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CV Updated: 13 March, 2022

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Academic Appointments

2020-2022

USDA NIFA Postdoctoral Fellow, Ornamental Plant Pathology, WSU Puyallup Research and Extension Center, Washington State University.

Education

2015-2020

PhD Plant Pathology, Forestry and Agricultural Biotechnology Institute, Dept. of Plant & Soil Science, University of Pretoria, South Africa. Dissertation: *Phytophthora* diversity in the Cape Floristic Region. Primary Supervisor: Mike Wingfield. Co-Supervisors: Treena Burgess, Francois Roets.

2016-2019

Affiliate Research Student, Dept. of Conservation Ecology & Entomology, Stellenbosch University, South Africa.

2012-2014

Dual MSc Dept. of Botany & Plant Pathology, Dept. of Wood Science & Engineering, Oregon State University. Thesis: Phytosanitation of Douglas-fir (*Pseudotsuga menziesii*) logs to mitigate the risk of artificially disseminating *Phytophthora ramorum* within the global trade of timber. Advisers: Everett Hansen & Jeff Morrell.

2006-2010

BSc Dept. of Natural Resource Sciences, Washington State University. Undergraduate Thesis: Influence of climatic variables on forest growth in the Sierra Nevada Mountains.

Initiatives

2020-

Program director, *Forest Health Watch* (<https://foresthealth.org/>), Washington State University, United States Department of Agriculture, National Institute of Food and Agriculture.

2022-

Prime mover, *Open Redcedar Adaptation Network* (<https://jmhulbert.github.io/adaptation>), Washington State University.

2020-

Organizer, *WSU Forestry Working Group*, Washington State University.

2020-

Organizer, <https://pnwcitsci.org/>

2016-

Project leader, *Cape Citizen Science* (<https://citsci.co.za/>), Forestry and Agricultural Biotechnology Institute, University of Pretoria, Stellenbosch University, DST-NRF Centre of Excellence in Tree Health Biotechnology.

2019-

Prime mover, *Forest Health Citizen Science Community* (<https://fhcs.page/>).

2018-2019

Instructor, *R for biology and ecology workshop series* (<https://jmhulbert.github.io/r/>), two series offered at University of Pretoria and one series offered at Stellenbosch University.

2012-2014

Co-founder, *Inspiration Dissemination* (<http://blogs.oregonstate.edu/inspiration/>), KBVR 88.7fm, Oregon State University.

Community Service

2021-

Volunteer, Nature and Environment Council, MetroParks Tacoma

2021-

Member, Pierce County Community Engagement Task Force

2021-

Volunteer Mechanic, Second Cycle, Tacoma, Washington

2020-

Voting Member, Puyallup Watershed Initiative, Forest Community of Interest

2018

Volunteer Mechanic, Palouse Bicycle Collective, Moscow, Idaho

2014-2015

Publications

Peer-Reviewed

- Engelbrecht J, Duong TA, Paap T, **Hulbert JM**, Hanneman JJ, van den Berg N 2022 . Population genetic analyses of *Phytophthora cinnamomi* reveals three lineages and movement between natural vegetation and avocado orchards in South Africa. *Phytopathology*. DOI: 10.1094/PHYTO-10-21-0414-R
- Bose TB, **Hulbert JM**, Burgess TI, Paap T, Wingfield MJ 2021. Two novel *Phytophthora* species from the Cape Floristic Region of South Africa. *Mycological Progress*, 20(6):755-767. DOI: 10.1007/s11557-021-01702-y.
- Elliott M, **Hulbert JM**, Streng D, Chastagner GA 2021. Multiagency collaborations help public gardens contain Phytophthora outbreaks while providing insights and opportunities for novel research. *Plant Health Progress* (First Look). DOI: 10.1094/PHP-02-21-0045-FI.
- Paap T, Wingfield MJ, Burgess I, **Hulbert JM**, Santini A. 2020. Harmonising the fields of invasion science and forest pathology. *NeoBiota* 62:301-332. DOI: 10.3897/neobiota.62.52991.
- **Hulbert JM**, Paap T, Burgess TI, Roets F, Wingfield MJ. 2019. Botanical gardens provide valuable baseline *Phytophthora* diversity data. *Urban Forestry and Urban Greening* 46:126461. DOI: 10.1016/j.ufug.2019.126461.
- Ryan SF and 41 others, 2018. The role of citizen science in addressing grand challenges in food and agriculture research, *Proceedings of the Royal Society B* 285(1891). DOI: 710.1098/rspb.2018.1977.
- **Hulbert JM**, Agne MC, Burgess TI, Roets F, Wingfield MJ. 2017. Urban environments provide opportunities for early detection of *Phytophthora* invasions, *Biological Invasions* 19:3629–3644. DOI: 10.1007/s10530-017-1585-z.
- Peterson E, Hansen EM, **Hulbert JM**. 2014. Source or Sink? The role of soil and water borne inoculum in the dispersal of *Phytophthora ramorum* in Oregon tanoak forests. *Forest Ecology and Management*, 322:48-57. DOI: 10.1016/j.foreco.2014.02.031.

