Science, Stanford Doerr School of Sustainability, Stanford University
heilpern@stanford.edu | biodiversity.stanford.edu

EDUCATION

2020: **Ph.D., Columbia University**. Ecology, Evolution & Environmental Biology
2015: **M.Sc., University of Chicago**. Ecology & Evolution
2010: **B.S., Cornell University**. Magna Cum Laude, Biology

ACADEMIC APPOINTMENTS

2026 - Present **Assistant Professor**, Dept. Earth System Science, Stanford Doerr School of Sustainability, Stanford University
2023 - 2025 **Eric & Wendy Schmidt AI in Science Postdoctoral Fellow**, Cornell University
2020 - 2023 **Cornell Presidential Postdoctoral Fellow**, Cornell University

PROFESSIONAL EXPERIENCE

2016 - 2025 **Technical Advisor, Amazon Waters Initiative** and **Citizen Science for the Amazon Project**, Wildlife Conservation Society
2010 - 2012 **Program Officer, Latin America and Caribbean Program**, Wildlife Conservation Society

PUBLICATIONS

*shared first authorship

Submitted / In Review / In Revision

2. Pacheco F., **Heilpern, S.A.**, R.M. Almeida, S. Sethi, M. Miranda, N. Ray, N. Barros, J. Cavali, C. Costa, C. Doria, J. Fan, K. Fiorella, B. Forsberg, M. Gomes, L. Greenstreet, M. Holgerson, D. McGrath, P. McIntyre, P. Moraes-Valenti, I. Oliveira, J.P.H.B. Ometto, F. Roland, A. Trindade, M. Ummus, W. Valenti, X. Xu, C. Gomes, A.S. Flecker. Siting aquaculture on degraded lands sustains win-win outcomes for food and conservation.
1. **Heilpern, S.A.**, F. Pacheco, M. Grimson, S. Sethi, R. Almeida, I. Miqueilez, R. Peters, G.A. Herrera-R, H. Angarita, R. Bernstein, V. Mao, P. McIntyre, M. Miranda, D. Qu, R. JP Schmitt, S. Thomas, A.C. Wilcox, C. Zarfl, C. Gomes, A. Flecker. Reconciling hydropower, decarbonization and biodiversity conservation through nature-based credits.

Peer-Reviewed Journals

34. Piland, N.C., T.B.A. Cuoto, M. Pulido-Velosa, J. Cruz, M. Varesse, G. Leite, **S.A. Heilpern**, A.A. Koning, J. Dutka-Gianelli, S. Jackson, P. Hyera, F. Hossain, T. Pavelsky, A.M. Gómez. T. Myint, W. Wisesjindawat-Fink, B. Kays, and E.P. Anderson. 2026. Public Participation in Tropical Conservation and Environmental Management Research: Toward a Locally Grounded and Reflexive Practice. *Biotropica* 58: e70149.
33. Mao, Y, Z. Qu, I. Miqueleiz, A. Ferber, S. Wolf, M Grimson, **S.A. Heilpern**, F. Pacheco, A.S. Flecker, P.B. McIntyre, and C. Gomes. 2025. Expanding Connected Components from Alternative Terminals: Addressing the UN 30x30 Worldwide Freshwater Conservation Goal. *In Proceedings of the Thirty-Fourth International Joint Conference on Artificial Intelligence (pp. 9808-9817).*
32. Jenkins, C., S. Athayde, C. Beveridge, S. Correa, J. Espinoza, **S.A. Heilpern**, G. Herrera-R, L. Lacy, P. Olivas, A. Oliveira, N. Piland, R. Utsunomiya, E. Anderson. 2025. The global importance of Amazonian freshwaters. *Frontiers in Ecology and the Environment* 23: e2868.

