

**GARETH R. HOPKINS, PhD**  
*Curriculum Vitae (CV)*

Associate Professor  
Department of Biology  
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## **EDUCATION**

### **Doctor of Philosophy (PhD) (Ecology), 2015**

Ecology Center and Department of Biology, Utah State University, USA

Major Advisors: Prof. Edmund D. Brodie, Jr., Assoc. Prof. Susannah S. French

*Dissertation title: Salt and the rough-skinned newt: Evolutionary investigations of local adaptation to an anthropogenic and natural stressor*

### **Bachelor of Science (BSc.) (Biology, Natural Resources Management: Wildlife & Fisheries), 2010**

Ecosystem Science and Management, University of Northern British Columbia, Canada

## **POSITIONS HELD**

2022-	Associate Professor of Biology (with tenure)	Western Oregon University, OR, USA
2018-22	Assistant Professor of Biology (tenure-track)	Western Oregon University, OR, USA
2015-18	Research Fellow	Behaviour & Evolution Group, University of Melbourne, Melbourne, VIC, Australia
2015	Sessional Lecturer	Utah State University, Logan, UT, USA
2010-15	Graduate Researcher (RA) / Teaching Assistant (TA)	Utah State University, Logan, UT, USA
2007, 2009-10	Federal Entomology Research Assistant	Natural Resources Canada – Canadian Forest Service/ University of Northern British Columbia, Prince George, Canada
2008	Amphibian Ecology Research Assistant	Northern Amphibian Monitoring Outpost Society BC/ University of Northern British Columbia, Prince George, Canada
2006	Marine Environmental Education Public Interpreter	Johnstone Strait Killer Whale Interpretive Centre, Telegraph Cove, BC, Canada
2004	Volunteer Research Field Assistant	University of British Columbia, Vancouver, Canada (Dr. Dolph Schluter's lab)

## **PROFESSIONAL INTERESTS**

I am a zoologist and ecologist interested in how organisms are affected by, and respond to environmental change. This research spans layers of biological organization, from the behavioral and physiological responses of individuals to the evolutionary responses of populations and the ecological responses of communities. My work integrates lab and field studies, and is mainly focused on insects, other invertebrates, amphibians, and reptiles. I am passionate about the integration of teaching and research and am a proponent of multimodal active learning and the benefits of outside of the classroom teaching. Mentoring undergraduate research students, and introducing them to the scientific process, is the most rewarding part of my career.

**TEACHING EXPERIENCE**

\*Note: WOU BI 406 Independent Study Courses listed under “Mentored Students”

**Summary**

I teach the following courses at Western Oregon University (links to Catalog Descriptions):

- **BI 101 General Biology: The Diversity of Life** (summer and every other fall)
- **BI 102L General Biology: The Foundations of Life** (lab; usually at least once a year)
- **FYS 107 Dinosaurs!** (writing-focussed first year seminar; every other fall)\*
- **FYS 107 Communicating Animals** (writing-focussed first year seminar; every other spring)\*
- **BI 213 Principles of Biology: Structure and Function** (every spring)
- **BI 317 Vertebrate Natural History** (every other fall)
- **BI 343 Analysis of Biological Data** (every Fall & Winter)\*
- **BI 360 Animal Behavior** (every other Winter)
- **BI 406 Individual Study** (research experience; every term, by arrangement)
- **BI 474 Biology of Insects** (every other spring)

\*while I have substantially revised and developed all courses I teach, the courses listed with an asterisk are those that I developed from scratch.

**See table below for a term-by-term analysis of my teaching experience:**

<b>Semester</b>	<b>Role</b>	<b>Course</b>	<b>University</b>	<b>Average Teaching Evaluation Score (out of 5)</b>
Fall 2022	Instructor	BI 343: Analysis of Biological Data <i>and lab</i> (BI 343L)	Western Oregon University	
Fall 2022	Co-Instructor	FYS 107: Dinosaurs!	Western Oregon University	
Fall 2022	Instructor	BI 101: General Biology (online lecture and lab)	Western Oregon University	
Summer 2022	Instructor	BI 101: General Biology (online lecture and lab)	Western Oregon University	<i>Not collected in summer sessions</i>
Spring 2022	Co-Instructor	BI 213: Principles of Biology <i>and lab</i> (BI 213L)	Western Oregon University	
Spring 2022	Co-Instructor	FYS 107: Communicating Animals ( <i>new course development</i> )	Western Oregon University	
Winter 2022	Instructor	BI 102L: General Biology Laboratory (2 sections)	Western Oregon University	4.4 (3 responses, two sections)
Winter 2022	Instructor	BI 343: Analysis of Biological Data <i>and lab</i> (BI 343L)	Western Oregon University	4.5 (4 responses)
Fall 2021	Instructor	BI 317: Vertebrate Natural History <i>and lab</i> (BI 317L)	Western Oregon University	4.8 (5 responses)