Not Peer-Reviewed

- Elliott M, Rollins L, Bourret T, **Hulbert JM**, Chastagner GA 2021. Three new hosts for *Phytophthora ramorum* confirmed in Washington State: Salal, Oregon grape, and red huckleberry, *Plant Health Progress* (First Look). DOI: 10.1094/PHP-01-21-0003-FI.
- Chastagner GA, Elliott M, **Hulbert JM** 2021. Effectiveness of fungicides and biopesticides in controlling Botrytis gray mold on western hemlock nursery stock. *Tree Planter's Notes*, 64(1):21-31.
- **Hulbert JM**, Turner SC, Scott SL. 2019. Challenges and solutions to establishing and sustaining citizen science projects in South Africa, *South African Journal of Science*, 115(7/8). DOI: 10.17159/sajs.2019/5844.
- Auerbach J, Barthelmess E, Cavalier D, Cooper C, Fenyk H, Haklay M, **Hulbert JM**, Kyba C, Larson L, Lewandowski E, Shanley L. 2019. The problem with delineating narrow criteria for citizen science. *Proceedings of the National Academy of Sciences*, 116(31). DOI: 10.1073/pnas.1909278116.
- **Hulbert JM** 2019. Citizen science increases the ethics of foreign led research, *Narrative Inquiry in Bioethics*, Johns Hopkins University Press. Volume 9, Number 1, Spring 2019. DOI: 10.1353/nib.2019.0024.
- Van der Colff D, Ebrahim I, Powrie LW, Rebelo AG, Edge D, Mecenero S, Scott SL, Hoffman MT, **Hulbert JM**, Dithale N, Mahood K, Gafen M, Sink KJ, Franken M, Zikishe V, Grieve K, Parbhoo S, Dayaram A and Turner SC. 2019. 'Biodiversity provides opportunities for citizen science' chapter in *National Biodiversity Assessment 2018: Compendium of Benefits of Biodiversity*. South African National Biodiversity Institute, Pretoria. hdl.handle.net/20.500.12143/6491
- **Hulbert JM**, Roets F. 2018. Science engagement in South Africa. *Science*, 361(6406):985. DOI: 10.1126/science.aav1499.
- **Hulbert JM**. 2016. Citizen science tools available for ecological research in South Africa, *South African Journal of Science*, 112:5/6. DOI: 10.17159/sajs.2016/a0152.

Manuscripts in Review or Revision

- **Hulbert JM**, Roets F, Burgess T, Paap T, Wingfield M. (under revision). Citizen science can enhance biosecurity in developing economies.
- **Hulbert JM**, Roets F, Burgess TI, Wingfield MJ. (under revision). Exotic and putatively native *Phytophthora* species are associated with distinct plant communities in southern Afrotropical Forests.
- Louw NL, Roets F, **Hulbert JM** (under revision). Molecular techniques reveal additional factors in the decline of the endangered silver tree (*Leucadendron argenteum*).
- **Hulbert JM**, Scholtz K, Roets F. (under revision). Youth participation in citizen science reveals differences between outreach and engagement and connects plant pathology research to public health.

Manuscripts in Prep

- **Hulbert JM** (submitted). More mentorship needed for research co-production with marginalized communities.
- Brooks R, **Hulbert JM**, Omdall D, Elliott M, Chastagner GA (submitted). Sooty Bark Disease Diagnostic Guide, WSU Extension Fact Sheet.
- **Hulbert JM**, Cleary M, Hallett RA, Roy HE and others (in prep). Citizen science can add value to forest pest and pathogen management frameworks.
- Fraisl D, Hager G, Bedessem B, Hsing P, Gold M, Haklay M, **Hulbert, JM**, and others (in prep). Citizen Science, Nature Reviews Methods Primer.
- **Hulbert JM** and others (in prep). Citizen science links environmental factors to western redcedar dieback.

Funding and Support

Funded Postdoctoral Fellowship Research Proposals

2020-2022

PD, *Forest Health Defenders: enhancing biosecurity through public engagement in plant disease research*. USDA NIFA EWD Postdoctoral Research Fellowship program (**\$164,967**).

Submitted Postdoctoral Fellowship Research Proposals

2020-2021

PI, *Developing a toolkit for climate adaptive conservation of the western redcedar in the Pacific Northwest*. USGS Northwest Climate Adaptation Science Center Research Fellowship Program (**\$63,383**). **Application withdrawn to accept above.**

FY2020-2022

PI, *Surveying Phytophthora diversity in the Olympic National Forest with citizen science*. NSF Postdoctoral Fellowship in Biology, Broadening Participation of Groups Under-represented in Biology (**\$138,000**). **Application withdrawn to accept above.**

FY2020

Postdoc, *Forest Health Defenders: public engagement to conserve the western redcedar*. David H. Smith Conservation Research Fellowship, Society for Conservation Biology (**\$123,000**).

FY2019

Postdoc, *Moss, metals and microbes: revealing hotspots of stormwater contamination with citizen science in the Puget Sound*. David H. Smith Conservation Research Fellowship, Society for Conservation Biology (**\$178,710**).

Funded Research Grants

2022

PI, *Increasing Native Vigilance, Awareness and Surveillance of Invasions via Education (INVASIVE) Project*. USDA APHIS PPQ PPA Section 7721 **(\$87,763)**.

2021

Co-PI, *Survey and diagnostic activities to identify distribution and host range for maple sooty bark disease in urban areas of the Puget Sound region*. USDA Forest Service Emerging Pests program **(\$31,750)**.

2020

Cooperator/Proposal Author, *Lateral movement of Phytophthora ramorum in nursery substrates*. USDA APHIS PPQ PPA Section 7721 **(\$48,582)**.

2020

Cooperator/Proposal Author, *Stream survey of Phytophthora spp. present in Pacific Northwest larch forests considered to be high risk for P. ramorum establishment*. USDA Forest Service Emerging Pests program **(\$35,910)**.

Submitted Research Grants

2022

PI, *Tacoma Sooty Bark Disease Vulnerability*. Washington State Department of Natural Resources, Community Forestry Assistance Grant **(\$40,000)**.

2022

Co-PI, *Washington Nursery and Landscape Biosurveillance Education Program*. Washington State Department of Agriculture, Nursery Research Funding **(\$33,337)**.

2021

PI, *Community engagement to explore the microbes associated with the dieback of western redcedar*. USGS Directed Research Funding - Northwest Climate Adaptation Science Center **(\$226,493)**.

2021

PI, *Empowering communities to understand the effects of climate change on forest health, accelerate research about the dieback of western redcedar, and recognize genetic diversity as a tool for increasing climate resiliency*. USDA Forest Service Urban & Community Forestry 2021 Challenge Cost Share Grant Program **(\$299,539)**.

2020

Co-PI/Postdoc, *Seattle Urban Forest Atlas: An interactive citizen-science geo-database and simulation platform to promote healthy, resilient, and equitable urban forests*. University of Washington EarthLab Innovation Grants Program **(\$74,141)**.

2019

PI, *Forest Health Defenders: Public engagement to conserve the western redcedar*. USDA Forest Service Citizen Science Competitive Funding Program Application **(\$30,000)**.