31. **Heilpern, S.A.,** Simon, F.W., Sethi, S.A., Fiorella, K.J., Flecker, A.S., Gomes, C. and McIntyre, P.B., 2025. Leveraging biodiversity to maximize nutrition and resilience of global fisheries. *Nature Sustainability* 8: 753-762
30. Anderson, E.P., A.C. Encalada, T.B.A. Cuoto, C. Beveridge, G.A. Herrera-R, **S.A. Heilpern**, R.M. Almeida, C. Cañas-Alvas, S.B. Correa, L.S. de Souza, F. Duponchelle, C. Garcia-Davila, M. Goulding, S. López-Casas, J.A. Maldonado-Ocampo, G. Miranda, M. Montoya, N.C. Piland, L. Victoria-Lacy, M. Varese, C.N. Jenkins. 2025. A baseline for tracking change over time in the ecological integrity of Western Amazon rivers. *Communications Earth & Environment* 6: 623.
29. Jane, S.*, **S.A. Heilpern***, J. Brenna, T. Detmer, C. Driscoll, C. Eagles-Smith, S. Giri, R. Glahn, K. Jirka, J. Kim , M. Montesdeoca, C. Olson, H. Gyu Park, E. Randall, P. McIntyre. 2025. Climate-Driven Deoxygenation of Lakes Alters the Nutrient-Toxin Profile of a Food Fish. *Environmental Science & Technology* 59: 9486-9496.
28. **Heilpern, S.A.** 2025. Counting dietary species richness for healthy people and ecosystems. *Nature Food* 6: 531-532
27. Athayde, S., R. Utsunomiya, L. Victoria-Lacy, C. Beveridge, C. Jenkins, J. Laufer, **S.A. Heilpern**, P. Olivas, E. Anderson. Interdependencies between Indigenous peoples, local communities and freshwater systems in a changing Amazon. *Conservation Biology* 39: e70034
26. Hecth, S., M. Schmik, R.N. Abers, E. Assad, D. Humphreys Bebbington, E. Brondizio, F. Costa, A.M. Durán Calisto, P. Fernside, R. Garrett, **S.A. Heilpern**, D. McGrath, G. Oliveira, H. Pereira, M. Pinedo-Vazquez. 2025. Amazonia in motion: Changing politics, development strategies, peoples, landscapes and livelihoods *Acta Amazonica* 54: e54hu22306
25. Grimson, M., Z. Qu, Z., Y. Mao, A. Feber, F. Pacheco, **S.A. Heilpern**, H. Angarita, A. Flecker, and C. Gomes. 2025. Strategies for compressing the Pareto frontier: Application to strategic planning of hydropower in the Amazon Basin. *Association for the Advancement of Artificial Intelligence* 9: 28015-28023
24. Pacheco, F.S., **S.A. Heilpern**, C. DiLeo, R.M. Almeida, S. Sethi, M. Miranda, N. Ray, N. Barros, J. Cavali, C. Costa, C. Doria, J. Fan, K. Fiorella, B. Forsberg, M. Gomes, L. Greenstreet, M. Holgerson, D. McGrath, P. McIntyre, P. Moraes-Valenti, I. Oliveira, J.P.H.B. Ometto, F. Roland, A. Trindade, M. Ummus, W. Valenti, X. Xu, C. Gomes, A.S. Flecker. 2025 Aquaculture expansion in the Amazon: challenges and opportunities for sustainable food production. *Nature Sustainability* 8: 234–244.
23. **Heilpern, S.A.**, A.S. Flecker, S. López-Casas, P. McIntyre, L. Moya, S. Sethi, K. Fiorella. 2025. Accessible, low-mercury, and nutritious fishes provide win-wins for conservation and public health. *One Earth* 8:1.
22. Couto, T.B.A., C.N. Jenkins, C.F. Beveridge, **S.A. Heilpern**, G.A. Herrera-R, N.C. Piland, C.G.Leal, J. Zuanon, C.R.C. Doria, M. Montoya, M.Varese, S.B. Correa, M. Goulding, and E.P. Anderson. 2024. Translating science into actions to conserve Amazonian freshwaters. *Conservation Science & Practice*: p.e13241.
21. Costa, F.D.A., Assad, E.D., Bebbington, D.H., Brondizio, E.S., Fearnside, P.M., Garrett, R., Hecht, S., Heilpern, S., McGRATH, D., Oliveira, G. and Pereira, H.D.S., 2024. Complex, diverse and changing agribusiness and livelihood systems in the Amazon. *Acta Amazonica* 54: p.e54es22096.
20. Qu, Z. M. Grimson, Y. Mao, **S.A. Heilpern**, I. Miqueleiz, F. Pacheco, A. Flecker, and C. Gomes. Strategies for compressing the Pareto frontier: Application to strategic planning of hydropower in the Amazon Basin. 2024. *In International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research* (pp. 141-157). Cham: Springer Nature Switzerland.
19. Fiorella, K.J., E.R.R. Bageant, S.H. Thilsted, **S.A. Heilpern**. 2024. Commercially traded fish portfolios mask household utilization of biodiversity in wild food systems. *PNAS* 121: e2403691121
18. Beveridge, C., J.C. Espinoza, S. Athayde, S.B. Correa, T.B.A. Cuoto, **S.A. Heilpern**, C.N. Jenkins, N. Piland, R. Utsunnomiya, S.W. Correa, and E.P. Anderson. 2024. The Andes-Amazon pathway: a foundational hydroclimate system for social-ecological system sustainability. *PNAS* 121:e2306229121

