

LISANNE S. PETRACCA, PH.D.

Assistant Professor of Carnivore Ecology
Caesar Kleberg Wildlife Research Institute and Texas A&M - Kingsville
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<https://lisannepetracca.weebly.com/>

Research interests: Carnivore ecology; Quantitative ecology;
Geospatial analysis; Threatened species conservation

EDUCATION

State University of New York College of Environmental Science and Forestry, Syracuse, NY

PH.D. IN ECOLOGY, December 2018

GPA: 4.0 of 4.0

Dissertation title: Spatial and behavioral ecology of large carnivores at the human-wildlife interface: Insights for species conservation within and between protected areas

Academic advisor: Dr. Jacqueline Frair

Duke University, Nicholas School of the Environment, Durham, NC

MASTER OF ENVIRONMENTAL MANAGEMENT, May 2010

Certificate of Geospatial Analysis

Certificate of International Development Policy

GPA: 3.87 of 4.0

Concentration: Ecosystem science and conservation

Thesis: Use of site occupancy modeling to delineate a jaguar corridor in southern Belize

Tufts University, School of Arts and Sciences, Medford, MA

BACHELOR OF SCIENCE, *summa cum laude and high thesis honors*, May 2006

GPA: 3.84 of 4.0

Triple major: Environmental studies, Psychology, Biomedical engineering systems

Thesis: The emotional modulation of memory

GRANTS AND FELLOWSHIPS

Robert L. Burgess Outstanding Doctoral Scholar Award*, SUNY-ESF, 2018	\$750
*awarded to the most accomplished doctoral student at the culmination of their program	
Kaplan Graduate Research Award, Panthera, 2016-2018	\$15,000
Wilford A. Dence Fellowship for Excellence in Wildlife Science*, SUNY-ESF, 2017	\$4,800
*awarded to the top SUNY-ESF graduate student in the wildlife sciences	
Alumni Association Graduate Student Grant, SUNY-ESF, 2016-2017	\$1,900
Graduate Student Association (GSA) Research Grant, SUNY-ESF, 2017	\$500
Office of Instruction & Graduate Studies (OIGS) Travel Grant, SUNY-ESF, 2016-2017	\$1,250
Graduate Student Association (GSA) Travel Grant, SUNY-ESF, 2015-2016	\$500
National Geographic Big Cats Initiative Research Grant (PI: Rudi van Aarde), 2010	\$20,000
Doris Duke Conservation Fellowship, Doris Duke Charitable Foundation, 2009-2010	\$35,000
SIDG-Lazar Foundation Research Grant, Duke University, 2009	\$300
Nicholas School International Internship Fund Research Grant, Duke University, 2009	\$500
Nicholas School of the Environment Merit Scholarship, Duke University, 2008-2010	\$30,000
Andrew Mellon Scholarship, Duke University, 2008-2010	\$4,000
Tufts Summer Scholars Research Grant, Tufts University, 2005	\$4,500

OTHER ACADEMIC AWARDS AND ACHIEVEMENTS

National Science Foundation Graduate Research Fellowship Program, Honorable Mention	2016
Ford Foundation Fellowship Program Predoctoral Competition, Honorable Mention	2016

Best Speed Talk, Student Conference on Conservation Science, New York, NY	2015
Class of 2010 Commencement Speaker, Nicholas School of the Environment, Duke University	2010
Phi Beta Kappa Honor Society, Tufts University	2006
Psi Chi Honor Society, Tufts University	2006
Dean's List, Tufts University	2002-2006

PUBLICATIONS

Elbroch, M.L., **Petracca, L.S.**, O'Malley, C., and H.R. Robinson. 2022. Analyses of national mountain lion harvest indices yield ambiguous interpretations. *Ecological Solutions and Evidence*.