Funded Outreach Grants

2020

Tribal Engagement Activity Proposal, Forest Community of Interest, Puyallup Watershed Initiative **(\$8,500)**.

2018

Social Impact Grant, Faculty of AgriScience, Stellenbosch University (~\$4,000).

2017

Mathre Education Endowment Award, American Phytopathological Society (\$1,000).

2017

Plant Pathology Promotion Fund, British Society for Plant Pathology (~\$2,500).

Crowdfunded Projects

2017

Engage Kayamandi Youth in Cape Citizen Science with Vision Afrika, DOI:10.18258/8690 (\$626).

2015

Discovering Plant Destroyers in South Africa with Citizen Science, DOI:10.18258/2066 (5,000).

In Kind Support (materials/equipment)

2021

Field Sampling Equipment (GPS units, camera traps, communication devices), Transition Fidalgo

2021

Field Notebooks, Rite in the Rain

2021

Western redcedar trees, Weyerhaeuser

2021

Soil temperature and moisture monitoring equipment, Meter

2017

Field Guide to Fynbos (20 copies), Rapula Trust

Sponsored Internship Proposals

2022

Supporting ornamental, flower, and bulb crop productions in the Pacific Northwest through applied research, College of Agriculture, Human and Natural Resource Sciences, Washington State University, Research and Extension Experiences for Undergraduates (REEU): Sustainable High-value Horticulture and Processing (\$4,500).

2022

Keeping trees healthy in changing environments of the Pacific Northwest, College of Agriculture, Human and Natural Resource Sciences, Washington State University (\$3,000).

2021

Tree health and heat islands in Seattle, College of the Environment, Environmental Science, University of Washington, Capstone Project Proposal.

Academic Honors & Awards

2019

Getting the Message to the Public, Forestry and Agricultural Biotechnology Institute

2018

Travel Fund, British Society for Plant Pathology

2018

Stephen A. Johnston Student Travel Award, American Phytopathological Society

2016

Getting the Message to the Public, Forestry and Agricultural Biotechnology Institute

2016

Best Student Personal Website, Forestry and Agricultural Biotechnology Institute

2015

Best PhD Oral Presentation, Dept. of Plant Science Postgraduate Research Symposium

2014-2015

Graduate Scholarship, Oregon Lottery

2014

Travel Award, Oregon State University Graduate School

2014

Student Travel Award, Botany and Plant Pathology Graduate Student Association

2014

Bartholomew Memorial Scholarship

2014

Most Innovative Radio Program, Intercollegiate Broadcasting System

2014

Best WSE Oral Presentation, Western Forestry Graduate Research Symposium

2013-2014

Schutz Family Fellowship

2013-2014

Alfred W. Moltke Fellowship

2013-2014

Jack & Lila Saubert Fellowship

2013-2014

Larry Moore Award for Graduate Education in Plant Pathology

2013

Student Travel Award, Western International Forest Disease Work Conference

Academic Leadership

2020-

Program Director, Forest Health Watch

2020-

Organizer, Forestry Working Group, Washington State University

2021-

Member, Forest Adaptation Network

2017-2020

Committee Member, American Phytopathological Society, Committee for Diversity and Equality

2017-2020

Committee Member, American Phytopathological Society, Forest Pathology Committee

2016-

Founder and Project Leader, Cape Citizen Science

2015

Coordinator, University of Pretoria Invasive Species Journal Club

2014

Founder and Director, Botany and Plant Pathology BUDS Program

2014

Planning Committee Member, Western Forestry Graduate Research Symposium

2013-2014

President, Botany and Plant Pathology Graduate Student Association

2013-2014

Co-Founder and Director, Forest Graduate Undergraduate Mentorship Program

2013

Planning Committee Member, Western Forestry Graduate Research Symposium

2013

Planning Committee Member, College of Forestry Graduate Student Orientation

2013

Organizer, Natural Science Graduate Student BBQ

2012-2014

Co-host, Inspiration Dissemination

2012-2014

Officer, College of Forestry Graduate Student Council

2012-2014

Wood Science Steward, Coalition of Graduate Employees

2012-2014

Graduate Representative, Dept. of Wood Science and Engineering

2012-2014

Committee Member, Wood Science and Engineering Graduate Affairs

2012

Organizer, Natural Science Graduate Student BBQ

Teaching Experience

Co-direction

2021

University of Washington, Human Centered Design and Engineering, Directed Research Group, Winter & Spring Quarters, *The UX of climate change: western redcedar dieback*.

Field Assistance

2021

Evergreen State College, Environmental Studies Path Affiliation, *Field Ecology*

2021

Green River College, BAS in Forest Resource Management program, *Forest Ecology*

Guest Lectures

2022

Washington State University, School of the Environment, Graduate class in Ecology (SOE 593) Lecture, *Western redcedar dieback and the community science approach*.

2021

Washington State University, Department of Plant Pathology, General Plant Pathology (PLP 429) Lecture, *Forest Pathology - concepts and issues in the Pacific Northwest*.

2021

Pierce College, Cell Biology, On-Campus Lecture, *The need for more forest health scientists to increase climate resilience in urban communities*.

2021

Green River College, Forest Resource Management, Forest Health and Protection course, On-Campus Lab instruction, *Sooty bark disease and western redcedar dieback on Green River campus*.

2021

Pacific University, Department of Biology and Environmental Science, Plant Pathology, *Western redcedar dieback - plant pathology research with Pacific University*.

2021

Evergreen State College, Environmental Studies, Field Ecology Lecture, *Western redcedar dieback - exploring local project opportunities with students at Evergreen State College*.

2021

Green River College, Forest Resource Management, Forest Ecology Lecture, *Western redcedar dieback - exploring local project opportunities with students at Green River College*.

2021

Washington State University, School of the Environment, Disturbance Ecology (SOE 485) Lecture, *Tree root diseases - effects at multiple scales*.

2021

University of Washington, Human Centered Design and Engineering, Directed Research Group, Winter & Spring Quarters, The UX of climate change: *Forest Health Watch - community engagement for healthy forests*

2020

Washington State University, Department of Plant Pathology, General Plant Pathology (PLP 429) Lecture, *Forest Pathology*.