17. Herrera-R, G., **S.A. Heilpern**, T. Cuoto, L. Lacy, F. Duponchelle, S. Correa, A. Farah-Pérez, S. López-Casas, C. Cañas-Alva, C. Doria, E. Anderson. 2024 A synthesis of the diversity of freshwater migrations in the Amazon basin. *Fish and Fisheries* 25: 114-133.
16. **Heilpern, S.A.,** G.A. Herrera-R, K. Fiorella, A.S. Flecker, P. McIntyre. 2023. Species trait diversity sustains multiple dietary nutrients supplied by freshwater fisheries. *Ecology Letters* 26: 1887-1897.
15. **Heilpern, S.A.**, R. Almeida, K. Fiorella, D. Williams, A. Flecker and P. McIntyre. 2023. Nutritional challenges of substituting farmed animals for wild fish in human diets. *Environmental Research Letters* 18: 114030.
14. Rynaby Rengifo, J., L.C. Moya Vásquez, **S.A. Heilpern**, and E. Isasi-Catalá. 2022. Características de la pesca y el aporte nutricional del recurso pesquero en la comunidad Santa Rosa del Aripari, cuenca del Río Cahuapanas. *Folia Amaónica* 31: 1018-5674.
13. **Heilpern, S.A.**, S.A. Sethi, R.B. Barthem, V. da Silva Batista, C.R.C. Doria, F. Duponchelle, A. Garcia Vazquez, M. Goulding, V. Isaac, S. Naeem, and A.S. Flecker. 2022. Biodiversity underpins fisheries resilience to exploitation in the Amazon river basin. *Proceedings of the Royal Society B* 289: 20220726.
12. Almeida, R.M., R.J.P. Schmitt, A. Castelletti, A.S. Flecker, J. Harou, **S.A. Heilpern**, N. Kittner, G.M. Kondolf, J.J. Opperman, Q. Shi, C.P. Gomes, P.B. McIntyre. 2022. Strategic planning of hydropwer development: balancing benefits and socioenvironmental costs. *Current Opinion in Environmental Sustainability* 56: 101175.
11. Flecker et al. (including **S.A. Heilpern**). 2022. Reducing adverse impacts of Amazon hydropower expansion on people and nature. *Science* 375: 753-760.
10. **Heilpern, S.A.**, R. DeFries, A.S. Flecker, S. Sethi, M. Uriarte, and S. Naeem. 2021. Declining diversity of wild-caught species puts dietary nutrient supplies at risk. *Science Advances* 7: eabf9967.
9. Anujan, K., **S.A. Heilpern**, C. Prager, B. Weeks, and S. Naeem. 2021. Trophic complexity alters the diversity-multifunctionality relationship in experimental grassland mesocosms. *Ecology & Evolution* 11: 6471-6479.
8. **Heilpern, S.A.,** K. Fiorella, C. Cañas, A.S. Flecker, L. Moya, S. Naeem, S.A. Sethi, M. Uriarte, and R. DeFries. 2021. Substitution of inland fisheries with aquaculture and chicken undermines human nutrition in the Peruvian Amazon. *Nature Food* 2: 192-197.
7. Fiorella, K.J., H. Okronipa, K. Baker and **S.A. Heilpern**. 2021. Contemporary aquaculture: Implications for human nutrition. *Current Opinion in Biotechnology* 770: 83-90.
6. **Heilpern, S.A.**, K. Anujan, S. Naeem, and A. Osuri. 2020. Positive correlations in species functional contributions drive the response of ecosystem multifunctionality to biodiversity loss. *Proc. R. Soc. B* 287: 20192501.
5. **Heilpern, S.A.**, B. Weeks, and S. Naeem. 2018. Predicting ecosystem vulnerability to biodiversity loss from community composition. *Ecology* 99: 1099-1107.
4. Anderson, E., C. Jenkins, **S.A. Heilpern**, J. Maldonado-Ocampo, F. Carvajal-Vallejos, A. Encalada, J. Rivadeneira, M. Hidalgo, C. Cañas, H. Ortega, N. Salcedo, M. Maldonado, P.A. Tedesco. 2018. Fragmentation of Andes-to-Amazon connectivity by hydropower dams and associated consequences for natural and human systems. *Science Advances* 4: eaao1642.
3. **Heilpern, S.A.**, and J.T. Wootton. 2018. Process catalyzers in Amazonian rivers: large woody debris modifies ecosystem processes across freshwater habitats. *Ecosphere* 9: e02030.
2. **Heilpern, S.A.** 2015. Biodiversity: Include freshwater species. *Nature* 518: 167.
1. Capps, K. A. , L. G. Nico, M. Mendoza Carranza, W. Arevalo-Frias, A. J. Ropicki, **S.A. Heilpern**, R. Rodiles-Hernandez. 2011. Salinity tolerance of the exotic armored catfish (Siluriformes: Lorcariidae) in southern Mexico: potential new pathways for invasion. *Aquatic Conservation: Marine and Freshwater Ecosystems* 21: 528-540.