Fall 2021	Instructor	BI 343: Analysis of Biological Data <i>and lab (BI 343L)</i>	Western Oregon University	3.4 (3 responses)
Summer 2021	Instructor	BI 101: General Biology (online lecture and lab)	Western Oregon University	<i>Not collected in summer sessions</i>
Spring 2021	Co-Instructor	BI 213: Principles of Biology <i>and lab (BI 213L)</i>	Western Oregon University	4.2 (45 responses)
Spring 2021	Instructor	BI 474: Biology of Insects <i>and lab (BI 474L)</i>	Western Oregon University	4.7 (7 responses)
Winter 2021	Instructor	BI 306: Animal Behavior <i>and lab (BI 360L)</i>	Western Oregon University	4.6 (6 responses)
Winter 2021	Instructor	BI 343: Analysis of Biological Data <i>and lab (BI 343L)</i>	Western Oregon University	4.2 (6 responses)
Fall 2020	Co-Instructor	FYS 107: Dinosaurs! ( <i>new course development</i> )	Western Oregon University	4.4 (7 responses)
Fall 2020	Instructor	BI 343: Analysis of Biological Data <i>and lab (BI 343L)</i>	Western Oregon University	5.0 (2 responses)
Summer 2020	Instructor	BI 101: General Biology <i>and lab (BI 101L)</i>	Western Oregon University	<i>Not recorded in Summer Session</i>
Spring 2020	Co-Instructor	BI 213: Principles of Biology <i>and lab (BI 213L)</i>	Western Oregon University	4.2 (7 responses)
Spring 2020	Laboratory Instructor	BI 101L: General Biology Laboratory (2 sections)	Western Oregon University	3.2-4.1 (depending on lab section; total 7 responses)
Winter 2020	Instructor	BI 343: Analysis of Biological Data ( <i>new course development</i> ) <i>and lab (BI 343L)</i>	Western Oregon University	4.1 (14 responses)
Winter 2020	Laboratory Instructor	BI 102L: General Biology Laboratory (3 sections)	Western Oregon University	4.4-4.8 (depending on lab section)
Fall 2019	Instructor	BI 317: Vertebrate Natural History <i>and lab (BI 317L)</i>	Western Oregon University	4.8 (20 responses)
Fall 2019	Instructor	BI 102L: General Biology Laboratory (3 sections)	Western Oregon University	4.2-4.4 (depending on lab section)
Spring 2019	Co-Instructor	BI 213: Principles of Biology <i>and lab (BI 213L)</i>	Western Oregon University	4.1-4.7 (depending on lecture/lab section)
Spring 2019	Instructor	BI 474: Biology of Insects <i>and lab (BI 474L)</i>	Western Oregon University	4.9 (13 responses)

Winter 2019	Instructor	BI 306: Animal Behavior <i>and lab (BI 360L)</i>	Western Oregon University	4.8 (16 responses)
Winter 2019	Laboratory Instructor	BI 102L: General Biology Laboratory (2 sections)	Western Oregon University	4.95 (6 responses)
Fall 2018	Laboratory Instructor	BI 101L: General Biology Laboratory	Western Oregon University	3.9 (6 responses)
Fall 2018	Instructor	BI 317: Vertebrate Natural History <i>and lab (BI 317L)</i>	Western Oregon University	4.5 (3 responses)
Sem. 1. 2018	Project Supervisor	ZOOL3007: Experimental Animal Behaviour	Univ. of Melbourne	N/A
Sept 2017	Guest Lecturer	BIOL 2046: Life on Earth-B	Univ. of South Australia	N/A
Sem.1 2016	Project Supervisor	ZOOL3007: Experimental Animal Behaviour	Univ. of Melbourne	N/A
Summer 2015	Instructor	BIOL1010: Biology & the Citizen	Utah State Univ.	4.4 (20 responses)
Spring 2015	Head Laboratory Teaching Assistant and Guest Lecturer	BIOL 2420: Human Physiology	Utah State Univ.	4.9 (38 responses)
Fall 2014	Laboratory Teaching Assistant and Guest Lecturer	BIOL 2420: Human Physiology	Utah State Univ.	N/A
Fall 2013	Laboratory Teaching Assistant	BIOL 1610: Intro. Biology	Utah State Univ.	N/A
Fall 2011	Laboratory Teaching Assistant	BIOL 1610: Intro. Biology	Utah State Univ.	4.9 (15 responses)
2009-2010	Peer-Led Team Learning Leader	BIOL 101/2: Intro. Biology	Univ. Northern British Columbia	N/A

### **MENTORED STUDENTS: RESEARCH / INDEPENDENT STUDIES / HONORS**

#### **Western Oregon University**

*Total number of students taught: 25 BI 406/408 + 3 Honors Students*

*BI 406/408 Independent Undergraduate Research Students*

*\*Delivered Academic Excellence Showcase Presentation/Poster*

Fall 2022

- Jessica Chong (1 credit): Capstone Ecological Research & Scientific Communication (Invertebrate diversity in oak ecosystems)

- Madison Smith (3 credits): Invasive Species Research II (data analysis and paper writing of the occurrence and distribution of invasive snapping turtles in Oregon) *\*Co-supervised by Dr. David Szpakowski (Earth & Environmental Science)*

#### Summer 2022

- Gavin Moody (4 credits): Herpetological Conservation Research (field research on protecting and conserving Western Pond Turtle nesting habitat)

#### Spring 2022

- Oak Long-term Ecological Research (LTER) Team [co-supervised with Dr. Ava Howard; shared instructor of record]
  - Connor Park (2 credits) *\*predominantly mentored by me*
  - Jessica Chong (2 credits) *\*predominantly mentored by me*
  - Matthew Manus (2 credits) *\*predominantly mentored by me*
  - Madison Trussell (2 credits) *\*predominantly mentored by me*
  - Anastasia Popchock (2 credits) *\*equally mentored by me*
- Madison Smith (2 credits): Invasive Species Research (data analysis and paper writing of the occurrence and distribution of invasive snapping turtles in Oregon)
- Toben Roark (4 credits): Herpetological Conservation Research Experience (data collection, field work, data analysis, report writing on native turtle basking patterns)

#### Winter 2022

- Oak Long-term Ecological Research (LTER) Team [co-supervised with Dr. Ava Howard; shared instructor of record]
  - Kayley Arpaia (2 credits) *\*predominantly mentored by me*
  - Yasmin Schulberg (2 credits)
  - Connor Park (2 credits) *\*predominantly mentored by me*
  - Jessica Chong (2 credits) *\*predominantly mentored by me*
  - Matthew Manus (2 credits) *\*predominantly mentored by me*
  - Madison Trussell (4 credits) *\*predominantly mentored by me*
  - Anastasia Popchock (2 credits)
  - Calvin Cade (2 credits)
  - Marco Galindo (2 credits)
- Dennis Long (1 credit): Conservation through Public Engagement (public interface and beta testing coordination of the Oregon Turtles App)

