School of Aquatic and Fisheries Sciences | 1122 Boat Street | University of Washington, Seattle | 98105 simone.desroches@gmail.com | 208 874 2921 | www.simonedr.com | Citations: 1356 | H-index: 9

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2020-pr	Postdoctoral Fellow	Citizen Science Shoreline Recovery Monitoring Program School of Aquatic & Fisheries Sciences Washington Sea Grant & University of Washington, Seattle
2019-20	Postdoctoral Fellow	Urban Ecology & Evolution Department of Urban Design & Planning University of Washington, Seattle
2016-19	Postdoctoral Fellow	Institute for the Study of Ecological & Evolutionary Climate Impacts University of California, Santa Cruz
2015-16	Adjunct Faculty	General Ecology Department of Biology Saint Mary's College of California, Moraga
2014-15	Visiting Scholar	Department of Environmental Science, Policy, & Management University of California, Berkeley
Education		
2014	PhD	Department of Biological Sciences University of Idaho
2007	BSc, Hon.	Ecology & Environmental Biology University of British Columbia

Publications

*undergraduate authors, **authors contributed equally

- Lambert, MR, KI Brans, **S Des Roches**, CM Donihue, SE Diamond. *In Press*. Adaptive Evolution in Cities: progress and misconceptions. *Trends in Ecology and Evolution*. Accepted 9 November 2020.
- Des Roches, S, KI Brans, MR Lambert, LR Rivkin, AM Savage, CJ Schell, C Correa, L De Meester, SE Diamond, NB Grimm, NC Harris, AP Hendry, L Govaert, MTJ Johnson, J Munshi-South, EP Palkovacs, M Szulkin, MC Urban, BC Verrelli, M Alberti. 2020. Socio-eco-evolutionary dynamics in cities. *Evolutionary Applications*. doi: 10.1111/eva.13065
- Schell, CJ, K Dyson, TL Fuentes, **S Des Roches**, NC Harris, DS Miller, CA Woefle-Erskine, MR Lambert. **2020**. The ecological and evolutionary consequences of systemic racism in urban environments. *Science*. doi: 10.1126/science.aay4497 PRESS
- M Alberti, EP Palkovacs, **S Des Roches**, L De Meester, KI Brans, L Govaert, NB Grimm, NC Harris, AP Hendry, CJ Schell, M Szulkin, J Munshi-South, MC Urban, BC Verrelli. **2020**. The complexity of urban ecoevolutionary dynamics. *BioScience*. doi: 10.1093/biosci/biaa079
- Wasserman, BA, A Paccard, TM Apgar, **S Des Roches**, RDH Barrett, AP Hendry, EP Palkovacs. **2020**. Ecosystem size shapes antipredator trait evolution in estuarine threespine stickleback. *Oikos*. doi.org/10.1111/oik.07482
- Des Roches, S, MA Bell, EP Palkvoacs. 2020. Climate-driven habitat change causes evolution in Threespine Stickleback. *Global Change Biology*. 26: 597-606. doi.org/10.1111/gcb.14892 PRESS
- **Des Roches, S,** DP Post, NE Turley, JK Bailey, AP Hendry, MT Kinnison, JA Schweitzer, EP Palkovacs. 2018. The ecological importance of intraspecific variation. *Nature Ecology & Evolution*. 2:57-64. doi:10.1038/s41559-017-0402-5 PRESS

⁻Publications continued on next page-

Publications (continued)