Tear, T.H., Wolff, N.H., Lipsett-Moore, G.J., Ritchie, M.E., Ribeiro, N.S., **Petracca, L.S.**, Lindsey, P.L., Hunter, L., Loveridge, A.J., and F. Steinbruch. 2021. A burning question: Can savannah fire management generate enough carbon revenue to restore Africa's rangelands and fill Protected Area funding gaps? *One Earth*.
<https://doi.org/10.1016/j.oneear.2021.11.013>

Gálvez, N., Infante, J., Fernandez, A., Díaz, J., and **L.S. Petracca**. 2021. Land use intensification coupled with free-roaming dogs as potential defaunation drivers of mesocarnivores in agricultural landscapes. *Journal of Applied Ecology*. <https://doi.org/10.1111/1365-2664.14026>

Salom-Pérez, R., Corrales-Gutiérrez, D., Araya-Gamboa, D., Espinoza-Muñoz, D., Finegan, B., and **L.S. Petracca**. 2021. Forest cover mediates large and medium-sized mammal occurrence in a critical link of the Mesoamerican Biological Corridor. *PLOS ONE*. <https://doi.org/10.1371/journal.pone.0249072>

Petracca, L.S., Frair, J.L., Bastille-Rousseau, G., Macdonald, D.W., and A.J. Loveridge. 2021. Harassment-induced changes in lion space use as a conflict mitigation tool. *Conservation Science and Practice*.
<https://doi.org/10.1111/csp2.373>

Powers, K., **Petracca, L.S.***, MacDuff, A.J., and J.L. Frair. 2021. A pragmatic approach for determining otter distribution from disparate occurrence records. *Journal of Wildlife Management*. <https://doi.org/10.1002/jwmg.21968>

***corresponding author**

Henschel, P., **Petracca, L.S.**, Ekwanga, S., Ryan, S.D., and L. Frank. 2020. Census and distribution of large carnivores in the Tsavo National Parks, a critical East African wildlife corridor. *African Journal of Ecology*.
<https://doi.org/10.1111/aje.12730>

Petracca, L.S., Frair, J.L., Bastille-Rousseau, G., Hunt, J.E., Macdonald, D.W., Sibanda, L., and A.J. Loveridge. 2019. The effectiveness of hazing African lions as a conflict mitigation tool: Implications for carnivore management. *Ecosphere*.
<https://doi.org/10.1002/ecs2.2967>

Petracca, L.S., Funston, P.J., Henschel, P., Cohen, J.B., MacLennan, S., and J.L. Frair. 2019. Modeling community occupancy from line transect data: A case study with large mammals in post-war Angola. *Animal Conservation*.
<https://doi.org/10.1111/acv.12555>

Lindsey, P.A.*, Miller, J.R.B.*, **Petracca, L.S.***, Coad, L., Dickman, A.J., Fitzgerald, K.H., Flyman, M.V., Funston, P.J., Henschel, P., Kasiki, S., Knights, K., Loveridge, A.J., Macdonald, D.W., Mandisodza-Chikerema, R.L., Nazerali, S., Plumptre, A.J., Stevens, R., Van Zyl, H.W., and Hunter, L.T.B. 2018. More than \$1 billion needed annually to secure Africa's protected areas with lions. *Proceedings of the National Academy of Sciences* 115 (45), 10788-10796.
<https://doi.org/10.1073/pnas.1805048115>

***shared first-authorship**

Petracca, L.S., Frair, J.L., Cohen, J.B., Calderón, A.P., Carazo-Salazar, J., Castañeda, F., Corrales-Gutiérrez, D., Foster R.J., Harmsen, B., Hernández-Potosme, S., Herrera, L., Olmos, M., Pereira, S., Robinson, H.S., Robinson, N., Salom-Pérez, R., Urbina, Y., Zeller, K.A., and Quigley, H. 2018. Robust inference on large-scale species habitat use with interview data: the status of jaguars outside protected areas in Central America. *Journal of Applied Ecology* 55 (2), 723-734. <https://doi.org/10.1111/1365-2664.12972>

Lindsey, P.A., Chapron, G., **Petracca, L.S.**, Burnham, D., Hayward, M.W., Henschel, P., Hinks, A.E., Garnett, S.T., Macdonald, D.W., Macdonald, E.A., Ripple, W.J., Zander, K., and Dickman, A. 2017. Relative efforts of countries to

conserve world's megafauna. *Global Ecology and Conservation* 10, 243-252.
<https://doi.org/10.1016/j.gecco.2017.03.003>

Lindsey, P.A.*, **Petracca, L.S.***, Funston, P.J., Bauer, H., Dickman, A., Everatt, K., Flyman, M., Henschel, P., Hinks, A.E., Kasiki, S., Loveridge, A., Macdonald, D.W., Mandisodza, R., Mgoola, W., Miller, S.M., Nazerali, S., Siegel, L., Uiseb, K., and Hunter, L.T.B. 2017. The performance of African protected areas for lions and their prey. *Biological Conservation* 209, 137-149. <http://dx.doi.org/10.1016/j.biocon.2017.01.011>

