

# Skye M. Greenler

## Curriculum Vitae

August 2020

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### EDUCATION

**PhD Candidate, Oregon State University,** Dept. Forest Engineering, Resources, & Management

*Dissertation:* Dynamics of fire as a restorative process in dry and mixed conifer forests of the Pacific Northwest

*Advisor:* John Bailey

*Current GPA:* 4.0

*GRE (2014):* Analytical Writing 5.0 (93<sup>rd</sup> percentile), Verbal Reasoning 163 (93<sup>rd</sup>), Quantitative Reasoning 156 (62<sup>nd</sup>)

**M.S., Purdue University,** Dept. Forestry and Natural Resources (May 2018)

*Dissertation:* The effect of prescribed fire and timber harvests on spatial patterns of woody seedling regeneration and granivore-acorn interactions

*Advisors:* Mike Saunders and Robert Swihart

*GPA:* 4.0

**B.A., Colorado College,** Distinction in Biology: Organisms Ecology and Evolution (May 2014)

*Thesis:* Avian community composition in agroforestry systems in Northeastern Costa Rica

*Advisor:* Jim Ebersole

*GPA:* 3.75, Cum Laude

### RESEARCH POSITIONS

2018-pres. **Graduate Research Fellow:** Dept. Forest Engineering, Resources & Management Oregon State University, Corvallis, OR

2018 **Field Technician:** Oregon State University, Dept. Forest Ecosystems and Society Corvallis, OR- Dr. Meg Krawchuk

2018 **Postgraduate Researcher:** Dept. of Forestry and Natural Resources, Purdue University, West Lafayette, IN

2016-18 **Graduate Research Assistant:** Dept. of Forestry and Natural Resources, Purdue University, West Lafayette, IN

2015 **Lab Manager and Field Crew Leader:** Dept. of Forestry and Natural Resources, Purdue University, West Lafayette, IN – Dr. Mike Saunders

2014-15 **Field Crew Leader and Research Technician:** USDA ARS Rangeland Resources Research Unit, Fort Collins, CO – Dr. Lauren Porensky

2013 **NSF REU:** Michigan State University, Kellogg Biological Station – Dr. Jen Lau  
Project: The influence of land use history on soil nitrogen changes after prairie restoration

2012 **Field Technician:** University of Wisconsin-Madison, College of Agricultural and Life Sciences – Dr. Chris Kucharik

2007-12     **Lab Technician:** University Wisconsin-Madison, School of Veterinary Medicine Dept. Pathology & Necropsy – Dr. Dick Dubielzig and necropsy services

## PUBLICATIONS

1. *Greenler S, Saunders M, Swihart R. (2020) Prescribed fire promotes acorns survival and seedling emergence from simulated caches. Forest Ecology and Management. <https://doi.org/10.1016/j.foreco.2020.118063>*
2. *Greenler S, Estrada L, Kellner K, Saunders M, Swihart R. (2019) Prescribed fire and partial overstory removal alter an acorn-rodent conditional mutualism. Ecological Applications. <https://doi.org/10.1002/eap.1958>.*
3. *Plough L, Jacobs E, Frank G, Greenler S, Smith M, Dukes J. (2019) Community response to extreme drought (CRED): A framework for drought-induced shifts in plant-plant interactions. New Phytologist. doi:10.1111/nph.15595*
4. *Greenler S, Saunders M. (2019) Short-term spatial regeneration patterns following expanding group shelterwood harvests and prescribed fire in the Central Hardwood Region. Forest Ecology and Management. 432, 1053-1063.*
5. *Greenler S, Ebersole J. (2015) Bird communities in tropical agroforestry ecosystems: An underappreciated conservation resource. Agroforestry Systems 89(4), 691-704.*