Books / Technical Reports

12. 180 coauthors including S.A. Heilpern. 2021. Science Panel for the Amazon. UN Sustainable Development Solutions Network.
11. Moya Vásquez, L.M., S. Ríos Torres, **S.A. Heilpern**, A. Cóndor Castillo, P. Naccarato, G. Alvarez Guzmán, M. Cueva Martínez, M. Soplin Bosmediano. 2021. Recursos pesqueros de la Amazonía: Guía sobre el valor nutricional de los peces comerciales en Loreto. Wildlife Conservation Society, Lima, Perú.
10. Zapata-Ríos G., C.S. Andreazzi, A.C. Carnaval, C. Doria, F. Duponchelle, A.S Flecker, J.M Guayasamín, **S.A. Heilpern**, C.N. Jenkins, C. Maldonado, D. Meneghelli, G. Miranda, R.M. Moraes, M. Silman, M.A.P.A. Silveira, G. Tabet, F. Trujillo, C. Ulloa Ulloa, J. Arieira. 2021. Chapter 3: Biological Diversity and Ecological Networks in the Amazon. In: Amazon Assessment Report 2021. United Nations Sustainable Development Solutions Network, New York, USA. DOI: 10.55161/DGNM5984
9. Hecht S., M. Schmink, R. Abers, E.D. Assad, D.H. Bebbington, E.S. Brondizio, F.A. Costa, A.M.D. Calisto, P.M. Fearnside, R. Garrett, **S.A. Heilpern**, D. McGrath, G. Oliveira, H.S. Pereira, M. Pinedo-Vazquez. 2021. Chapter 14: The Amazon in Motion: Changing Politics, Development Strategies, Peoples, Landscapes, and Livelihoods. In: Amazon Assessment Report 2021. United Nations Sustainable Development Solutions Network, New York, USA. DOI: 10.55161/NHRC642007
8. Costa F.A., M. Schmink, S. Hecht, E.D. Assad, D.H. Bebbington, E.S. Brondizio, P.M. Fearnside, R. Garrett, S.A. Heilpern, D. McGrath, G. Oliveira, H.S. Pereira, M. Pinedo-Vazquez. 2021. Chapter 15: Complex, Diverse and Changing Agribusiness and Livelihood Systems in the Amazon. In: Amazon Assessment Report 2021. United Nations Sustainable Development Solutions Network, New York, USA. DOI: 10.55161/CGAP765
7. Barlow J., A.L Lees, P. Sist, R. Almeida, C. Arantes, D. Armenteras, E. Berenguer, P. Caron, F. Cuesta, C. Doria, J. Ferreira, A. Flecker, **S.A. Heilpern**, M. Kalamandeen, N. Nascimento, M. Peña-Claros, C. Piponiot, P.S. Pompeu, C. Souza, J.F. Valentin. 2021. Chapter 27: Conservation measures to counter the main threats to Amazonian biodiversity. In: Amazon Assessment Report 2021. United Nations Sustainable Development Solutions Network, New York, USA. DOI: 10.55161/DTTQ9410