***shared first-authorship, Editor's Choice**

Petracca, L.S., and Frair, J.L. 2017. When methodological flaws limit inference: a response to Caruso et al. (2016). *Oryx*.
<https://doi.org/10.1017/S0030605316000788>

Henschel, P., **Petracca, L.S.***, Hunter, L., Kiki, M., Sewade, C., Tehou, A., and Robinson, H.S. 2016. Determinants of persistence in a Critically Endangered lion (*Panthera leo*) population. *Frontiers in Ecology and Evolution* 4, 110.
<http://dx.doi.org/10.3389/fevo.2016.00110>

***corresponding author**

Di Minin, E., Slotow, R., Hunter, L.T.B., Montesino Pouzols, F., Toivonen, T., Verburg, P.H., Leader-Williams, N., **Petracca, L.S.**, and Moilanen, A. 2016. Global priorities for national carnivore conservation under land use change. *Scientific Reports* 6, 23814. <http://doi.org.esf.idm.oclc.org/10.1038/srep23814>

Petracca, L.S., Hernández-Potosme, S., Obando-Sampson, L., Salom-Pérez, R., Quigley, H., and Robinson, H.S. 2014. Agricultural encroachment and lack of enforcement threaten connectivity of range-wide jaguar (*Panthera onca*) corridor. *Journal for Nature Conservation* 22(5), 436–444. <https://doi.org/10.1016/j.jnc.2014.04.002>

Cuyckens, G.A.E., Falke, F., and **Petracca, L.S.** 2014. Jaguar *Panthera onca* in its southernmost range: use of a corridor between Bolivia and Argentina. *Endangered Species Research* 26:167–177. <https://doi.org/10.3354/esr00640>

Petracca, L.S., Ramirez-Bravo, O.E., and Hernandez-Santin, L. 2013. Occupancy estimation of jaguar *Panthera onca* to assess the value of east-central Mexico as a jaguar corridor. *Oryx* 48(1), 133-140.
<https://doi.org/10.1017/S0030605313000069>

Jacobson, A.P., Cattau, M.E., Riggio, J.S., **Petracca, L.S.**, and Fedak, D.A. 2013. Distribution and abundance of lions in northwest Tete Province, Mozambique. *Tropical Conservation Science* 6(1):87-107.
<https://doi.org/10.1177/194008291300600110>

RESEARCH AND PROFESSIONAL EXPERIENCE

Assistant Professor
Jan 2023 – Present

Caesar Kleberg Wildlife Research Institute and Texas A&M – Kingsville, Kingsville, TX
Assistant Professor of Carnivore Ecology, with a focus on ocelot recovery in the United States. Research interests will include movement and behavioral ecology, population parameter estimation, resource selection, habitat restoration, intraguild interactions, and genetics for carnivores in South Texas and beyond. Ocelot recovery work will be done in partnership with the East Foundation.

Postdoctoral Scholar
June 2020 – Dec 2022

University of Washington and Washington Cooperative Fish and Wildlife Research Unit, Seattle, WA
Analytical lead for the development of a spatially-explicit projection model to assess grey wolf population dynamics in Washington State. Research goals include the estimation of demographic rates (survival, recruitment, dispersal), development of simulation scenarios to evaluate the effects of wolf management in Washington, and assessment of progress toward population recovery. Done in collaboration with the Washington Department of Fish and Wildlife (WDFW). A second project, in collaboration with US Fish and Wildlife Service (USFWS), focused on the optimization of tufted puffin monitoring across their North American range.

Roosevelt Postdoctoral Scholar

SUNY-ESF, Syracuse, NY
Served as the spatial ecology project lead for the Roosevelt Wild Life Research Station. Main

Jan 2020 – May 2020 focus was the analysis of bat habitat use surrounding the Silver Mountain Hibernaculum (Upper Peninsula, Michigan) during spring emergence and fall swarm as it related to the management of white-nose syndrome. Done in collaboration with the US Forest Service. Additional collaboration on mammal space use and ecology with the Wildlife Conservation Society (WCS).

Conservation Scientist **Panthera**, New York, NY
Jan 2019 – Dec 2019 Specialized in the statistical analysis of spatial data in both Bayesian and Maximum Likelihood frameworks to inform felid conservation efforts, with a focus on advanced occupancy modeling. Additional analyses included Resource Selection Functions (RSF), Step Selection Functions (SSF), generalized linear mixed models (GLMMs), and applications of survival and connectivity models.