#### Fall 2021

- Oak Long-term Ecological Research (LTER) Team [co-supervised with Dr. Ava Howard; shared instructor of record for Fall 2021]
  - Kayley Arpaia (2 credits) *\*predominantly mentored by me*
  - Yasmin Schulberg (2 credits)
  - Connor Park (2 credits) *\*predominantly mentored by me*
  - Jessica Chong (2 credits) *\*predominantly mentored by me*
  - Matthew Manus (2 credits) *\*predominantly mentored by me*
  - Madison Trussell (2 credits) *\*predominantly mentored by me*
  - Anastasia Popchock (2 credits)
  - Calvin Cade (2 credits)
  - Marco Galindo (2 credits)
- Stephani Symanowicz (1 credit): Herpetological Conservation Research III (data analysis, report writing, and presentation on turtle nesting data collected in Spring/Summer)

#### Summer 2021

- Stephani Symanowicz (2 credits): Herpetological Conservation Research II (field research on protecting and conserving Western Pond Turtle nesting habitat)

## Spring 2021

- Oak Long-term Ecological Research (LTER) Team [co-supervised with Dr. Ava Howard and Dr. Jeff Snyder; Dr. Snyder instructor of record for Spring 2021]
  - Samantha Sackett (2 credits)
  - Oswaldo Moreno (1 credits) *\*I was instructor of record*
  - Shayla Solomon (2 credits) *\*I was instructor of record*
  - Connor Park (2 credits)
  - Kayley Arpaia (2 credits)
  - Yasmin Schulberg (2 credits)
- Stephani Symanowicz (2 credits): Herpetological Conservation Research I (field research on protecting and conserving Western Pond Turtle nesting habitat)
- Nick Carter (2 credits): Biological Research Experience (examining tidepool sculpin camouflage and predator avoidance behavior)

## Winter 2021

- Oak Long-term Ecological Research (LTER) Team [co-supervised with Dr. Ava Howard and Dr. Jeff Snyder; I was instructor of record for Winter 2021]
  - Henry Roberts (2 credits)
  - Samantha Sackett (2 credits)
  - Oswaldo Moreno (1 credits) *\*I was instructor of record*
  - Shayla Solomon (2 credits) *\*I was instructor of record*
  - Connor Park (2 credits)
  - Kayley Arpaia (2 credits)
  - Yasmin Schulberg (2 credits)
- Emi Ricci & Summer Broome (2 credits): Herpetological Research Experience III (analyzing camera trap images to assess habitat restoration efforts for the Western Pond Turtle, analyzing data, and writing formal report)
  - *Winner of Kenneth Walker Research Awards 2021*
- Svetlana Goloviznina (2 credits): Individual Research Experience: Biological App Development III [co-supervised as a mixed BI 406 / CS 406 (2 credits BI, 1 credit CS) with Dr. Lucas Cordova]
- Madison Smith (1 credit): Herpetological Conservation Research I (literature review and conservation plan for Western Pond Turtle nesting habitat)

## Fall 2020

- Oak Long-term Ecological Research (LTER) Team [co-supervised with Dr. Ava Howard and Dr. Jeff Snyder; Dr. Howard instructor of record for Fall 2020]
  - Henry Roberts (2 credits)
  - Samantha Sackett (2 credits)
  - Oswaldo Moreno (1 credits) *\*I was instructor of record*
  - Emilie Sass (2 credits)
  - Connor Park (2 credits)
  - Kayley Arpaia (2 credits)
  - Yasmin Schulberg (2 credits)
- Emi Ricci & Summer Broome (2 credits): Herpetological Research Experience II (analyzing camera trap images to assess habitat restoration efforts for the Western Pond Turtle)
- Svetlana Goloviznina (1 credit): Individual Research Experience: Biological App Development II [co-supervised as a mixed BI 406 / CS 406 (1 credit each) with Dr. Lucas Cordova]

## Summer 2020:

- Emi Ricci & Summer Broome (2 credits): Herpetological Research Experience (analyzing camera trap images to assess habitat restoration efforts for the Western Pond Turtle)
- Svetlana Goloviznina (1 credit): Individual Research Experience: Biological App Development [co-supervised as a mixed BI 406 / CS 406 (1 credit each) with Dr. Lucas Cordova]

## Spring 2020:

- Oak Long-term Ecological Research (LTER) Team [co-supervised with Dr. Ava Howard and Dr. Jeff Snyder]
  - Shayla Solomon (2 credits)
  - Henry Roberts (2 credits)
  - Samantha Sackett (2 credits)
  - Oswaldo Moreno (2 credits)
- Svetlana Goloviznina (1 credit): Individual Research Experience: Biological App Research & Design

## Winter 2020:

- Oak Long-term Ecological Research (LTER) Team [co-supervised with Dr. Ava Howard and Dr. Jeff Snyder]
  - Shayla Solomon (2 credits)
  - Henry Roberts (2 credits)
  - Samantha Sackett (2 credits)
  - Oswaldo Moreno (2 credits)
- Catherine Couture (exchange student; 2 credits): Oregon white oak herbivory research project (co-supervised with Dr. Ava Howard)

## Fall 2019:

- Oak Long-term Ecological Research (LTER) Team [co-supervised with Dr. Ava Howard and Dr. Jeff Snyder]
  - Shayla Solomon (2 credits)
  - Henry Roberts (2 credits)
  - Samantha Sackett (2 credits)
  - Oswaldo Moreno (2 credits)

## Summer 2019:

- Halie Bates (3 credits): Herpetological Research Experience II – Effects of habitat restoration on the endangered Western Pond Turtle (*Actinemys marmorata*)