- Des Roches, S, R Sollmann, A Rothstein, K Calhoun*, EB Rosenblum. 2017. Survival by genotype: patterns at *Mc1r* are not black and white at the White Sands ecotone. *Molecular Ecology*. 26:320-9. doi: 10.1111/mec/13894
- **Des Roches, S,** LJ Harmon, EB Rosenblum. **2015**. Colonization of a novel habitat island leads to trophic niche shifts in three desert lizard species. *Oikos*. 125:343-53. doi: 10.1111/oik.02493
- Refsnider, JM, **S Des Roches**, EB Rosenblum. **2015**. Evidence for ecological release over a fine spatial scale in a lizard from the White Sands formation. *Oikos*. 124:1624-31. doi: 10.1111/oik.02406
- **Des Roches, S,** M Brinkmeyer*, LJ Harmon, EB Rosenblum. 2015. Ecological release and directional change in White Sands lizard trophic ecomorphology. *Evolutionary Ecology*. 29:1-16. doi: 10.1007/s10682-014-9740-9
- Des Roches, S, J Torresdal*, T Morgan*, LJ Harmon, EB Rosenblum. 2014. Beyond black and white: divergent behaviour and performance in three rapidly evolving lizard species at White Sands. *Biological Journal of the Linnaean Society*. 11:169-182. doi: 10.1111/bij.12165
- Des Roches, S, J Shurin, D Schluter, & LJ Harmon. 2013. Ecological and evolutionary effects of stickleback on community structure. *PLoS ONE*. 8: e59644. doi: 10.1371/journal.pone.0059644
- Rosenblum, EB, JW Brown, **S Des Roches**, J Eastman, K Hardwick, T Hether, M Pennell, B Sarver, LJ Harmon. **2012**. Goldilocks meets Santa Rosalia: an ephemeral speciation model explains patterns of diversification across time scales. *Journal of Evolutionary Biology*. 39:255-61. doi: 10.1007/s11692-012-9171-x
- **Des Roches, S,** JM Robertson, LJ Harmon, EB Rosenblum. **2011**. Ecological release of White Sands lizards. *Ecology and Evolution*. 1:571-8. doi: 10.1002/ece3.50
- Yoder, JB, E Clancey, **S Des Roches**, JM Eastman, L Gentry, WKW Godsoe, T Hagey, D Jochimsen, BP Oswald, JM Robertson, BAJ Sarver, JJ Schenk, SF Spear, LJ Harmon. **2010**. Ecological opportunity and the origin of adaptive radiations. *Journal of Evolutionary Biology*. 23:1581-96. doi: 10.1111/j.1420-9101.2010.02029.x
- Harmon, LJ**, B Matthews**, **S Des Roches***, J Chase, J Shurin, D Schluter. **2009**. Evolutionary diversification in stickleback affects ecosystem functioning. *Nature*. 458:1167-70. doi: 10.1038/nature07974

In Review

- **Des Roches, S**, L Pendleton, B Shapiro, EP Palkovacs. Loss of intraspecific variation impacts nature's contributions to people. *In Review at Nature Ecology & Evolution*. First submitted 9 Apr 2020.
- Des Roches, S*, RR Robinson*, MT Kinnison, EP Palkovacs. The ghost of predation past: the legacy of predator threat shapes prey foraging behaviour. *In Review at Oecologia*. First submitted 22 Oct 2020
- Stuble, KL, **Des Roches, S**, A Ambrose, K Brown, H Cooper, T Hilton, B Sinervo, LR Fox. Regional networks of biological field stations to study climate change. *In Review at BioScience*. First submitted 23 Oct 2020

Awards and Funding

Postdoctoral (total: \$150,000)

2016-18	Study for Ecological Effects & Climate Impacts Fellowship UC Santa Cruz	\$115,000
2016-17	Packard Endowment Award co-PIs: E Palkovacs, S Munch UC Santa Cruz	\$15,000
2014-15	Berkeley Connect Fellowship UC Berkeley	\$22,000

Graduate (total: \$92,391)

2010-13	Alexander Graham Bell Postgraduate Scholarship – Doctoral NSERC	\$63,000
2011	Roosevelt Grant American Museum of Natural History	\$1,600
2010	Gaige Grant American Society of Ichthyologists and Herpetologists	\$500
2009	Alexander Graham Bell Postgraduate Scholarship - Masters NSERC	\$17,200
2009-11	Student Grant Program Research Grant University of Idaho	\$8,778
2009,11	Travel Grant University of Idaho	\$1,313