Geospatial Analyst **Panthera**, New York, NY
Nov 2010 – Dec 2018 Primary responsibility is the statistical analysis of ecological data to model felid presence and distribution. Additional projects for Panthera's Jaguar, Lion, Tiger, and Snow Leopard Programs include increasing the capacity of our field staff via in-country GIS and statistical workshops, classifying land cover imagery and assessing landscape change in project sites, managing telemetry data, and creating publication-quality maps and GIS layers for Panthera staff and collaborators (IUCN, National Geographic).

Wilderness Fellow **National Park Service**, Harrison, AR
Aug 2010 – Oct 2010 Selected by the National Park Service to devise a Wilderness Stewardship Plan for Buffalo National River, Arkansas. Responsibilities included defining the wilderness character of the area and engaging park staff in the tenets of wilderness management. Founded "Marshalls to Mountains Day," an initiative that raised nearly \$2,500 to bring 90 at-risk Marshall Islander youth from Springdale, AR to the Buffalo River.

Graduate Researcher **Big Cats Initiative (BCI)**, Tete Province, Mozambique
July 2010 – Aug 2010 Collaborated with PI Rudi van Aarde at the Conservation Ecology Research Unit, University of Pretoria, to assess the population status of lions in Tete Province, Mozambique. Research team received a \$20,000 grant from National Geographic to conduct a lion survey via community-based interviews and callback stations. Co-authored the interview protocol, conducted local interviews, and performed statistical analysis on interview data.

Jaguar Corridor Initiative Project Manager **Panthera**, Belmopan, Belize
May 2010 – July 2010 Managed a research team to verify the presence of jaguar and six jaguar prey species. Data collected from interviews with 90 hunters and farmers were analyzed in a site occupancy framework to identify the Central Belize Jaguar Corridor. This corridor has since been incorporated in the country's protected areas system.

Graduate Researcher **Big Cats Initiative (BCI)**, Duke University, Durham, NC
Jan 2010 – May 2010 Served on a team of graduate students that produced cutting-edge maps of current lion distribution and areas of high conservation concern. Maps used strategically by PI Dr. Stuart Pimm to reinforce the immediacy of lion conservation efforts.

Jaguar Corridor Initiative Project Manager **Panthera**, Punta Gorda, Belize
Jun 2009 – Aug 2009 Managed a research team that conducted 184 interviews with hunters and farmers in 38 villages to determine the population status of jaguar and seven jaguar prey species. Data analyzed via site occupancy modeling to identify the Southern Belize Jaguar Corridor.

Co-Coordinator, Student International Discussion Group **Nicholas School of the Environment**, Duke University, Durham, NC
Sep 2008 – May 2009 Successfully fundraised close to \$18,000 while managing a graduate student group focused on global environmental issues. Skillfully organized all aspects of a symposium attended by 200 people, with keynote speaker Dr. Carl Safina and representatives from the WWF, The Nature Conservancy, and the Rockefeller Foundation.

High School Science **Marshall Islands Ministry of Education**, Majuro, Marshall Islands

Instructor Aug 2007 – May 2008	Designed the first science curriculum at a high school for at-risk Pacific island youth. Effectively directed all classroom activities and laboratory exercises for 91 students in the 11th and 12th grades.
Primary School English Instructor July 2006 – May 2007	Marshall Islands Ministry of Education , Namdrik Atoll, Marshall Islands Served as the only non-native on the remote outer atoll of Namdrik. Instructed English as a Second Language (ESL) classes to 96 children in grades K-8. Overcame a lack of resources to conduct novel lesson plans in the Marshallese and English languages.

CONFERENCE PRESENTATIONS

Petracca, L.S., et al. June 2022. Merging an IPM and IBM to project population dynamics of recolonizing species. Oral presentation. **International Statistical Ecology Conference**, virtual.

Petracca, L.S., et al. November 2021. A semi-spatial integrated population model to assess population dynamics of a recolonizing species. Oral presentation. **The Wildlife Society 2021 Annual Conference**, virtual.

Petracca, L.S., et al. June 2021. A semi-spatial integrated population model to assess population dynamics of a recolonizing species. Oral presentation. **EURING 2021 Analytical Meeting and Workshop**, virtual.