6. Barlow J., P. Sist, R. Almeid, C. Arantes, E. Berenguer, P. Caron, F. Cuesta, C. Doria, J. Ferreira, A.S. Flecker, **S.A. Heilpern**, M. Kalamandeen, A.L. Lees, N. Nascimento, M. Peña-Claros, C. Piponiot, P.S. Pompeu, C. Souza, J.F. Valentin. 2021. Chapter 28: Restoration Options for the Amazon. In: Amazon Assessment Report 2021. United Nations Sustainable Development Solutions Network, New York, USA. DOI: 10.55161/OSPD2912
5. Barlow J., P. Sist, R. Almeida, C. Arantes, E. Berenguer, P. Caron, F. Cuesta, C. Doria, J. Ferreira, A.S. Flecker, **S.A. Heilpern**, M. Kalamandeen, A.L. Lees, N. Nascimento, M. Peña-Claros, C. Piponiot, P.S. Pompeu, C. Souza, J.F. Valentin. 2021. Chapter 29: Restoration Priorities and Benefits within Landscapes and Catchments and Across the Amazon Basin. In: Amazon Assessment Report 2021. United Nations Sustainable Development Solutions Network, New York, USA. DOI: 10.55161/GGIR9016
4. **Heilpern, S.A**. 2019. Domesticating Earth's rivers. Ink Cap Press, New York, NY, USA
3. Pitman, N., A. Bravo, S. Claramunt, C. Vriesendorp, D. Alvira Reyes, A. Ravikumar, Á. del Campo, D. F. Stotz, T. Wachter, **S.A. Heilpern**, B. Rodríguez Grández, A. R. Sáenz Rodríguez, y/and R. C. Smith, eds. 2017. Perú: Medio Putumayo-Algodón. Rapid Biological and Social Inventories Report 28. The Field Museum, Chicago.
2. Pitman, N., C. Vriesendorp, L. Rivera Chávez, T. Wachter, D. Alvira Reyes, Á. del Campo, G. Gagliardi-Urrutia, D. Rivera González, L. Trevejo, D. Rivera González, y/and **S.A. Heilpern**, eds. 2015. Perú: Tapiche-Blanco. Rapid Biological and Social Inventories Report 27. The Field Museum, Chicago.
1. Pitman, N., C. Vriesendorp, D. Alvira, J.A. Markel, M. Johnston, E. Ruelas Inzunza, A. Lancha Pizango, G. Sarmiento Valenzuela, P. Álvarez-Loayza, J. Homan, T. Wachter, Á. del Campo, D.F.

Stotz y/and **S.A. Heilpern**, eds.. 2014. Perú: Cordillera Escalera-Loreto. Rapid Biological Inventories Report 26. The Field Museum of Natural History, Chicago. 396 Pages.