2020

Washington State University, 4H Ecostewards Program, Chelan/Douglas County Extension, Guest Lecture, *Super Fungi - adaptations and super powers*.

2018

Cape Peninsula University of Technology, Faculty of Applied Sciences, Btech Plants Module, Lecture, *Invasive microscopic organisms: plant pathogens and biosecurity*.

2018

Stellenbosch University, Dept. of Conservation Ecology & Entomology, CONSECOL414: Advanced Conservation Management, Lecture, *Microscopic organisms: plant promoters and plant destroyers*.

2017

Stellenbosch University, Dept. of Conservation Ecology & Entomology, CONSECOL414: Advanced Conservation Management, Lecture, *A look into the microscopic world: lifelines or invisible threats*.

2017

Stellenbosch University, Dept. of Conservation Ecology & Entomology, CONSECOL414: Advanced Conservation Management, Field Course, Drie Kulien Nature Reserve.

2016

Stellenbosch University, International Winter School, Biodiversity & Ecology Course, Lecture, *Surveying Phytophthora species with citizen science*.

Workshop Instruction

2019

University of Pretoria, Faculty of Natural and Agricultural Sciences, *R for biology data science workshop series (5 sessions, 76 participants, packages: ggplot2 and dplyr)*.

2019

University of Pretoria, Forestry and Agricultural Biotechnology Institute, *RStudio and R package workshop series (5 sessions, 35 participants, packages: ggplot2, dplyr, vegan and Markdown)*.

2018

Stellenbosch University, Dept. of Conservation Ecology & Entomology, *RStudio and R package workshop series (4 sessions, 23 participants, packages: ggplot2, dplyr, and vegan)*.

Courses Prepared to Teach

- Potential courses
 - Methods of Citizen and Community Science
 - Urban Forestry and Climate Change
 - Invasion / Disturbance Ecology
 - Forest Health and Protection
 - General Plant Pathology / Biology
 - Science Communication / Grant Writing
 - Interactive Data Visualization
 - General Applied Ecological Statistics
 - Introduction to GIS

Webinar, Conference Organization & Panels Served

Webinar Organization

2021

Webinar Co-Organizer, Western Redcedar: Cultural and ecological reflections and dieback concerns, Treeline Webinar Series.

2021

Webinar Co-Organizer, Arbutus ARME (<https://www.arbutusarme.org>), Inaugural Member Meeting -Spring.

2021

Session Moderator (4 sessions), Washington Forest Owners' Winter School, Washington State University Extension.

2020

Webinar Co-Organizer, Arbutus ARME (<https://www.arbutusarme.org>), Inaugural Member Meeting (Webinar).

Conference Organization

2021

Conference Co-Organizer, *Pacific Northwest Citizen Science Summit*, Online Conference, Zoom.

2019

Session Coordinator, *Forest health defenders: empowering citizens to protect forests through research contributions*, IUFRO XXV World Congress, Curitiba, Brazil.

2018

Event Co-organizer, *South Africa Citizen Science Fair, International Citizen Science Day Event*, Kirstenbosch National Botanical Garden, Cape Town, South Africa.

2017

Session Coordinator, *Early detection and monitoring of invasive forest pests and pathogens with citizen science*, IUFRO 125th Anniversary Congress, Freiburg, Germany.

2014

Symposium Planning Committee, *Canopies to construction: the ecology, management and use of tomorrow's forests*, Western Forestry Graduate Symposium, Corvallis, Oregon, USA.

2013

Symposium Planning Committee, *Branching out: communicating forest research beyond academics*, Western Forestry Graduate Symposium, Corvallis, Oregon, USA.

Invited Panel Participation

2021

Urban Forests: Climate Change Solution or Casualty? Youtube, Cascadia Climate Action, Climate Science on Tap Event.

2015

Is one tree worth a forest? World Forestry Congress, World Cafe Forest Health Session, Durban, South Africa.

2013

Maximizing your graduate education, new student orientation panel, Graduate School, Oregon State University.

Presentations

Presentations at Professional Meetings

North American Conferences

2021

Hulbert JM, Western redcedar dieback as an indicator of the effects of climate change on cultural resources and tribal communities, 2021 Rising Voices Workshop, Virtual (Poster-walk) Presentation

2021

Hulbert JM, So, you want to start a citizen science project?, 2021 Pacific Northwest Citizen and Community Science Summit, Virtual Presentation.

2021

Hulbert JM, Forest Health Watch: empowering community scientists to accelerate research, Northwest Climate Conference (Online), Virtual Presentation.

2021

Hulbert JM, Urban Ecology and Conservation Symposium, Urban Ecosystem Research Consortium, Exploring the dieback of western redcedar as a symbol of the inequities in urban environments. Video Poster Presentation.

2018

Hulbert JM, Burgess TI, Roets F, Wingfield MJ. 2018. Pathogen hunters: nonscientist engagement in plant disease research, International Congress for Plant Pathology, Boston. Poster Presentation.

2018

Hulbert JM, Burgess TI, Roets F, Wingfield MJ. 2018. The Cape Town Hypothesis Test: *Phytophthora* in urban vs natural environments, International Congress for Plant Pathology, Boston. Poster Presentation.

2014

Hulbert JM, Morrell JJ, Hansen EM. 2014. Chemical treatment to sanitize *Phytophthora ramorum* colonized timber products and mitigate the risk of accidental dissemination of Sudden Oak Death. International Union of Forest Research Organizations, World Congress. Salt Lake City. Poster Presentation.

2014

Hulbert JM, Rosenberger R. 2014. Forest G.U.M.P. The value of graduate-undergraduate mentorship programs. International Union of Forest Research Organizations, World Congress. Salt Lake City. Poster Presentation.

2014

Hulbert JM, Morrell JJ, Hansen EM. 2014. Potential of using boron for mitigation of *Phytophthora ramorum* in Douglas-fir logs. International Research Group on Wood Protection 45th annual meeting. St. George, Utah. Oral Presentation.

2014

Hulbert JM, Kamvar Z. 2014. *Inspiration Dissemination*: Science Communication for College Students. American Association for the Advancement of Science Annual Meeting. Chicago, Illinois, Poster Presentation.