Petracca, L.S. October 2020. Modeling community occupancy from line transect data: A case study with large mammals in post-war Angola. Oral presentation. **The Wildlife Society Annual Conference**, virtual.

Petracca, L.S. February 2020. *The effectiveness of hazing African lions as a conflict mitigation tool: Implications for carnivore management*. Oral presentation. **New York State Chapter of The Wildlife Society Annual Meeting**, Fayetteville, NY.

Petracca, L.S. October 2019. *Sex-Mediated Behavioral Response to Induced Risk in a Large Carnivore*. Oral presentation. **Joint Annual Conference of the American Fisheries Society and The Wildlife Society**, Reno, NV.

Petracca, L.S.* October 2019. *Robust Inference on Large-Scale Species Habitat Use with Interview Data Prone to False Positives*. Invited oral presentation. **Joint Annual Conference of the American Fisheries Society and The Wildlife Society**, Reno, NV.

*Invited talk

Petracca, L.S. July 2019. *Effects of a human-carnivore conflict mitigation program on the space use of a threatened felid*. Oral presentation. **International Congress for Conservation Biology**, Kuala Lumpur, Malaysia.

Petracca, L.S. October 2016. *Robust inference on species distribution in human-dominated landscapes using interview data: The status of jaguar across Central America*. Oral presentation. **The Wildlife Society Annual Conference**, Raleigh, NC.

Petracca, L.S. August 2016. *Robust inference on species distribution in human-dominated landscapes using interview data: The status of jaguar across Central America*. Oral presentation. **Ecological Society of America Annual Meeting**, Ft. Lauderdale, FL.

Petracca, L.S. October 2015. *Jaguar (Panthera onca) habitat use outside protected areas in Central America*. Oral presentation. **Student Conference on Conservation Science**, American Museum of Natural History, New York, NY.

Petracca, L.S., Hernández-Potosme, S., Obando-Sampson, L., Salom-Pérez, R., Quigley, H., and Robinson, H.S. October 2014. *La invasión agrícola y la falta de hacer cumplir las leyes amenazan la conectividad del corredor del jaguar (Panthera onca) del amplio rango*. Oral presentation (in Spanish). Annual meeting, **Sociedad Mesoamericana para la Biología y la Conservación**, Copán Ruinas, Honduras.

Petracca, L.S., Hernández-Potosme, S., Obando-Sampson, L., Salom-Pérez, R., Quigley, H., and Robinson, H.S. May 2014. *La invasión agrícola y la falta de hacer cumplir las leyes amenazan la conectividad del corredor del jaguar (Panthera onca) del amplio rango*. Oral presentation (in Spanish). **Simposio Internacional Conservación Felinos América**, Chilamate, Costa Rica.

Petracca, L.S., Ramirez-Bravo, O.E., and Hernandez-Santin, L. July 2013. *Occupancy estimation of jaguar (Panthera onca) in east-central Mexico: A corridor uncertain*. Oral presentation. **International Congress for Conservation Biology**, Baltimore, MD.

Petracca, L.S., Carazo, J., Castañeda, F., Che, C., Corrales, D., Hernandez-Potosme, S., Herrera, L., Obando, L., Olmos, M., Pereira, S., Quigley, H., Ruano, G., Salom-Perez, R., and Urbina, Y. September 2012. *La Iniciativa del Corredor del Jaguar: Una Actualización para Mesoamérica*. Oral presentation (in Spanish). Annual meeting, **Sociedad Mesoamericana para la Biología y la Conservación**, Mérida, México.

Petracca, L.S. April 2010. *Use of site occupancy modeling to delineate a jaguar corridor in southern Belize*. Oral presentation. Nicholas School Masters of Environmental Management Symposium, **Duke University**, Durham, NC.

UNIVERSITY-BASED TEACHING EXPERIENCE

EFB 298: Research Assistantship. Course Creator and Instructor. Spring and Fall 2020. Led a research team of nine undergraduate students in establishing baseline estimates of felid densities globally. Instructed students on mark-recapture analysis (spatially explicit and otherwise), non-invasive monitoring tools, building spatial databases with Geographic Information Systems (GIS) software, and how to critically read peer-reviewed literature. **SUNY-ESF**, Syracuse, NY.