AWARDS AND GRANTS

Awards

2023: Schmidt Science Fellow
2023: AAAS Science & Technology Policy Fellow (*declined*)
2020: Society of Cornell Fellows
2020: University of Michigan Society of Fellows (*declined*)
2019: Best Student Talk in Aquatic Ecology, ESA 2019
2015 – 2020: Columbia University Dean's Fellowship
2015: Dean's Diversity Fellowship, Columbia University
2014: IIE Fulbright Fellowship, Peru (*declined*)
2014 - 2016: AAAS/Science Program for Excellence in Science
2013: 3rd place, National Science Innovation in Graduate Education Challenge (Team leader: S.A. Heilpern; with C. Stepien, C. Kyle, B. Krinsky, and R. Arthur)
2012 - 2015: Department of Education GAANN in Quantitative Ecology Fellow, University of Chicago
2010: National Science Foundation, REU Fellow, SoMAS SUNY Stony Brook

Grants

2025: Science for Nature and People Partnership (co-PI with Silvia López-Casas (Wildlife Conservation Society))
2025: The Nature Conservancy–Atkinson Center Joint Research (co-PI with Alex Flecker (Cornell), Igor Vejnovic (TNC))
2025: Schmidt Sciences Community Fund (co-PI with Amy Hinsley (Oxford University))
2024: Conservation, Food & Health Foundation (co-PI with Daniel Tregidgo (Instituto Mamirauá))
2024: Atkinson Venture Fund, Cornell Atkinson Center for Sustainability (co-PI with Alex Flecker (PI), Peter McIntyre, Carla Gomes, Suresh Sethi and Stefano Galelli)
2023: Gordon & Betty Moore Foundation and Wildlife Conservation Society
2023: Amazon +10, Fundação de Amparo à Pesquisa do Estado de São Paulo (co-PI with Felipe Siquiera Pacheco, Balbino Antonio Evangelista (PI), Carolina Rodrigues Costa Doria (PI), Jean Pierre Henry Balbaud Ometto (PI))
2021: Atkinson Venture Fund, Cornell Atkinson Center for Sustainability (co-PI with Alex Flecker (PI), Katie Fiorella, Carla Gomes, Suresh Sethi and Xiangtao Xu)
2018: Conservation, Food & Health Foundation (co-PI with Carlos Cañas and Mariana Montoya (Wildlife Conservation Society))
2018: New York Community Trust Edward Prince Goldman Scholarship in Science
2017: Conservation, Food & Health Foundation (co-PI with Carlos Cañas and Mariana Montoya (Wildlife Conservation Society))
2017: Institute for Latin American Studies Travel Grant
2017: Earth Institute Travel Grant
2016: E3B Graduate Student Field Research Grant
2016: Institute for Latin American Studies Travel Grant
2013: National Geographic Society Young Explorer's Grant
2013: Center for Latin American Studies Travel Grant, University of Chicago
2013: Pilot Research Fellowship, Organization for Tropical Studies