2014

Hulbert JM 2014. The value of graduate-undergraduate mentorship programs. Biennial Conference on University Education in Natural Resources Auburn University, Auburn, Alabama.

2014

Hulbert JM, Kamvar Z. 2014. *Inspiration Dissemination*: Science Communication for College Students. Biennial Conference on University Education in Natural Resources Auburn University, Auburn, Alabama.

2012

Hulbert JM, Morrell J, Hansen E. 2012. Chemical treatment to sanitize *Phytophthora ramorum* colonized timber products. Western International Forest Disease Work Conference, Tahoe City, California. Oral Presentation.

2011

Hansen E, **Hulbert JM**, Reeser P, Sutton W, Kanaskie A. 2011. Sudden larch death? Larch susceptibility to *Phytophthora ramorum*. Western International Forest Disease Work Conference, Leavenworth Washington. Poster Presentation.

International Conferences

2019

Hulbert JM. Methods of public engagement in forest health research, IUFRO XXV World Congress, Curitiba, Brazil. Oral Presentation.

2019

Hulbert JM, Burgess T, Roets F, Wingfield MJ. Non-scientist engagement in plant disease research in South Africa, IUFRO XXV World Congress, Curitiba, Brazil. Oral Presentation.

2017

Hulbert JM, Burgess T, Roets F, Wingfield MJ. Public engagement to survey *Phytophthora* in South Africa, IUFRO Working Party *Phytophthora* in forests and natural ecosystems (7.02.09), Sapa, Vietnam. Oral Presentation.

2017

Hulbert JM, Roux J, Burgess T, Roets F, Wingfield MJ. Citizen science initiatives: opportunities to manage global forest pest challenges, IUFRO 125th Anniversary Congress, Freiburg, Germany. Oral Presentation.

2017

Hulbert JM, Roux J, Burgess T, Roets F, Wingfield MJ. Cape Citizen Science: public engagement to detect and discover *Phytophthora* species in South Africa, IUFRO 125th Anniversary Congress, Freiburg, Germany. Poster Presentation.

2017

Hulbert JM, De Beer ZW, Wingfield MJ. Cape Citizen Science: public engagement for plant disease research in a biodiversity hotspot, International Botanical Congress, Shenzhen, China, Poster Presentation (not presenting author).

2014

Hulbert JM, Morrell JJ, Hansen EM. Wooden Vectors of *Phytophthora ramorum*: Are Douglas-fir Logs a Risk? Seventh Meeting of the IUFRO Working Party 7.02.09 *Phytophthora* in Forests and Natural Ecosystems, Esquel, Argentina. Poster Presentation (not presenting author).

2012

Peterson E, **Hulbert JM**, Hansen EM. Roads and streams are not significant pathways for SOD spread in tanoak forests. 6th IUFRO *Phytophthora* in Forest and Natural Ecosystems. Cordoba, Spain. Oral Presentation (not presenting author).

South African Conferences

2018

Hulbert JM. Igniting conversations with community engagement: establishing citizen science projects in South Africa, Science Forum South Africa, Pretoria, South Africa. Oral Presentation.

2017

Hulbert JM, Roets FR. Indigenous plant pathogens and their contributions to plant community diversity, Fynbos Forum, Swellendam, South Africa. Oral Presentation.

2017

Hulbert JM, Roets FR. Revealing hidden threats to fynbos biodiversity with citizen science, Fynbos Forum, Swellendam, South Africa. Oral Presentation.

2017

Hulbert JM, Roux J, Burgess TI, Roets F, Wingfield MJ. Methods of surveying plant pathogens with citizen science, South African Society for Plant Pathology, 50th anniversary meeting, Champagne Sports Resort, KwaZulu-Natal Province, South Africa. Oral Presentation.

2017

Hulbert JM, Roux J, Burgess TI, Roets F, Wingfield MJ. Public engagement in South Africa's ecological research: the 'how' and 'why' of citizen science, South African Association of Botanists, Annual Meeting, Cape Town, South Africa. Oral Presentation.

2016

Hulbert JM, Agne MC, Roux J, Burges TI, Roets F, Wingfield MJ. Records of *Phytophthora* invasions suggest that early detection programs should focus on urban environments, DST-NRF Centre of Excellence for Invasion Biology Workshop, *Non-native species in urban environments: patterns, processes, impacts and challenges*, Stellenbosch, South Africa. Oral Presentation.

2016

Hulbert JM. Monitoring invasive species with citizen science: an international review, Joint South African Association of Botanists-Southern Africa Society for Systematic Biology Conference, Bloemfontein, South Africa. Oral Presentation.

2015

Hulbert JM. Early detection and monitoring of invasive plant pests with citizen science, DST-NRF Centre of Excellence for Invasion Biology Workshop, *Evolutionary Dynamics of tree invasions: drivers, dimensions, and implications for management*, Stellenbosch, South Africa. Oral Presentation.

Symposia, Seminars, Invited and Public Talks

Symposia

2021

Washington State University Research Showcase, *Community science to keep forests healthy in the face of climate change*. Poster presentation.

2021

Washington State University, 4th Annual plant Science Symposium, *Forest Health Watch: community science to accelerate research about the dieback of western redcedar*. Poster presentation.

2020

Portland State University, Cedar Summit, *Understanding western redcedar dieback: the community science approach*, Webinar Presentation.

2020

Puyallup Watershed Symposium, Pierce County, *Forest Health Watch - community science for healthy forests*, Webinar Presentation.

2019

University of Pretoria, Forestry and Agricultural Biotechnology Institute, Tree Protection Co-operative Program Annual Meeting, *Phytophthora multivora: local driver of plant diversity and global agent of bio-insecurity*.

2018

University of Pretoria, Forestry and Agricultural Biotechnology Institute, Tree Protection Co-operative Program Annual Meeting, *Phytophthora diversity in southern Afrotemperate forests*.

2017

Stellenbosch University, Dept. of Conservation Ecology & Entomology, Research Day, *Introduction to Cape Citizen Science: A project to engage the public in plant disease research*.