## Spring 2019:

- Halie Bates (2 credits): Herpetological Research Experience – Effects of habitat restoration on the endangered Western Pond Turtle (*Actinemys marmorata*)
- Blake Looney (2 credits): Herpetological Research Experience – Effects of human recreation on the abundance and diversity of reptiles at a suburban park
- Jared Shorten (2 credits): Herpetological Research Experience – Interactions of antipredator behavior, aposematic coloration, and toxicity in the rough-skinned newt (*Taricha granulosa*)

## Winter 2019:

- \*Liz Yoon (2 credits): Effects of MgCl<sub>2</sub> road deicing salt on aquatic wildlife
- \*Isaac Manju (1 credit) & \*Tayler Tate (1 credit): Scientific Communication [co-supervised by Dr. Ava Howard]

## Fall 2018:

- Isaac Manju (2 credits) & Tayler Tate (2 credits): Global Urban Evolution – effects of urbanization on white clover evolution (*Trifolium repens*) [co-supervised by Dr. Ava Howard]

*Honors Theses*

## 2021- :

- Emil Ricci – Novel methods for habitat restoration and monitoring basking behavior of endangered Western Pond Turtles in the Willamette Valley

2019-2021:

- Hannah Moshinsky – Exploring how evolving techniques in paleontology has shaped our understanding of dinosaur evolution (co-supervised with Dr. Amy Harwell)

2019-20:

- Ellen Moore (graduated June 2020) – Revising the Environmental Education Curriculum of the Oregon Zoo (co-supervised with Prof. Jim Dawson)

### *CIP Interns*

2021:

- Hannah Moshinsky (invertebrate taxonomy and ecology research assistant)

### **University of Melbourne**

#### *Graduate Students (Primary or Co-supervisor):*

- Martin Lockett (PhD, 2021, UniMelb): Effects of artificial light at night on the behavioural and community ecology of insects (co-supervised by Dr. Therésa Jones, Uni Melbourne)
- Martin Lockett (M.Env., 2016, UniMelb): Effects of different spectra of artificial light at night on invertebrate communities (co-supervised by Dr. Therésa Jones, Uni Melbourne)

#### *Graduate Students (Committee Member):*

- Sarah Nielsen (MSc., 2018, UniMelb): Using rapid acoustic surveys to measure diversity and complexity of birds in Sulawesi, Indonesia.
- Oakley Germech (MSc., 2019, UniMelb)

#### *Undergraduate Students (\*Honours thesis co-supervision; #Summer student):*

##### *Independent Project Supervision:*

- L. Michael Botha (BSs, 2015): Effects of artificial light at night on cricket mating & courtship behaviour
- Jasmine Maftai-Muirson (BSc, 2016-, University of South Australia): Salinity tolerance of *Crinia signifera* tadpoles in South Australia
- Eliza Thompson, Naomi Cullinan (BSc, 2017-18): Effects of artificial light at night on cricket pre-copulatory mate-finding behavior

##### *Research Assistants:*

- Arrabella Eyre (BSc, 2016-, UniMelb)

### **Utah State University**

#### *Undergraduate Students*

##### *Independent Project Supervision:*

- Georgia Kosmala (BS, 2012-13): Effects of salinity on corticosterone levels of larval newts
- Austin Spence (BS, 2014-15): Effects of ZnO nano-particles across life-history stages in an amphibian

##### *Research Assistants:*

- Brittany Chamberlain (BS, 2013)
- Jory Pett (BS, 2014)
- Britain Parrish (BS, 2011)



**PEER-REVIEWED PUBLICATIONS**

(Total Citations: 642, h-index: 12, i10: 17) (<https://scholar.google.com.au/citations?user=HoP-PuQAAAAJ&hl=en>).

\* denotes undergraduate author

*In preparation*

Lockett, M.T., Rasmussen, R\*, Hopkins, G.R., and T.M. Jones. *In prep.* Introduction of artificial light at night disrupts riparian vertebrate and invertebrate communities and partitions colonization of *Eucalyptus* mesocosms.

Spoelstra, K., Jones, T.M., Teurlinx, S., Courbois, M., Hopkins, Z.M., Visser, M.E., and G.R. Hopkins. *In prep.* Changes in the composition of invertebrate communities by long-term exposure to experimental light differ with light spectra.

McNamara, K., Jones, T.M., Elgar, M.A., Gaston, K.J., Visser, M.E. and G.R. Hopkins. *In prep.* Effects of artificial light at night across an urban-rural landscape on fine-scale calling attributes of field crickets.

Looney, B.\*, D'Antonio, A., and G.R. Hopkins. *In prep.* The effects of outdoor recreation on reptiles in an urban park.

Popchok\*, A., Moreno\*, O., Howard, A., and G.R. Hopkins. *In prep.* Experimental validation of the "float test" for Oregon White Oak (*Quercus garryana*) acorns.

Manus, M.\*, Howard, A., and G.R. Hopkins. *In prep.* Characterizing the abundance, diversity, and composition of herpetofauna communities in contrasting Oregon White Oak (*Quercus garryana*) habitats.

Smith, M.\*, Hopkins, G.R., Szpakowski, D., Boatner, R., and S. Barnes. *In prep.* Occurrence and distribution of invasive Common Snapping Turtles (*Chelydra serpentina*) in Oregon.

*In Review/Revision (Submitted)*

Lockett, M.T., Rasmussen, R\*, Hopkins, G.R., and T.M. Jones. *Submitted.* Artificial light increases foraging activity and mutes behavioural responses to moonlight in a territorial honeyeater. **Animal Behaviour** Submitted January 20, 2022

*Published (or in press)*

31. Lockett, M.T., Rasmussen, R\*, Arndt, S.K., Hopkins, G.R., and T.M. Jones. 2022. Artificial light at night promotes bottom-up changes in a woodland food chain. **Environmental Pollution** 310: 119803.