PRESENTATIONS

Invited talks

Heilpern, S.A., 2025. UN High Level Policy Forum, *Colombia Mission to the UN, NY*
Heilpern, S.A., 2025. Department of Integrative Biology, *University of Texas Austin, TX*
Heilpern, S.A., 2025. Department of Earth Systems Science, *Stanford, CA*
Heilpern, S.A., 2025. Department of Geography, *University of California Los Angeles, CA*
Heilpern, S.A., 2024. Department of Integrative Biology, *University of Texas Austin, TX*
Heilpern, S.A., 2024. Institute for Advanced Computational Sciences, *Stony Brook University, NY*
Heilpern, S.A., 2024. Department of Ecology and Evolution, *Stony Brook University, NY*
Heilpern, S.A., 2024. Department of Ecology, Evolution & Marine Biology, *University of California Santa Barbara, CA.*
Heilpern, S.A., 2023. Natural Capital Project, *Stanford University, CA.*
Heilpern, S.A., 2023. Amazon Waters Alliance, *Wildlife Conservation Society, Leticia, Colombia.*
Heilpern, S.A., 2023. School of Aquatic & Fisheries Science, *University of Washington, WA.*
Heilpern, S.A., 2023. Earth Commons, *Georgetown, DC.*
Heilpern, S.A., 2023. Environmental Sciences, Policy & Management, *UC Berkeley, CA.*
Heilpern, S.A., 2023. Department of Fisheries & Wildlife, *Michigan State University, MI.*
Heilpern, S.A., 2023. Biodiversity, Earth & Environmental Science, *Drexel University, PA.*
Heilpern, S.A., 2023. Environmental Studies, *University of Oregon, OR.*
Heilpern, S.A., 2023. Department of Ecosystem & Public Health, *Cornell University, NY.*
Heilpern, S.A., 2023. Department of Environmental Sciences, *American University, DC.*
Heilpern, S.A., 2022. Department of Natural Resources & the Environment, *Cornell University, NY.*
Heilpern, S.A., 2022. Amazon Sustainable Landscapes, *World Bank*
Heilpern, S.A., 2022. Lancaster Environment Centre, *Lancaster University, Lancaster, UK.*
Heilpern, S.A., 2022. Distinguished Visitor in Organismal Biology Symposium, *Cornell University, NY.*
Heilpern, S.A., 2022. Department of Biology, *New York University, NY.*
Heilpern, S.A., 2021. Sustainable food systems in the Amazon, *UN Food Systems Summit*
Heilpern, S.A., 2021. Citizen Science for the Amazon Network, *Wildlife Conservation Society*
Heilpern, S.A., 2021. School for Environment and Sustainability, *University of Michigan, MI.*
Heilpern, S.A., 2021. Ecology, Evolution & Environmental Biology, *Columbia University*, *NY.*
Heilpern, S.A., 2020. Department of Earth and Environment. *Florida International University, FL.*
Heilpern, S.A., 2018. Dirección Regional de la Producción-Loreto, *Iquitos, Peru*
Heilpern, S.A., 2016. Servicio Nacional de Areas Protegidas, *Iquitos, Peru.*

Contributed talks

Heilpern, S.A., et al. 2024. Reconciling hydropower, decarbonization and biodiversity conservation through nature-based credits. American Geophysical Union, Washington D.C., USA
Heilpern, S.A., et al. 2024. Accessible, low-mercury, and nutritious fishes provide win-wins for conservation and public health. American Geophysical Union, Washington D.C., USA
Heilpern, S.A., G.A. Herrera-R, K.J. Fiorella, A.S. Flecker, P.B. McIntyre. 2024. Biodiversity for nutritious and sustainable global fisheries. Society for Conservation Biology, Vancouver, BC, Canada
Heilpern, S.A., G.A. Herrera-R, K.J. Fiorella, A.S. Flecker, P.B. McIntyre. 2023. Biodiversity for nutritious and sustainable global fisheries. American Geophysical Union, San Francisco, CA.
Heilpern, S.A., G.A. Herrera-R, K.J. Fiorella, A.S. Flecker, P.B. McIntyre. 2022. Functional diversity sustains dietary nutrients supplied by freshwater fisheries. Ecological Society of America, Montreal, Canada.
Heilpern, S.A., G.A. Herrera-R, K.J. Fiorella, A.S. Flecker, P.B. McIntyre. 2022. Functional diversity sustains dietary nutrients supplied by freshwater fisheries. Joint Aquatic Science Meeting, Grand Rapids, IL.
Heilpern, S.A., R. De Fries, K.J. Fiorella, A.S. Flecker, S. Sethi, M. Uriarte, S. Naeem. 2021. Declines in freshwater diversity put dietary nutrient supplies at risk. Society for Freshwater Science.