EFB 797 (3): Foraging and Movement Ecology. Course Creator and Co-Instructor. Fall 2016. Developed graduate-level seminar to explore the theoretical basis of foraging ecology. Course material was based upon *Foraging Theory* (1986) by Stephens and Krebs and *Foraging Behavior and Ecology* (2007) by Stephens et al. Topics included optimal foraging theory, the basic prey and patch models, and newer developments such as signal detection theory, spatial memory and learning, "post-kill" phenomena, the landscape of fear, and the application of game theory to social foraging. **SUNY-ESF**, Syracuse, NY.

EFB 797 (11): Mixed Effects Models in R. Course Creator and Co-Instructor. Spring 2016. Developed graduate-level seminar in mixed effects modeling. Course material was derived from *Mixed Effects Models and Extensions in Ecology with R* (2009) by Zuur et al. and included Generalized Additive Models (GAM), the linear mixed effects model, temporal and spatial autocorrelation, zero-truncated and zero-inflated models, Generalized Estimation Equations (GEE), and Generalized Linear and Additive Mixed Models (GLMM/GAMM). **SUNY-ESF**, Syracuse, NY.

EFB 496 (01): Wildlife Field Techniques. Graduate Teaching Assistant. May 2015. Assisted in instruction of field-based undergraduate course in wildlife field methods. Techniques included radiotelemetry, small mammal trapping, non-invasive sampling with camera traps and track plots, grassland bird surveys, and vegetation sampling. **SUNY-ESF**, Syracuse, NY.

ENVIRON 214: Landscape Ecology. Graduate Teaching Assistant. Fall 2009. Assisted professor in instruction of graduate course covering agents of landscape pattern (physical template, biotic processes and disturbance regimes), scaling techniques, and implications of pattern (metapopulations, communities and biodiversity, and ecosystem processes). Graded course assignments and assisted students with conceptual understanding. **Nicholas School of the Environment at Duke University**, Durham, N.C.

INVITED LECTURES

Petracca, L.S. November 2021. Chasing lions & how this can assist large-scale species conservation. Guest lecture in 80-person upper undergraduate course (RANG 374: Habitat Conservation and Management), **South Dakota State University**, Brookings, SD.

Petracca, L.S. March 2021. Novel analytical approaches in guiding big cat conservation and management. Hoch Cunningham Environmental Lecture Series, **Tufts University**, Medford, MA.

Petracca, L.S. October 2020. Novel analytical approaches in guiding big cat conservation and management. School of Aquatic and Fishery Sciences (SAFS) Quantitative Seminar, **University of Washington**, Seattle, WA.

Petracca, L.S. September 2020. Chasing lions & how this can assist large-scale species conservation. Nicholas School of the Environment Graduate Seminar, **Duke University**, Durham, NC.

Petracca, L.S. May 2020. Chasing lions & how this can help their conservation. **Draper Natural History Museum**, Cody, WY.

Petracca, L.S. November 2019. *Metapopulations and the Mesoamerican Jaguar Corridor*. Nicholas School of the Environment Graduate Seminar, **Duke University**, Durham, NC.

Petracca, L.S. October 2019. *Tackling human-carnivore conflict on the African continent*. **Allegheny College**, Meadville, PA.

Petracca, L.S. November 2012 and November 2013. *Geospatial initiatives at Panthera*. Nicholas School of the Environment Graduate Seminar, **Duke University**, Durham, NC.

Petracca, L.S. November 2012. *The use of Geographic Information Systems (GIS) in the conservation of the world's big cat species*. Environmental Studies Lunch & Learn Program, **Tufts University**, Medford, MA.

WORKSHOPS

Petracca, L.S and A.E. Cheeseman. April 2021. *Geospatial Analysis in R*. Half-day workshop that covered the basics of geospatial data and use of spatial data in R, namely the manipulation and analysis of vector and raster data. **Northeast Association of Fish & Wildlife Agencies Annual Meeting (NEAFWA)**.

Petracca, L.S and A.E. Cheeseman. October 2020. *Geospatial Analysis in R*. One-day workshop with two sold-out sessions reaching ~100 participants. Workshop covered (1) the basics of geospatial data and use of spatial data in R, (2) manipulation and analysis of vector and raster data, (3) cartography, and (4) looping and automation, all within the R environment. **The Wildlife Society 2020 Annual Conference**.

Petracca, L.S. August 2015. *Los Fundamentos de Sistemas de Información Geográfica (SIG)*. Five-day graduate-level workshop (in Spanish). **Universidad Autónoma de Querétaro, Querétaro, México**.