30. Santangelo, J.S<sup>^</sup>,...Hopkins, G.R., Howard, A.R., Manju, I.A.\*, Tate, T.D.\*,...and M.T.J. Johnson. 2022. Global urban environmental change drives adaptation in white clover. **Science** 375:1275-1281. (IF=47.73, citations=17)

<sup>^</sup> *The Global Urban Evolution Project authors: 287 authors total, showing first, last, and WOU affiliated authors here.*

29. Lockett, M.T., Jones, T.M., Elgar, M.A., Gaston, K.J., Visser, M.E., and G.R. Hopkins. 2021. Urban street lighting differentially affects community attributes of airborne and ground-dwelling invertebrate assemblages. **Journal of Applied Ecology** 58: 2329-2339. (IF=6.53, citations=1)
28. Durso, A.M., Neuman-Lee, L.A., Hopkins, G.R., and E.D. Brodie, Jr. 2021. Stable isotope analysis suggests that tetrodotoxin-resistant Common Gartersnakes (*Thamnophis sirtalis*) rarely feed on newts in the wild. **Canadian Journal of Zoology** 99: 331-338. <https://doi.org/10.1139/cjz-2020-0215> (IF=1.24, citations=7)
27. Spence, A.R., French, S.S., Hopkins, G.R., Durso, A.M., Hudson, S.B., Smith, G.D., and L.A. Neuman-Lee. 2020. Long-term monitoring of two snake species reveals immune-endocrine interactions and importance of ecological context. **Journal of Experimental Zoology A** 333: 744-755. (IF=1.92, citations=6)
26. Hopkins, G.R., Maftai-Muirson, J.\*, Doherty, S.\*, Mincham, G., and C.R. Williams. 2020. Salinity tolerance and brackish habitat utilization in the common Australian frog *Crinia signifera*. **Journal of Herpetology** 54: 161-167. (IF=1.03, citations=5)
25. Thompson, E.K.\* , Cullinan, N.M.\* , Jones, T.M., and G.R. Hopkins. 2019. Effects of artificial light at night and male calling on movement patterns and mate location in field crickets. **Animal Behaviour** 158: 183-191. (IF=2.67, citations=6)
24. Hopkins, G.R., Gaston, K.J., Visser, M.E., Elgar, M.A., and T.M. Jones. 2018. Artificial light at night as a driver of evolution across urban-rural landscapes. **Frontiers in Ecology and the Environment** 16(8): 472-479 (IF=9.29, citations=88)
23. Taylor, C.M.\* , Keppel, G., Peters, S., Hopkins, G.R., and G. Kerr. 2018. Establishment and potential spread of the invasive spotted-thighed frog, *Litoria cyclorhyncha* (*Ranoidea cyclorhynchus*) in South Australia. **Transactions of the Royal Society of South Australia** 142: 86-101 (IF=0.73, citations=3)
22. Botha, L.M\*., Jones, T.M., and G.R. Hopkins. 2017. Effects of life-time exposure to artificial light at night on cricket (*Teleogryllus commodus*) mating and courtship behaviour. **Animal Behaviour** 129: 181-188 (IF=2.67, citations=46)
21. Hopkins, G.R., French, S.S., and E.D. Brodie, Jr. 2017. Interacting stressors and the potential for adaptation in a changing world: Responses of populations and individuals. **Royal Society Open Science** 4: 161057 (IF=2.65, citations=10)
20. Neuman-Lee, L.A., Grieves, T., Hopkins, G.R., and S.S. French. 2017. The role of the kisspeptin system in regulation of the reproductive endocrine axis and territorial behavior in male side-blotched lizards (*Uta stansburiana*). **Hormones and Behavior** 89: 48-54 (IF=3.68, citations=8)
19. Spence, A.R.\* , Hopkins, G.R., Neuman-Lee, L.A., Smith, G.D., Brodie, Jr., E.D., and S.S. French. 2016. Detrimental effects of zinc oxide nanoparticles on amphibian life stages. **Journal of Experimental Zoology A** 325A: 415-424 (IF=1.92, citations=12).
18. Hopkins, G.R., Brodie, Jr., E.D., Neuman-Lee, L.A., Mohammadi, S., Bruschi IV, G.A., Hopkins, Z.M.\* , and S.S. French. 2016. Physiological responses to salinity vary with proximity to the ocean in a coastal amphibian. **Physiological and Biochemical Zoology** 89 (4): 322-330 (IF=2.25, citations=40)
17. Hopkins, G.R. and Hopkins, Z.M.\* 2015. Salty salamander: Occurrence of a *Dicamptodon tenebrosus* in a tidal stream. **Northwestern Naturalist** 96 (2): 147-149 (IF=0.54, citations=2)