Heilpern, S.A., S. Sethi, C. Doria, F. Duponchelle, V. Batista, V. Isaac, and A.S. Flecker. 2019. Community-consequences of indiscriminate exploitation in large tropical rivers. Ecological Society of America, Louisville, KY ****Received ESA 2019 Award for best student talk in Aquatic Ecology ****
Heilpern, S.A., S. Sethi, C. Doria, F. Duponchelle, V. Batista, V. Isaac, and A.S. Flecker. 2019. Community-consequences of indiscriminate overharvesting in large tropical rivers. Society for Freshwater Science, Salt Lake City, UT
Heilpern, S.A., M. Varese, G. Leite, C. Hanks and C. Wood. 2019. The Citizen Science for the Amazon Project: Tracking Fish Migrations to Improve Sustainable Management and Empower Citizens Across the Amazon Basin. Society for Freshwater Science, Salt Lake City, UT
Heilpern, S.A., B. Weeks, and S. Naeem. 2018. Predicting ecosystem vulnerability to biodiversity loss from community composition. Ecological Society of America, New Orleans, LA
Heilpern, S.A., B. Weeks, and S. Naeem. 2017. Community level trait statistics predict the vulnerability of ecosystem services to biodiversity loss. Annual Princeton, Penn, Rutgers and Columbia Conference, New York, NY
Heilpern, S.A and T. Wootton. 2016. Disentangling the ecosystem consequences of deforestation and overfishing in a lowland Amazonian floodplain river system, Annual Princeton, Penn, Rutgers and Columbia Conference, Philadelphia, PA
Heilpern, S.A., and J.T. Wootton. 2015. Process catalyzers in rivers: Large woody debris and its impact on Amazonian floodplain rivers. Columbia University, New York, NY.
Heilpern, S.A. 2014. The influences of large woody debris in tropical floodplain river food web and ecosystem dynamics. University of Chicago, Chicago, Illinois.
Heilpern, S.A. 2014. Disentangling the ecosystem consequences of deforestation and overfishing in an Amazonian floodplain river, Cocha Cashu Biologcal Station, Peru.

TEACHING AND MENTORING

Cornell University, Ithaca, NY
Teaching Assistant
- NTRES 4340 International Conservation and Development: Communities and the Management of Natural Resources (2010)

Guest Lectured
- Stream Ecology (2022, 2023)
- Graduate Student Core Course (2022, 2023)

Training
- Inclusive Teaching Workshop (2022)
- Intergroup Dialogue Project (2021)

Students Mentored: Demetra Williams, Claire DiLeo, Avery Sirwatka

Columbia University, New York, NY
Teaching Assistant
- EEEB G4655 Biodiversity, Conservation and Social Change (2018)
- EEEB U3087 Conservation Biology (2017)
- EEEB U2001 Environmental Biology I (2016)

Guest Lectured
- Sustainable Development in the Amazon (2021)
- Introduction to Conservation Biology (2019)

Students Mentored: Joe Peterson, Bowen Cho, Joe Ortiz

Universidad de la Amazonia Peruana
Students Mentored: Renzo Arbildo Tello, Lorenzo Díaz, Jhonnatan Rynaby

University of Chicago

Teaching Assistant
- BIOS 236 Animal Behavior (2014)
- BIOS 152 Tropical Ecology: Biodiversity and Human Impacts (2013)

Training
- Teaching training for the Biological Sciences (2014)

SERVICE

Ad hoc Reviewer:
Biotropica, BioScience, Conservation Biology, Ecosphere, Ecology & Society, Fish & Fisheries, Frontiers in Ecology and Evolution, Methods in Ecology and Evolution, Nature, Nature Communications, Proceedings of the Royal Society B, Proceedings of the National Academy of Sciences

Professional Affiliations:
Society for Freshwater Science
Ecological Society of America

Working groups / Professional workshops:
2020 - Freshwater Conservation Targets for the Amazon (FIU - WCS)
2020 - Science Panel for the Amazon (UN Sustainable Development Solutions Network)
2017 - 2019 Amazon Dams (Atkinson Center for a Sustainable Future, Cornell University)
2017 - 2018 Ríos Vivos Andinos (FIU - USAID)
2016 - Iniciativa Aguas Amazónicas (Wildlife Conservation Society)

Volunteer:
2020 - Working group on improving recruitment of underrepresented groups in Ecology and Evolutionary Biology, Cornell University
2017 - 2019 E3B Department Student Representative, Columbia University
2016 - 2019 E3B Department Organizer, GWC-UAW Local 2110, Columbia University
2013 - 2015 Ecology and Evolution Graduate Student Representative, University of Chicago
2012 - 2015 Department Organizer, Graduate Students United, University of Chicago
2012 - 2015 Co-founder and Board Member, Multicultural Graduate Community, University of Chicago