## Manuscripts in Preparation

1. *Johnston J, Greenler S, Miller B, Reilly M, Dunn C, Lindsay A. Diameter limits impede restoration of historical conditions in dry mixed conifer forests of eastern Oregon, USA. Ecosphere. (Under review)*
2. *Johnston J, Greenler S, Reilly M, Webb M, Merschel A. Conservation of dry forest old-growth in eastern Oregon. Journal of Forestry. (Under review)*
3. *Rathfon R, Greenler S, Jenkins M. Effects of goat grazing on non-native invasive shrubs and native plant species in a mixed-hardwood forest. Restoration Ecology. (Under review).*
4. *Greenler S, Dunn C, Reilly M, Johnston J, Merschel A, Hagmann K, Bailey J. Too hot, too cold, or just right: Can fire restore mixed-conifer forests? Ecological Applications. (In prep).*

## GRANT FUNDED ACTIVITIES

1. PI: Integrating cultural fire regimes into wildfire and climate adaptation strategies. The Department of the Interior Northwest Climate Adaptation Science Center, 2020, \$37,450
2. Key Personnel: NCRP strategic fire planning and WKRP State-and-Transition modeling. North Coast Resource Partnership Concept Proposal for Demonstration Projects and Processes, 2020. \$200,000
3. PI: 10<sup>th</sup> Year Anniversary Traditional Ecological Knowledge Conference. Oregon State University SOURCE Funding, 2020. \$6,750
4. Key Personnel: Long-term plot remeasurement to support and calibrate place-based reburn dynamics modeling in the Western Klamath Mountains. US Forest Service, Pacific Southwest Research Station, 2020. \$18,400
5. Co-PI: Research Equipment Grant: Biomark HPR Plus Reader. Purdue University, 2016. \$2,595

## PRESENTATIONS

### Invited Presentations

1. *Greenler S, Johnston J. The applicability of HRV as a guide for dry forest restoration and management. Ochoco Forest Restoration Council Meeting. Virtual. July 2020.*

2. *Greenler S, Dunn C, Bailey J.* Too hot, too cold, or just right: Can wildfire restore Eastern Oregon forests? Central Oregon Fire Science Symposium. Bend, OR. March 2020. *Postponed due to COVID-19*
3. *Greenler S, Dunn C, Bailey J.* Too hot, too cold, or just right: Can wildfire restore mixed-conifer forests? Southern Blues Science and Monitoring Workshop. John Day, OR. October 2019.

### Conference Presentations

1. *Greenler S, Dunn C, Bailey J.* Too hot, too cold, or just right: Can managing wildfires for resource benefits restore historical fire conditions? Western Forestry Graduate Research Symposium. Corvallis, OR. May 2020.
2. *Saunders M, Greenler S.* Silviculture “in the middle of the field’ with prescribed fire to regenerate diverse, irregular-aged oak forests in the central USA. XI International Workshop on Uneven-aged Silviculture. Valdivia, Chile. November 2018.
3. *Greenler S, Saunders M, Swihart R.* Acorn emergence following prescribed fire: The influence of small mammal caching and season. Society of American Foresters National Convention. Portland, OR. October 2018.
4. *Greenler S, Estrada L, Saunders M, Swihart R.* The effect of prescribed fire and group shelterwoods on acorn-rodent interactions: Implications for oak regeneration. Central Hardwood Forest Conference. Bloomington, IN. May 2018.
5. *Greenler S, Saunders M.* Spatial variation in woody regeneration following femelschlag harvests in the Central Hardwood Region. Society of American Foresters National Convention. Albuquerque, NM. November 2017.
6. *Swihart R, Greenler S, Kellner K, Lichti N, Nelson D, and Sundaram M.* Do mighty oaks from little rodents grow? Behavioral perspectives on forest management and regeneration. Indiana Forestry and Woodland Owners Association annual meeting. West Lafayette, IN. November 2017.
7. *Greenler S, Saunders M.* Spatial variation in regeneration in small shelterwood gaps and surrounding forest matrix in the Central Hardwood Region. North American Forest Ecosystem Workshop. Edmonton, Alberta. June 2017.
8. *Greenler S.* Bird Communities in a Costa Rican agroforest ecosystem—An underappreciated conservation resource. Colorado College Biology Symposium. Colorado Springs, CO. April 2014.
9. *Greenler S.* Does previous land use create a nitrogen legacy in restored prairies? Michigan State Univ. Kellogg Biological Station undergraduate symposium. Gull Lake, MI. Aug. 2013.
10. *Greenler S.* A comparison of bird populations in live fences, riparian forests, shade-grown cacao, and preserved tropical rainforest in northeastern Costa Rica. ACM Costa Rica Symposium. San Jose, Costa Rica. May 2013.