16. Hopkins, G.R. and E.D. Brodie, Jr. 2015. Occurrence of amphibians in saline habitats: A review and evolutionary perspective. **Herpetological Monographs**<sup>†</sup> 29: 1-27 (IF=1.67, citations=118) <sup>†</sup>cover photo
15. Smith, G.D.\*\* , Hopkins, G.R.\*\*, Mohammadi, S., Skinner, H.M., Hansen, T.\* , Brodie, Jr., E.D., and S.S. French. 2015. Effects of temperature on embryonic and early larval growth and development in the rough-skinned newt (*Taricha granulosa*). **Journal of Thermal Biology** 51: 89-95 (IF=2.36, citations=17)  
\*\* Both authors contributed equally (joint first author).
14. Neuman-Lee, L.A., Stokes, A.N., Greenfield, S.\* , Hopkins, G.R., Brodie, Jr., E.D. and S.S French. 2015. The role of corticosterone and toxicity in the antipredator behavior of the rough-skinned newt (*Taricha granulosa*). **General and Comparative Endocrinology** 213: 59-64 (IF=2.43, citations=24)
13. Wilson, N.J., Stokes, A.N., Hopkins, G.R., Brodie, Jr., E.D., and C.R. Williams. 2014. Functional and physiological resistance of crayfish to amphibian toxins: tetrodotoxin resistance in the white river crayfish *Procambarus acutus*. **Canadian Journal of Zoology** 92: 939-945 (IF=1.24, citations=8)
12. Hopkins, G.R., Brodie, Jr., E.D., and S.S. French. 2014. Developmental and evolutionary history affect survival in stressful environments. **PLoS ONE** 9: e95174. doi:10.1371/journal.pone.0095174 (IF=2.74, citations=24)
11. Hopkins, G.R., French, S.S. and E.D. Brodie, Jr. 2013. Potential for local adaptation in response to an anthropogenic agent of selection: effects of road deicing salts on amphibian embryonic survival and development. **Evolutionary Applications** 6: 384-392 (IF=4.01, citations=41)
10. Hopkins, G.R., French, S.S., and E.D. Brodie, Jr. 2013. Increased frequency and severity of developmental deformities in rough-skinned newt (*Taricha granulosa*) embryos exposed to road deicing salts (NaCl & MgCl<sub>2</sub>). **Environmental Pollution** 173: 264-269 (IF=6.79, citations=52)
9. Neuman-Lee, L.A., Hopkins, G.R., Brodie, Jr., E.D., and S.S. French. 2013. Sublethal contaminant exposure alters behavior in a common insect: Important implications for trophic transfer. **Journal of Environmental Science and Health Part B** 48: 442-448 (IF=1.70, citations=8)
8. Ferry, E.E.\* , Hopkins, G.R., Stokes, A.N., Mohammadi, S., Brodie Jr, E.D. and B.G. Gall. 2013. Do all portable cases constructed by caddisfly larvae function in defense? **Journal of Insect Science** 13: 1-9 (IF=1.32, citations=21)
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5. Gall, B.G., Hopkins, G.R. and E.D. Brodie, Jr. 2011. Mechanics and ecological role of swimming behavior in the caddisfly larvae *Trienodes tardus*. **Journal of Insect Behavior** 24: 317-328 (IF=0.80, citations=11)
4. Hopkins, G.R.\* and P.N. Lahanas. 2011. Aggregation behaviour in a neotropical dendrobatid frog (*Allobates talamancae*) in western Panama. **Behaviour** 148: 359-372 (IF=1.40, citations=4)

3. Hopkins, G.R.\* and S.W. Migabo. 2010. Antipredator skin secretions of the Long-toed Salamander (*Ambystoma macrodactylum*) in its northern range. **Journal of Herpetology** 44: 627-633 (IF=1.03, citations=12)
2. Hopkins, G.R.\*, Klingenberg, M.D., and B.H. Aukema. 2009. Temptations of weevil: feeding and ovipositional behaviour of *Hylobius warreni* Wood (Coleoptera: Curculionidae) on bark in laboratory bioassays. **Agricultural and Forest Entomology** 11: 397-403 (IF=1.89, citations=7)
1. Öhrn, P., Klingenberg, M., Hopkins, G.\* and N. Björklund. 2008. Two non-destructive techniques for sex determination of live adult *Hylobius warreni*. **The Canadian Entomologist** 140: 617-620 (IF=1.18, citations=12)

### TECHNICAL REPORTS

- Bates, H.B.\* and G.R. Hopkins. 2019. Restoration Efforts in Minto Brown Park for Western Pond Turtles: A report on turtle basking activity in response to placement of new basking structures. **Technical Report Submitted to Oregon Department of Fish & Wildlife** September 2019.
- Symanowicz, S.\* and G.R. Hopkins. 2021. Freshwater turtle nesting patterns at Minto Brown Island Park, Salem, OR. **Technical Report Submitted to Oregon Department of Fish & Wildlife** November 2021.

### CONFERENCE AND INVITED PRESENTATIONS

Year	Event	Location	Type
<i>International</i>			
2022	Joint Meeting of Ichthyologists and Herpetologists	Spokane, WA	Oral
2022	Museum Speakers Series, Royal Tyrrell Museum of Paleontology (invited speaker)	Virtual Online	Oral
2021	Society for Integrative and Comparative Biology (invited symposium)	Virtual Online	Oral
2019	Joint Meeting of Ichthyologists and Herpetologists	Snowbird, USA	Poster
2018	Joint Meeting of Ichthyologists and Herpetologists (invited symposium)	Rochester, USA	Oral/Poster
2016	International Society for Behavioral Ecology	Exeter, UK	Oral
2015	Soc. Integrative and Comparative Biology	Palm Beach, USA	Oral */ Poster*
2014	Soc. for Integrative and Comparative Biology	Austin, USA	Oral
2014	Genomes to Biomes Conference	Montréal, Canada	Poster
2013	Evolution Meetings	Snowbird, USA	Poster
2012	7 <sup>th</sup> World Congress of Herpetology	Vancouver, Canada	Oral
2011	Entomological Society of America	Reno, USA	Oral
2009	Entomological Society of America	Indianapolis, USA	Oral
2009	Joint Meeting of Ichthyologists and Herpetologists	Portland, USA	Oral
<i>National/Regional</i>			
2022	Oregon Chapter of The Wildlife Society	Newport, OR	Oral*/Poster*
2021	National Conference of Undergraduate Research	Virtual Online	Poster*

2020	PURE Collaborative Research Talk	Western Oregon University	Oral
2018	Biology Department Invited Seminar	Western Oregon University	Oral
2018	Psychology Department Invited Seminar	Memorial University of Newfoundland	Oral
2017	Aus. Soc. for the Study of Animal Behaviour	Mooroolbark, Australia	Oral
2013	Ecology and Evolution Seminar Series	McGill University, Canada	Invited Speaker
2011	Intermountain Graduate Research Symposium	Utah State University, USA	Oral
2010	Western Forest Insect Work Conference	Flagstaff, USA	Oral *
2009	7 <sup>th</sup> Annual Teaching and Learning Conference	UNBC, Canada	Oral
2009	Provost's Panel on Integrating Teaching and Research	UNBC, Canada	Invited Panelist
2008	Rising Stars of Research National Undergraduate Science Research Competition	Vancouver, Canada	Poster