Petracca, L.S. March 2014. *Una introducción a sensores remotos: ¿Cómo podemos usar las imágenes de satélite en la conservación del jaguar?* One-day workshop (in Spanish). Sponsored by Inter-American Development Bank (IDB). ICE Reventazón Hydroelectric Dam Site, **Siquirres, Costa Rica**.

Petracca, L.S. March 2014. *Una introducción a los análisis de menor costo y ocupación usando datos de jaguares*. Three-day workshop (in Spanish). Panthera Field Office, **San José, Costa Rica**.

Petracca, L.S. 2012-2013 (various). *La realización de análisis ecológicos con ArcMap*. Five-day workshop (in Spanish). **Panthera Field Offices**, Carazo, Nicaragua; Tegucigalpa, Honduras; Belmopan, Belize; San José, Costa Rica.

STUDENT MENTEES

Tyler Bostwick. M.S. Program. 2023-present. Texas A&M - Kingsville.
“*Use of movement ecology and genetics to inform ocelot recovery in South Texas*”
*serve as Advisor

Emily Madsen. Ph.D. Program. 2022-present. Oxford University. Oxford, UK.
“*In the shadow of big cats: how intraguild interactions and anthropogenic pressures influence medium carnivores in East African savannahs*”
*serve as Committee Member

Sandy Slovikosky. M.S. Program. 2020-present. State University of New York College of Environmental Science and Forestry. Syracuse, NY, USA.
“*Ecological correlates of human-carnivore conflict*”
*serve as Co-Advisor

Tam Ta. Undergraduate. 2021-present. University of Washington. Seattle, WA, USA.
Project 1: “*Impacts of housing and road density on carcass visitation by mountain lions in northeast Washington, USA*”
Project 2: “*Assessment of reproduction in wolf packs in Washington State, USA, via camera trap imagery*”
*serve as research advisor

Daisy de Fatima Sanchez Mosqueda. M.S Program. 2021-present. State University of New York College of Environmental Science and Forestry. Syracuse, NY, USA.

"Habitat connectivity for large felids in Peru"

*serve as Committee Member

Caitlyn Bell. Undergraduate. 2021-2022. University of Washington. Seattle, WA, USA.

"Potential drivers of wolf territory size in Washington State"

*serve as Co-Advisor of Senior Capstone

Roberto Salom-Pérez. Ph.D. 2019. University of Idaho. Moscow, ID, USA.

"Using medium and large-sized mammals as indicator species to measure connectivity and large infrastructure impacts in Costa Rica"

*served as mentor and will be senior author on two chapters of his dissertation

PROFESSIONAL SERVICE

Associate Editor, <i>Animal Conservation</i>	2020-present
Equity and Inclusion Committee, School of Aquatic and Fishery Sciences, University of Washington, member	2021-2022
Peer reviewer for <i>Conservation Biology, Conservation Letters, Journal of Applied Ecology, Diversity and Distributions, Biological Conservation, Animal Conservation, Ecosphere, Journal of Wildlife Management, Nature Ecology & Evolution, Conservation Science and Practice, Landscape Ecology, Oryx, PLOS ONE, European Journal of Wildlife Research, Journal for Nature Conservation, Wildlife Research, PeerJ, African Journal of Ecology</i>	2013-present
SUNY-ESF Camp Fire Professor of Wildlife Conservation Faculty Search Committee, member	2018
Society for Conservation Biology, member	2010-present
The Wildlife Society, member	2015-present

ADDITIONAL SKILLS

Languages: English (native), Spanish (proficient), Marshallese (intermediate), Swahili (basic, formerly intermediate).

Computer programs: ArcGIS, R, WinBUGS, ERDAS Imagine, PRESENCE, MARK, Distance, Maxent, Fragstats, Adobe Illustrator.

Other: Have conducted research in or traveled to over 35 countries and gained global perspective on the challenges of international conservation efforts.

REFERENCES

Sarah Converse, Unit Leader, Washington Cooperative Fish and Wildlife Research Unit and Associate Professor, School of Aquatic and Fishery Sciences, University of Washington, Seattle, WA. Postdoctoral Research Advisor. sconver@uw.edu.

Beth Gardner, Associate Professor and Director, Center for Quantitative Sciences, School of Environmental and Forest Sciences, University of Washington, Seattle, WA. Postdoctoral Research Advisor. bg43@uw.edu