2016

University of Pretoria, Forestry and Agricultural Biotechnology Institute, Tree Protection Co-operative Program Annual Meeting, *Developing a citizen science program on tree health in South Africa*.

2016

University of Pretoria, Forestry and Agricultural Biotechnology Institute, NRF-DST Centre of Excellence in Tree Health Biotechnology Annual Meeting, *The history of Phytophthora cinnamomi in South Africa*.

2015

University of Pretoria, Dept. of Plant & Soil Science Postgraduate Research Symposium, *Introduction to Cape Citizen Science: A project to engage the public in plant disease research*.

2014

Oregon State University, College of Forestry, Western Forestry Graduate Research Symposium, *Wooden vectors of Phytophthora ramorum: Are Douglas-fir logs really a risk?*

2013

Oregon State University, College of Forestry, Western Forestry Graduate Research Symposium, *Chemical treatments to sanitize Phytophthora ramorum colonized timber material and mitigate the risk of artificial Sudden Oak Death dissemination.*

Seminars and Lab Meetings

2021

USDA Forest Service, Forest Health and Protection (Region 6), monthly forest pathology meeting, *Sooty Bark Disease: climate change 'time bomb' in many broadleaf trees in the PNW* (Virtual Presentation).

2021

Washington State University, Department of Plant Pathology Spring Seminar Series, *Forest Health Watch: community engagement for healthy forests* (Virtual Presentation).

2021

Systematic Biology Seminar, Systematic Biology Programme, Uppsala University, Sweden *Citizen science methods to accelerate research about forest health issues* (Virtual Presentation).

2020

Washington State University, Forestry Working Group meeting, *Forest Health Watch and the WSU forestry community* (Virtual Presentation).

2020

Washington State University, 4-H Eco-Stewards Program meeting, *Forest Health Watch - community science in the Pacific Northwest* (Virtual Presentation).

2020

University of Pretoria, Forestry and Agricultural Biotechnology Institute, *A quest for plant destroyers in the Cape Floristic Region: a story of the growth of an indigenous-plant pathologist* (PhD Prestige Seminar).

2018

Stellenbosch University, Dept. of Conservation Ecology and Entomology, Roets, Oberlander, and Dryer Join Lab Meeting, *The Cape Town Hypothesis Test.*

2017

University of Pretoria, Forestry and Agricultural Biotechnology Institute, Thursday Morning Seminar Series, *The trade of live plants in Africa: a risk to tree health?*

2016

University of Pretoria, Forestry and Agricultural Biotechnology Institute, Research Discussion Seminar, *The role of scientists in society: developing a responsible protocol in case we discover an internationally regulated plant pathogen.*

2016

University of Pretoria, Dept. of Plant and Soil Science, Fall Seminar Series, *Citizen science tools available for phytogeographical research in South Africa.*

2016

Stellenbosch University, Dept. of Plant Pathology, Friday Forum Seminar Series, *Cape Citizen Science: community engagement to survey Phytophthora species in the fynbos.*

2016

University of Pretoria, Forestry and Agricultural Biotechnology Institute, Thursday Morning Seminar Series, *Methods of sampling Phytophthora with citizen science.*

2015

Oregon State University, Dept. of Botany and Plant Pathology, Spring Seminar Series, *Crowdfunding and citizen science applications in biology*.

2013

Oregon State University, Dept. of Wood Science & Engineering, Spring Seminar Series, *Using wood science to mitigate the impact of Sudden Oak Death*.

Invited Talks

2021

Washington Native Plant Society, Koma Kushan Chapter, *Community scientists needed for Western redcedar dieback in Pacific Northwest*. (Virtual Presentation).

2021

Issaquah Alps Trail Club, *Community scientists needed for Western redcedar dieback in Pacific Northwest*. (Virtual Presentation).

2021

Idaho Native Plant Society, Kinnikinnick Chapter, *Community scientists needed for Western redcedar dieback in Inland Northwest*. (Virtual Presentation).

2021

Idaho Native Plant Society, White Pine Chapter, *Community scientists needed for Western redcedar dieback in Inland Northwest*. (Virtual Presentation).

2021

Montana Native Plant Society, Flathead and Kelsey chapters *Community scientists needed for research about western redcedar dieback* (Virtual Presentation).

2021

Washington Department of Natural Resources, Presentation to State Forester & Forest Health Division Leads, *Forest Health Watch: community engagement for healthy forests* (Virtual Presentation).

2021

Western International Forest Disease Workgroup, Climate Change Committee Update, *Western redcedar dieback update* (Virtual Presentation).

2021

Green River Coalition, Guest Seminar for Interns, *Forest Health Watch: community science to accelerate research* (Virtual Presentation).

2021

Seattle Climate Change Meetup Group, *Community scientists needed in forest health and climate change research* (Virtual Presentation).

2021

PlantAmnesty Member Event, *Community scientists needed to explore and understand the dieback of western redcedar* (Virtual Presentation).

2021

Bonneville Environmental Foundation, Treeline Practitioners Meeting, *Tools for community engagement: creating custom projects on iNaturalist* (Virtual Presentation).

2021

City of Tacoma, Nature and Environment Advisory Council Meeting, *Forest Health Watch: community engagement for healthy parks* (Virtual Presentation).

2021

Arbutus ARME, Spring member meeting, *TreeSnap and iNaturalist observation update*, (Virtual Presentation).

2021

Forest Resource Management Faculty Meeting, Green River College, *Forest Health Watch: community engagement for healthy forests* (Virtual Presentation).

2020

University of Washington, Urban Ecology Research Lab Meeting, *Exploring the dieback of western redcedar as a metaphor for the inequities in urban communities* (Virtual Presentation).

2020

Climate Resiliency Fund, Bonneville Environmental Foundation, Riparian Climate Corridors Project Extension Group Meeting, *Forest Health Watch - community science* (Virtual Presentation).

2020

King County, King County Conservation District Forestry Team Meeting, *Western redcedar dieback in King County* (Virtual Presentation).

2020

Washington State Department of Agriculture, Plant Protection Group Meeting, *Forest Health Watch - upcoming community science program* (Virtual Presentation).