\*Coauthor on presentation (did not present)

### WOU Student Conference Presentations (External)

\*denotes WOU undergraduate student

- \*Chong, J., Howard, A.R., \*Solomon, S.M., \*Arpaia, K.R., Hopkins, G.R. 2022. Variation in terrestrial invertebrate communities across habitats in an endangered oak ecosystem. **Cascadia Prairie Oak Partnership Conference**. Vancouver, WA, November 2022 (Poster).
- \*Popchock, A., Howard, A.R., \*Moreno, O.A., Snyder, J.W., Hopkins, G.R. 2022. Does the float test work to accurately predict Oregon white oak acorn viability and damage by insects? **Cascadia Prairie Oak Partnership Conference**. Vancouver, WA, November 2022 (Poster).
- \*Symanowicz S., Ringo J., Barnes S., Johnston M., Hopkins G.R. 2022. Freshwater Turtle Nesting Patterns at Minto Brown Island Park, Salem, OR. **Annual Meeting of the Oregon Chapter of The Wildlife Society**. Newport, OR, February 2022. (Oral Presentation)
- \*Broome S., \*Ricci E., Ringo J., Barnes S., Johnston M., Hopkins G.R. 2022. Basking Behavior and Abiotic Factors Contributing to Turtle Presence at Minto Brown Island Park, Salem, OR. **Annual Meeting of the Oregon Chapter of The Wildlife Society**. Newport, OR, February 2022. (Oral Presentation)
- \*Manus M., Howard A., Hopkins G.R. 2022. Characterizing the Abundance, Diversity, and Composition of Herpetofauna Communities in Contrasting Oregon White Oak (*Quercus garryana*) Habitats. **Annual Meeting of the Oregon Chapter of The Wildlife Society**. Newport, OR, February 2022. (Poster – 2<sup>nd</sup> place student poster award!)
- \*Park C.S., Sackett S.M., Snyder J.W., Howard A., Hopkins G.R. 2022. How does Avian Diversity and Abundance Vary among Different Oregon White Oak (*Quercus garryana*) Habitats. **Annual Meeting of the Oregon Chapter of The Wildlife Society**. Newport, OR, February 2022. (Poster)
- \*Roberts H., \*Sackett S., \*Moreno O., \*Solomon S., Hopkins G., Snyder J., Howard A. 2021. Reproductive Health of Oregon White Oak Across Multiple Habitats. **National Conference of Undergraduate Research**. Virtual, April 2021. (Poster)
- \*Sackett S., Howard A., Hopkins G., \*Stolp A., Snyder J. 2021. How Does Avian Diversity, Abundance, and Composition Vary Among Different Oregon White Oak Habitats? **National Conference of Undergraduate Research**. Virtual, April 2021. (Poster)

**GRANTS**

2022	WOU Faculty Development (Category III: Research Project)	US\$3551
2022	WOU Faculty Development Grant for travel to present at JMIH22	US\$1810
2021	WOU Faculty Development (Category IV Course Release for Scholarship)	Awarded
2021	National Parks Service Light Pollution RPF ( <i>collaborative with OSU for \$450,000. WOU's share = \$59,288</i> )	<i>Not Awarded</i>
2021	Oregon Conservation and Recreation Fund	US\$9971
2019	WOU Faculty Development Grant to travel to present research at JMIH19	US\$1484
2016	Robert Johanson and Anne Swann Award for Australian Faunal Research	AU\$3765
2016	Ian Potter Foundation Research Travel Grant	AU\$2100
2016	International Society for Behavioral Ecology Travel Award	US\$700
2014	MacMahon Endowed Ecology Graduate Student Research Award	US\$1000
2013	Society for Northwestern Vertebrate Biology Student Research Grant	US\$1000
2013	USU Ecology Center Graduate Research Support Award	US\$3000
2012	USU Ecology Center Graduate Research Support Award	US\$4000
2012	USU Ecology Center Conference Travel Award to attend WCH7	US\$700
2009	Soc. Study Amphibians Reptiles Student Travel Award to attend JMIH'09	US\$400
2009	UNBC Ecosystem Science and Management Research Travel Award	CD\$200
2007	UNBC van Adrichem Family Undergraduate Research Award	CD\$500

**AWARDS & FELLOWSHIPS**

2022	<b>Western Oregon University Pastega Award* for Excellence in Scholarship</b> <i>*This is the university's top faculty award for research excellence</i>	US\$1000
2022	<i>Nominee</i> Western Oregon University Pastega Award for Excellence in Teaching	<i>Nominated (did not win)</i>
2022	<i>Nominee</i> Western Oregon University Academic Advisor of the Year	<i>Nominated (did not win)</i>
2021	<i>Nominee</i> Western Oregon University Pastega Award for Excellence in Scholarship	<i>Nominated (did not win)</i>
2015	USU School of Graduate Studies Dissertation Fellowship ( <i>declined</i> )	US\$5000
2015	USU College of Science Graduate Researcher of the Year Award	US\$300
2011-2014	Natural Sciences and Engineering Research Council of Canada (NSERC) Postgraduate Doctoral Fellowship	US\$63000
2014	Canadian Society for Ecology and Evolution Poster Award	CD\$200
2012	Soc. Study Amphibians Reptiles Seibert Award (for paper given at World Congress of Herpetology 7)	Honourable Mention
2011	1 <sup>st</sup> Prize (Biology), Intermountain Graduate Research Symposium	US\$100
2010-2011	Natural Sciences and Engineering Research Council of Canada (NSERC) Alexander Graham Bell Canada Graduate Fellowship ( <i>declined in favour of:</i> ) NSERC Postgraduate Fellowship ( <i>accepted</i> )	CD\$17300
2009	Undergraduate Student Achievement in Entomology Award, Entomological Society of America	US\$2000