### Posters

1. *Greenler S, Dunn C, Bailey J.* Too hot, too cold, or just right: Can managing wildfire for resource benefits restore historical forest conditions? 8<sup>th</sup> International Fire Ecology and Management Congress. Tucson, AZ. November 2019.
2. *Estrada L, Greenler S, Saunders M, Swihart R.* Effects of extended group shelterwood and fire on oak seed dispersal and survival. XI International Workshop on Uneven-aged Silviculture. Valdivia, Chile. November 2018.
3. *Estrada L, Greenler S, Saunders M, Swihart R.* The effect of forest management practices on components of acorn dispersal and survival. Joint meeting of The Indiana American Fisheries Society & the Indiana chapter of The Wildlife Society. Lafayette, IN. February 2018.
4. *Greenler S, Saunders M.* Fine scale spatial variation in woody regeneration following ecologically based timber harvest. Ecological Society of America Annual Meeting. Portland, OR. August 2017.

5. Saunders M, *Greenler S*. Application of expanding group shelterwood systems and prescribed fire to regenerate oak-dominated hardwood ecosystems. National Silvicultural Workshop. Flagstaff, AZ. July 2017.
6. *Greenler S*. The great clearcut controversy: An inquiry-based STEM unit. Purdue Forestry & Natural Resources Symposium. West Lafayette, IN. April 2017.
7. Estrada L, *Greenler S*, Swihart R, Saunders M. The influence of prescribed burning and timber harvest on acorn pilferage. Purdue Forestry & Natural Resources Symposium. West Lafayette, IN. April 2017.
8. *Greenler S*, Saunders M. Promoting oak regeneration through prescribed fire and silviculture: Early results. Central Hardwood Oak Ecology & Wildlife Management Conference. Nashville, IN. March 2017.
9. *Greenler S*, Saunders M. Promoting oak regeneration through prescribed fire and silviculture: Early results. Purdue Forestry & Natural Resources Symposium. West Lafayette, IN. April 2016.
10. *Greenler S*, Saunders M. Promoting oak regeneration through prescribed fire and silviculture: Early results. Central Hardwood Forest Conference. Columbia, MO. March 2016.
11. *Greenler S*. Does previous land use create a nitrogen legacy in restored prairies? Colorado College Department of Biology Symposium. Colorado Springs, CO. April 2014.
12. Dubielzig R, Scott E, De Lombaert M, Earnst S, *Greenler S*. Malignant cancer after trauma or presumed trauma in cats. The Association for Research in Vision and Ophthalmology Annual Conference. Seattle, WA. May 2013.
13. Dubielzig R, Scott E De Lombaert M, Earnst S, *Greenler S*, Esson D. Feline ocular post-traumatic sarcoma (FOPTS), a review of 325 cases. The American College of Veterinary Ophthalmologists. Portland, OR. Oct. 2012.
14. Dubielzig R, De Lombaert M, *Greenler S*. Early-life trauma, anterior chamber collapse syndrome, thoughts about pathogenesis. The European College of Veterinary Ophthalmologists. Trieste, Italy. May 2012.
15. Dubielzig R, Southwick J, Scott E, De Lombaert M, Earnest S, Strong T, *Greenler S*. Feline ocular post-traumatic sarcoma, a summary of 325 cases in the COPLOW database. European College of Veterinary Ophthalmologists. Trieste, Italy. May 2012.

## EXTENSION AND OUTREACH

### Peer-Reviewed Publications

1. Connell L, Porensky L, *Greenler S*, Estep K, Newton S, Pellatz D, Scasta, J. D. (2018) Common herbaceous plants of the thunder basin. University of Wyoming Extension Publication B-1288.3. University of Wyoming
2. *Greenler S*, Saunders M. (2017) The Great Clearcut Controversy. Nature of Teaching. Purdue University Extension Publication FNR-549-W. Purdue University.
3. *Greenler S*. (2014) Is Chocolate for the Birds? Data Nugget. Michigan State University.