2020

South King County Culture (SoCoCulture), Member Update, *Forest Health Watch - partnering with SoCoCulture to promote the Engaging Trees platform* (Virtual Presentation).

2020

Forest Adaptation Network, Bi-Annual Meeting, *Forest Health Watch - engaging communities in forest adaptation science* (Virtual Presentation).

2020

Seattle Urban Forestry Interdepartmental Team, Quarterly Meeting, *Forest Health Watch - upcoming community science program* (Virtual Presentation).

2020

Seattle Urban Forestry Commission, Monthly Meeting, *Forest Health Watch - community science in the Pacific Northwest* (Virtual Presentation).

2020

City of Seattle, Urban Forest Core Team, monthly Meeting, *Forest Health Watch - an upcoming community science program in the Pacific Northwest* (Virtual Presentation).

2020

Puyallup Watershed Initiative, Forest Community of Interest, Bimonthly Meeting, *Forest Health Defenders - Pacific Northwest citizen science - brainstorm and discussion* (Virtual Presentation).

2020

Forestry and Natural Resources Extension Coffee Hour, Oregon State University, *Forest Health Defenders - Pacific Northwest citizen science - brainstorm and discussion* (Virtual Presentation).

2020

EcoPhysiology Working Group, Reed College, Portland State University & WSU Vancouver, *Forest Health Defenders - Pacific Northwest citizen science - brainstorm and discussion* (Virtual Presentation).

2020

Urban Ecology Research Laboratory, University of Washington, *Seattle Urban Forest Atlas project proposal*.

2019

National Research Foundation, South African Agency for Science and Technology Advancement, FAMELAB Alumni Network Event, *Public engagement with citizen science in South Africa*.

2018

Transatlantic Science Education Cooperative, Annual Workshop, Stellenbosch University, *Cape Citizen Science: methods of youth engagement*.

2018

Imbovane Outreach Workshop, Centre for Excellence in Invasion Biology, Stellenbosch University, *Microscopic organisms: why and how we study them*.

2018

Plant Conservation Unit, University of Cape Town, *Benefits and challenges of citizen science: the experiences of @CapeCitSci in South Africa*.

2018

Farm to Table Working Group, North Carolina State University, *Citizen science in South Africa: applications for agriculture* (teleconference).

2018

University of Pretoria, Forestry and Agricultural Biotechnology Institute, 20th Anniversary Meeting, *Inspiring a new generation of plant health specialists in Africa*.

2018

University of Washington, School of the Environment and Forests, Harvey Lab Meeting, *Citizen science and plant disease in South Africa*.

2016

Stellenbosch University, Dept. of Conservation Ecology and Entomology, Regional Universities Forum for Capacity Building in Agriculture (RuForum) visit, *Conserving Biodiversity with citizen science*.

2016

Agricultural Research Council, Stellenbosch University, Dept. of Plant Pathology, Pre-symposium Fungal Pathogens Discussion Group, ARC-PPRI 24th Interdisciplinary Symposium on Soil-borne Plant Diseases, *Public engagement to survey plant destroyers in South Africa*.

2016

Stellenbosch University, Centre of Excellence in Invasion Biology, Dept. of Zoology, Invasives in the Cape Discussion Group, *Is the greatest threat to South Africa's natural resources something we cannot see?*

2015

Oregon State University, Dept. of Integrative Biology, Undergraduate Club, Spring Term Meeting, *Deciding how to impact the world: Issues, options, and tools*.

2015

Oregon State University, Science Communication Brown Bag Lunch Seminar Series, *Crowdfunding: creating new possibilities for science*.

2014

Oregon State University, Science Communication Brown Bag Lunch Seminar Series, *The Process of Podcasting: Using College Radio to Communicate Science*.

2014

Oregon State University, College of Forestry, Researcher Teacher Partnerships: Making global climate change relevant in the classroom, Spring Workshop, *Invasive Species: Service Learning Opportunities for K-12*.

2014

Oregon State University, College of Forestry, Researcher Teacher Partnerships: Making global climate change relevant in the classroom, Spring Workshop, *Inspiring Science as Graduate Students*.

Additional Public Talks

2021

Tacoma Tree Foundation, Growing Skills Webinar Series, *Tracking sooty bark disease in the Pacific Northwest* (Virtual Presentation).

2021

Comox Valley Nature (Vancouver Island, BC), *Western Redcedar Dieback and Community Science in the Pacific Northwest* (Virtual Presentation).

2020

Tacoma Tree Foundation, Growing Skills Webinar Series, *Forest Health Watch - recognizing signs and symptoms of tree pests and diseases in our neighborhoods* (Webinar Presentation).

2020

Washington State University, *Forest Health Watch - Collaborator Update Meetings (3 events)* (Virtual Presentation).

2018

South African Citizen Science Project Fair, International Citizen Science Day, Old Mutual Conference Center, Kirstenbosch National Botanical Garden, *Cape Citizen Science*.

2018

Friends of Brackenfell Nature Reserve, Brackenfell Nature Reserve, monthly meeting, *How citizens can protect the Cape Floral Kingdom from new plant diseases*.

2018

Wildlife and Environment Society of South Africa, Tygerberg Nature Reserve, Big Friends Group Event, *How citizens can protect the Cape Floral Kingdom from new plant diseases*.

2017

South African National Biodiversity Institute, Kirstenbosch National Botanical Garden, Room To Grow Wednesday Talks Series, *Cape Citizen Science: plant disease in the fynbos*.

Competitive Presentations

Travel Awards

2020

Washington State University, Innovation and Research Engagement Office, Research Week, *Washington State Forest Health and Climate Change Research Cooperative*.

Science Communication

2013

Scholars Insights, Oregon State University, *It only takes one spore to start an epidemic*.

Public Science Engagement

Youth Engagement Activities

2022

Hilltop Heritage Middle School, Thrive Program, *Educational walk and tree identification* (1 event), Point Defiance Park, Tacoma, Washington.

2021

Mount Tahoma High School, Botany class *Forest Walk at Lincoln Tree Farm*, Spanaway, Washington.

2021

Muckleshoot Tribal College - Early College Program, *Educational Walks in Tomanamus Forest* (2 events), Tomanamus Forest, Green Water, Washington.