2008	1 <sup>st</sup> Prize (Discovery Division), Rising Stars of Research National Undergraduate Research Competition	CD\$500
2008	Association of Professional Biologists of BC Scholarship	CD\$1000
2008	Petro-Canada Undergraduate Environmental Science Award	CD\$2000
2005	Univ. Nor. British Columbia Leadership Undergraduate Entrance Award	CD\$2000
2001-3	Medals in Greater Vancouver Regional Science Fairs ( <i>Secondary School</i> )	

### **ACADEMIC SERVICE**

2022-25	Chair, Institutional Animal Care and Use Committee (IACUC)	Western Oregon University
2019-22	Academic Adviser (Pre-Biology (until 2021), Zoology, & Natural History/Field Biology)	Western Oregon University
2020-23	Institutional Review Board Member	Western Oregon University
2020-23	Program for Undergraduate Research Experiences (PURE) Board Member	Western Oregon University
2021-22	NSM Diversity, Equity, and Inclusion Committee Member	Western Oregon University
2021-22	Cross-Disciplinary Working Group on Data Analytics Program Development	Western Oregon University
2018-22	Curator, Vertebrate and Insect Natural History Collections	Western Oregon University
2019-22	Chair, IACUC Formation Task-Force	Western Oregon University
2017-18	Marker/Assessor Animal Behaviour Pedagogical research	Univ. Melbourne
2016-18	BioSciences Early Career Researchers Group Founding Committee Member	Univ. Melbourne
2016	Behaviour & Evolution Research Group Meeting Coordinator	Univ. Melbourne
2015-17	Marker/Assessor, Masters theses (4), Undergraduate / Honours Research Projects (2), MSc. Presentations (2)	Univ. Melbourne
2014-15	Student Representative, Ecology Position Search Committee	Utah State University
2014-15	Chair, Academic Committee & Member, Fundraising Committee, USU Biology Graduate Student Association	Utah State University
2013-14	Member, Academic and Fundraising Committees, USU Biology Graduate Student Association	Utah State University
2011-12	President, USU Biology Graduate Student Association	Utah State University
2011-12	Ecology Center Seminar Series Committee Member	Utah State University
2010-11	Vice-President, USU Biology Graduate Student Association	Utah State University
2007	UNBC Senator (Student Representative)	UNBC Senate

### **PROFESSIONAL SERVICE**

2022 Member, Oregon Native Turtles Working Group

#### **Society Service:**

2022	Chair, Seibert Student Awards Committee, Society for the Study of Amphibians and Reptiles Session Moderator	JMIH Annual Meeting (SSAR)
2019	Session Moderator and Student Presentation Judge	JMIH Annual Meeting (SSAR)
2018	Session Moderator and Student Presentation Judge	JMIH Annual Meeting (SSAR)

2017	Conference Organizing Committee, Australasian Society for the Study of Animal Behaviour (ASSAB) Conference	ASSAB
2014	Co-Chair, Evolutionary Physiology Session	SICB Annual Meeting

**Peer Reviewer for the following Scientific Journals:**

Proceedings of the Royal Society B: Biological Sciences (4); Ecology; Evolutionary Applications (4); Oecologia; Frontiers in Ecology and the Environment; Animal Behaviour; Behavioral Ecology; PLoS One; Journal of Zoology; Journal of Experimental Zoology A: Integrative and Ecological Physiology (4); Journal of Thermal Biology (2); Toxicon; Forest Ecology and Management; Aquaculture Research; Herpetological Conservation and Biology; Herpetological Journal; Herpetological Review; Herpetology Notes; African Journal of Herpetology; Zoological Science; Biological Conservation; Transactions of the Royal Society of South Australia; Diversity; Comparative Biochemistry and Physiology; Conservation Physiology; Marine and Freshwater Research; Frontiers in Zoology; Global Change Biology; Biological Journal of the Linnean Society; Annals of Applied Biology; Conservation Biology; Environmental Pollution (3); Science of the Total Environment; Conservation Physiology; Keystone Journal of Undergraduate Research

**Peer Reviewer for the following Funding Agencies:**

Natural Sciences and Engineering Research Council of Canada (NSERC); Austrian Academy of Sciences; Graduate Women in Science National Scholarship

**MEMBERSHIPS IN PROFESSIONAL SOCIETIES**

Entomological Society of America; Society for the Study of Amphibians and Reptiles; Oregon Chapter of The Wildlife Society; Society for Integrative and Comparative Biology; Society for Northwestern Vertebrate Biology

**PUBLIC ENGAGEMENT**

I have led or participated in 25 different science public outreach events over the last 15 years, presenting about the natural history and conservation of insects, amphibians, and reptiles to diverse audiences ranging from daycare children to adults. I have volunteered as a school science fair judge, and animal carer for various educational and conservation organizations. Specific to the Monmouth-Independence area, I have given a presentation (Spring 2019) to the Monmouth-Independence Rotary Group on the effects of artificial light at night, and actively engaged with the Ash Creek Water Control Board to advise on ecological matters relating to the watershed (Fall 2018-Spring 2019). My research has also been featured in several media outlets (e.g., CBC Radio Daybreak North and Hakai magazine <http://www.hakaimagazine.com/article-short/secret-lives-coastal-frogs>), and I have responded to media requests for comments on new research (e.g., from *Science* magazine to comment/provide expert opinion on new studies regarding light pollution and insect declines). Most recently I gave an invited public lecture on evolution for the Royal Tyrrell Museum of Paleontology (Alberta, Canada), which can be viewed on Youtube here: <https://youtu.be/4jJFH6wIEao>

**REFERENCES**

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