### Presentations

1. *Greenler S*. My path to research, wildfires in Oregon, and current PhD Projects. PEO Oregon Chapter A Meeting. Virtual. July 2020.
2. *Greenler S*, Saunders M. The great clearcut controversy: An inquiry based STEM unit. Environmental Education Association of Indiana Conference. Morgantown, IN. Oct. 2017.
3. *Greenler S*. The great clearcut controversy middle school lesson plans. Indiana Natural Resources Teacher Institute. Martinsville, IN. June 2017.

4. Beheler B, *Greenler S*, Roche, D. Forest management at Martell: balancing resource management, research, and teaching. City of West Lafayette Wednesdays in the Wild. West Lafayette, IN. May 2017.
5. Wang H, Knobloch N, *Greenler S*, Johnson A. Integrated STEM education through agriculture, food, and natural resources: Graduate students' practical knowledge of integrating STEM as non-formal STEM educators. Indiana STEM Education Conference. West Lafayette, IN. Jan. 2017. The Forestry Source (National SAF), Vol. 23, No. 12. December, 2019. The Future of SAF: Exploring the connections of wildfire and forest management.

## Media

1. Bend Bulletin. September 2019. Guest Column: Light it so you don't have to fight it.
2. The Forestry Source (National SAF), Vol. 24, No. 5. May 2019. Meet the future of forestry: The SAF Diversity scholars.
3. Hardwood Tree Improvement & Regeneration Center Newsletter, Vol. 11, Issue 1. June 2018. German Femelschlag Harvests Hold Promise for Oak Regeneration in Indiana. <https://htirc.org/blog/2018/06/08/june-2018/>
4. Hardwood Tree Improvement & Regeneration Center Newsletter, Vol. 11, Issue 1. June 2018. New Lesson Plans for Middle School Students about Forest Management. <https://htirc.org/blog/2018/06/08/june-2018/>
5. Out on the Land, Season 6, Episode 74. July 2015. <https://vimeo.com/135803878>

## Other Outreach

1. Franklin Elementary School Science Night Exhibitor. January 2020, Corvallis, OR.
2. NPR Student Podcast Competition Interview. January 2020. Whitefish Bay, WI.
3. OSU Discovery Days Exhibit. April 2019. Corvallis, OR.
4. Fire Ecology and Management Burn Table Demonstrations. Multiple (2019). Corvallis, OR.
5. Poster Judge, Lafayette Regional Science and Engineering Fair (2017). Lafayette, IN.

## GRANTS AND AWARDS

### Grants and Scholarships

|      |                                                                                      |
|------|--------------------------------------------------------------------------------------|
| 2020 | Oregon Lottery Scholarship, \$1,500                                                  |
| 2020 | Hal Salwasser Fellowship, OSU College of Forestry \$2,500                            |
| 2020 | Future Forest Fellowship, OSU College of Forestry \$500                              |
| 2020 | P.F. & Nellie Buck Yerex Graduate Scholarship \$12,000                               |
| 2020 | Konnie Family Forest Engineering Graduate Fellowship \$21,210                        |
| 2019 | Lee Harris Conference Assistance Travel Grant \$256                                  |
| 2019 | Southwest Fire Science Consortium- Travel grant \$100                                |
| 2019 | Joint Fire Science Program- Travel, Research, and Educational Experience grant \$475 |
| 2019 | OSU- J. R. Dilworth Memorial Fund Travel Award \$700                                 |
| 2019 | OSU- College of Forestry Dean's Distinguished Graduate Fellowship \$31,780           |
| 2018 | Society of American Foresters- Diversity Scholar \$710                               |
| 2018 | Oregon State University- Provost's Distinguished Graduate Fellowship \$30,000        |
| 2018 | Oregon State University- Alfred W. Moltke Memorial Scholarship \$6,000               |
| 2017 | Purdue- Graduate Student Travel Grant \$250                                          |
| 2017 | Ecological Society of America Applied Ecology- Section Travel Award \$400            |
| 2017 | Ecological Society of America Student Section- Travel Award \$300 (declined)         |
| 2015 | Purdue -Graduate Research Assistantship \$18,960/year                                |