Teaching

2019	Instructor	Introduction to Geographic Information Systems University of Washington
2015-17	Instructor	Upper-division Ecology (lecture & lab) St Mary's College of California
2014-15	Group mentor	Berkeley Connect: Environmental Science University of California, Berkeley
2013	Lecturer Assistant	Global Change Biology discussion group University of California, Berkeley
2011-12	Tutor/instructor	Undergrad data analysis (with R) & lit review class University of Idaho
2009-12	Tutor	Teaching & Academic Assistance: Biology & Statistics University of Idaho
2009	Teaching Assistant	Senior Ichthyology Laboratory University of Idaho
2008	Teaching Assistant	Introductory Biology Laboratory University of Idaho

Mentorship

2017-19	A Repetto, M Rodriguez, Erik Beckman University of California, Santa Cruz
2016-17	J McDonald, K Dodsworth, A Keig St Mary's College of California
2012-15	J Howells, A Warner, S Lopez, M Sadhu, E Harris University of California, Berkeley
2009-14	C Leatherman, K Hoversten, J Torresdal, I Hoyer, M Brinkmeyer, T Morgan University of Idaho
2007	J Sashaw University of British Columbia
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Certifications & Workshops

2019	Co-organizer: Urban Eco-Evo Dynamics Research Network Workshop University of Washington
2019	Data Acquisition in Geographic Information Systems University of California, Santa Cruz
2015	Facilitating Interactive Discussion Workshop University of California, Berkeley
2014	Software Carpentry Boot-camp for Women in STEM University of California, Berkeley
2013	Wilderness Medicine Institute of National Outdoor Leadership School
2011	International Tutor Training Certification University of Idaho

Synergistic Activities & Outreach

*these presentations available open access at www.simonedr.com

Peer Review

Global Change Biology, Science, Nature Communications, Evolution, Proceedings of the Royal Society B, Molecular Ecology, The American Naturalist, Ecosphere, Herpetologica, Journal of Anatomy, Journal of Animal Ecology, PLoS One, Biological Journal of the Linnean Society, Methods in Ecology & Evolution, Freshwater Science

Outreach Activities

2020	Co-organizer: Shorecrab Variation: Art-Science workshop for citizen scientists* WA Sea Grant
2019-pr	Volunteer Burke Museum Herpetology Collections University of Washington
2019-20	Member Anti-Discrimmination and Harassment Working Group University of Washington
2017-18	Mentor WATCH (Watsonville Area Teens Conserving Habitats) Monterey Bay Aquarium
2011-15	Organizer/Leader White Sands Institute 1-Day camp White Sands National Monument
2009-10	Organizer/Leader White Sands Institute Workshop White Sands National Monument
2009-12	Elected Member Graduate & Professional Student Association University of Idaho
	Roles: Biology Dept. Rep.; Senator at Large; Committees including Teaching & Excellence, Curriculum

K-12 Lectures

2020	Science in Art; Art in Science* Eagleview Middle School, Boulder, CO (remote)
2020	Adaptation in Desert Lizards* St Augustine's Elementary School, Vancouver, BC (remote)
2020	Adaptation in Desert Lizards* Skype a Scientist Courtyard Elementary, Sacramento, CA (remote)
2011	7 th Grade Reptile Lecture Garfield Middle School
2009-11	Herpetology Class University of Idaho

Media Engagement

2020	UW Burke Museum: www.burkemuseum.org/news/qa-biological-illustrator
2020	Popular Science: www.popsci.com/story/animals/fish-super-urinators/
2020	Inside Science: insidescience.org/news/bold-fish-maintain-ecosystem-their-waste
2019	UCSC Press Release: news.ucsc.edu/2019/11/stickleback.html?ref=recent
2020	UCSC Press Release: news.ucsc.edu/2017/12/species-variation.html
2019	PBS NOVA: www.pbs.org/wgbh/nova/article/anole-lizard-predator-competition/
2015	White Sands National Monument "Field Note": www.nps.gov/experiences/lizards-whsa.htm
2014	Japanese National Television

Other Contributions

2019	Logo Design Limnology and Oceanography WikiProject
2018	Logo Design Ecological Society of America Early Career Scientists
2014	Educational software concept design Tree of Life Software
2007-14	T-shirt graphic design Nature Conservancy & Plum Clothing Company, Canada
2009	Arctic Sea Ice educational package graphic design Arctic Eider Society, Canada

Dissemination

*these presentations available open access at www.simonedr.com

Invited Presentations

2020	Data Visualization* Graduate Scientific Writing University of California, Santa Cruz
2020	Data Visualization* Graduate Scientific Writing University of California, Santa Cruz (remote)
2019	Cities Ecology and Evolution Class University of Washington
2019	Urban Ecology and Evolution Lab University of Washington \

Invited Presentations (continued)

2019	Natural Capital Lab Stanford University
2019	Data Visualization High-Performance Computing Class University of California, Santa Cruz
2018	Data Visualization American Fisheries Society Subunit University of California, Santa Cruz
2018	Ecology and Evolutionary Biology Department Seminar University of California, Santa Cruz
2017	Wildlife and Conservation Seminar University of California, Berkeley
2016	Environmental Science Series Saint Mary's College of California
2009-14	Park Ranger Presentation White Sands National Monument
2013	Global Change Biology University of California, Berkeley
2012	Introductory Evolutionary Biology Harvard University
2011	Perspectives in Biology University of Idaho

Conference Presentations

2020	American Society of Naturalists meeting Asilomar, CA
2019	University of Washington Biology Postdoc Mini-Symposium Seattle, WA
2018	Ecological Society of America annual meeting New Orleans, LO
2018	American Society of Naturalists meeting Asilomar, CA
2017	Canadian Society of Zoologists annual meeting Invited Symposia Winnipeg, MB, Canada
2017	Canadian Society for Ecology and Evolution annual meeting Victoria, BC, Canada
2014	American Society of Naturalists meeting Asilomar, CA
2013	Ecological Society of America annual meeting Minneapolis, MN
2013	Society for Integrative and Comparative Biology annual meeting San Francisco, CA
2012	Joint European, Canadian, and American Evolution Meeting Ottawa, ON, Canada
2010	Society for the Study of Evolution annual meeting Portland, OR
2010	Society for Integrative and Comparative Biology annual meeting Seattle, WA
2009	Society for the Study of Evolution annual meeting Moscow, ID

References

Jason Toft (postdoctoral research & citizen Science) | Senior Research Scientist | School of Aquatic and Fisheries Sciences | University of Washington, Seattle 98105 | Phone: +1 206 221 5460 | Email: tofty@uw.edu

Dr Eric P Palkovacs (postdoctoral research) | Associate Professor | Department of Ecology & Evolutionary Biology | University of California, Santa Cruz 95060 | Phone: +1 831 502 7387 | Email: epalkova@ucsc.edu

Dr Marina Alberti (postdoctoral research/teaching) | Professor | Urban Design and Planning | University of Washington, Seattle 98105 | Phone: +1 206 616 8667 | Email: malberti@uw.edu

Dr Erica B Rosenblum (PhD teaching/research) | Associate Professor | Department of Environmental Science Policy & Management | Museum of Vertebrate Zoology (Affiliated) | University of California, Berkeley 94720 Phone: +1 510 642 2108 | Email: rosenblum@berkeley.edu

Dr Luke J Harmon (PhD research) | Associate Professor | Department of Biological Sciences | University of Idaho, Moscow 83844 | Phone: +1 208 885 0346 | Email: lukeh@uidaho.edu

Dr Michael P Marchetti (adjunct teaching) | Professor, Endowed Chair | Department of Biological Sciences | St Mary's College of California, Moraga, 94575 | Phone: +1 530 966 0647 | Email: mpm9@stmarys-ca.edu