## Honors and Awards

- 2017 First Place, Forestry and Natural Resources Poster Symposium, Purdue University
- 2016 NSF Graduate Research Fellowship Program, Honorable Mention
- 2016 Golden Key Honor Society, Purdue University
- 2014 Phi Beta Kappa Society, Colorado College
- 2014 Richard G. and Reba Beidlemand Award, Colorado College

## TEACHING

### Teaching Experience

- 2020 Instructor *Wildland Fire Science and Management* (FOR 436/546), Oregon State University
- 2020 Remote Guest Lecturer *Fire Ecology*, Purdue University
- 2017 Teaching Assistant and Guest Lecturer *Forest Ecology*, Purdue University
- 2017 Laboratory Lecturer and Instructor Laboratory *Ecology and Systematics of Birds*, Purdue University
- 2011-14 Catamount Institute Outdoor Education Intern Colorado Springs, CO

### Undergraduate Research Mentorship

- 2016-18 Laura Estrada, Influence of timber harvest and prescribed fire on acorn pilferage, Purdue University

## OTHER

### Committee Membership, Leadership, and Service

- 2019- Traditional Ecological Knowledge Initiative Club- Founding Member, Treasurer: OSU
- 2019- OSU Traditional Ecological Knowledge Conference Steering Committee Member: OSU
- 2019- Graduate Student Advisory Council: OSU Graduate School
- 2019 Tenure Student Review Committee: OSU College of Forestry
- 2019 Diversity scholar selection committee: Society of American Foresters
- 2018- Western Forestry Graduate Research Symposium organizing committee, Chair: OSU
- 2018- College of Forestry Discovery Days organizing committee, Co-Chair: OSU College of Forestry
- 2018- Student Association for Fire Ecology- Member, President: OSU College of Forestry
- 2016-18 New graduate student mentor: Purdue University

### Committee and Club Funding Received

- 2020 Student Association for Fire Ecology National Student Chapter Grant \$625
- 2020 Student Association for Fire Ecology SOURCE Equipment Grant \$100
- 2020 Oregon State Univ. Graduate School Co-sponsorship grant (Western Forestry Graduate Research Symposium) \$1000
- 2019 Oregon State Univ. Graduate School Co-sponsorship grant (Western Forestry Graduate Research Symposium) \$1000
- 2019 Oregon State Univ. College of Forestry Discovery Days grant \$300

### Peer Reviewer

Journal of Ecology, Ecological Monographs, Forest Science, Northwest Science

## Published Datasets

1. *Greenler S, Saunders M, Swihart R.* 2018. Northern red oak acorn dispersal and survival in a Southern Indiana forest managed with prescribed fire and group shelterwood harvests. Knowledge Network for Biocomplexity. doi:10.5063/F1MP51HZ.
2. *Greenler S, Estrada L, Saunders M, Swihart R.* 2018. Northern red oak acorn cache pilferage in a Southern Indiana forest managed with prescribed fire and group shelterwood harvests. Knowledge Network for Biocomplexity. doi:10.5063/F1RF5S8R.
3. *Greenler S.* 2017. Bird community data from agroforestry systems in northeastern Costa Rica. Knowledge Network for Biocomplexity. doi:10.5063/F1D798KX.

## Certifications

- 2013- Wilderness First Responder, Wilderness Medicine Institute of NOLS
- 2015- Chainsaw Safety and Maintenance, Basic, Purdue University
- 2012- Worker Protection Standard (WPS) Pesticide Training, Purdue University
- 2015-2018 Wildland Firefighter Type II (Red Card Certification), Indiana DNR

## Professional Memberships

- 2019- Association for Fire Ecology
- 2019- Northwest Scientific Association
- 2017- American Association for the Advancement of Science
- 2017- Society of American Foresters
- 2017-2018 Ecological Society of America

## Additional Skills

- Program R, ArcGIS, BehavePlus Fire Modeling System, Adobe Creative Suite, Microsoft suite, social media
- All terrain driving, UTV operation, trailer hauling and operation
- Spanish: professional working proficiency
- Back-country first aid and rescue, CPR, technical rock-climbing rescue