2021

Muckleshoot Tribal College - Early College Program, *Research Tour*, Washington State University, Puyallup Research and Extension Center.

2018

Kluitjieskraal and Waterval Junior Rangers, *Part 2: Collecting bark and ambrosia beetles*, Cape Nature, Wolseley.

2018

Littlewood Primary, *Part 2: Collecting bark and ambrosia beetles*, Cape Nature, Wolseley.

2018

Littlewood Primary, *Part 1: Collecting bark and ambrosia beetles*, Cape Nature, Wolseley.

2018

Kluitjieskraal and Waterval Junior Rangers, *Part 1: Collecting bark and ambrosia beetles*, Cape Nature, Wolseley.

2017

SANParks Junior Rangers, *Hike to De Mond*, Cape Point, Table Mountain National Park.

2017

Noordhoek Primary, *Cape Citizen Science Presents: Cape Nature Junior Ranger Adventures in Rochepan Nature Reserve*, Cape Nature, Veldrift.

2017

Littlewood Primary, *Cape Citizen Science Presents: Cape Nature Junior Ranger Adventures in Drift Sand Nature Reserve*, Cape Nature, Blue Downs.

2017

Se7en +1 homeschool group, *Cape Citizen Science Presents: Lab Visit with Se7en +1*, Stellenbosch University, Stellenbosch.

2017

Fish Hoek Girl Guides, *Adventures with First Fish Hoek Girl Guides*, Fish Hoek.

2017

Se7en +1 homeschool group, *Mountain hike with Seven+1*, Fish Hoek.

2017

Mamre Girls Brigade, *Cape Citizen Science Presents: Adventures in Silwer Stream*. Cape Nature, Mamre.

2017

South African Education and Environment Project, *SAEP and Cape Citizen Science Present: Adventures in Helderberg Nature Reserve*, three activities (July 29, August 5, and October 7), Cape Town Municipality, Somerset West,

2017

South African Education and Environment Project, *SAEP and Cape Citizen Science Present: Adventures in Cape Point*, three activities (June 10, 17 and 24), Cape Point, Table Mountain National Park.

2017

Vision Afrika, *Pathogen hunting in Jonkershoek Nature Reserve on Earth Day*, Jonkershoek Nature Reserve, Stellenbosch.

2016

Helderberg Eco-Rangers, *Sampling streams for Phytophthora and monitoring stream health with miniSASS*, Edward Wood Environmental Education Center, Somerset West.

2016

Helderberg Eco-Rangers, *Training to be citizen scientists: reporting dying plants with IspotNature*, Helderberg Eco-Rangers, Edward Wood Environmental Education Center, Somerset West.

2016

Four Cape Town Scout Troops, *Cape Citizen Science: plant disease on Hoys Koppie*, Hermanus, Scout excursion.

2016

Helderberg Eco-Rangers, *Disease in our fynbos*, Edward Wood Environmental Education Center, Somerset West.

2015

Se7en +1 homeschool group, *Sampling in Kirstenbosch National Botanical Garden*, South African National Biodiversity Institute, Cape Town.

2014

Wood Magic Volunteer, *Forest products in everyday materials*, World Forestry Institute, Portland, Oregon.

2013

Wood Magic Volunteer, *Forest products in everyday materials*, World Forestry Institute, Portland, Oregon.

Promotional Table Events

2018

Science Forum South African, Council for Scientific and Industrial Research, Pretoria.

2018

Biodiversity Careers Day, Kirstenbosch Research Centre, Cape Town.

2017

Science Forum South African, Council for Scientific and Industrial Research, Pretoria.

2017

National Science Week __, __ African Institute of Mathematical Sciences, Khayelitsha.

2017

Open Day, Faculty of AgriSciences, Stellenbosch University.

2016

Hermanus Botanical Society Flower Festival, Hermanus.

2016

Funky Fynbos Festival, Gaansbai.

2015

Arbor Week Expo, Stellenbosch.

2013

Spring Discovery Days, Oregon State University.

2013

Fall Discovery Days, Oregon State University.

Stakeholder Engagement

Presentations

2022

Selkirk Alliance for Science, *Community Science for western redcedar research* (Webinar Presentation).

2022

Washington State Department of Transportation, Revegetation Climate Change Discussions *Forest Health Watch and western redcedar dieback research* (Webinar Presentation).

2022

Washington State University, Washington Forest Owners' Winter School, *Sooty Bark Disease in the PNW - what to look for in your maple trees* (Webinar Presentation).

2022

City of Seattle, *Sooty Bark Disease in the Pacific Northwest*, Integrated Pest Management and Recertification Webinar (Virtual Presentation).

2022

South Sound Educators, Science Leadership Collaborative, *Linking ecology education and research with iNaturalist* (Virtual Presentation).

2021-2022

Washington State University, *Forest Health Watch - Research Updates*, Montly (June-Dec) (Virtual Presentations).

2021

Montana Native Plant Society, Flathead and Kelsey chapters *Community scientists needed for research about western redcedar dieback* (Virtual Presentation).

2021

USFS Region 6 Advanced Silviculture Training *Community science to accelerate research and enhance biosecurity in the Pacific Northwest* (Virtual Presentation).

2021

WSU Extension Lewis County Invasive Species Workshop *Keeping trees healthy in Washington - WSU research and extension services* (Virtual Presentation).

2021

Washington State University, Master Gardener Advanced Diagnostic Training Workshop *Forest Health Watch: community science to accelerate research* (Virtual Presentation).

2021

Shoreline Green Cities Partnership Forest Stewards Training, *Community scientists needed for redcedar dieback research* (Virtual Presentation).

2021

Redmond Green Cities Partnership Forest Stewards Training, *Community scientists needed for redcedar dieback research* (Virtual Presentation).

2021

Issaquah Green Cities Partnership Forest Stewards Training, *Community scientists needed for redcedar dieback research* (Virtual Presentation).

2021

Washington State University Extension SW Washington Forestry Tech Series, *Tracking forest health issues with iNaturalist* (Virtual Presentation).

2021

Seattle Green Cities Partnership Forest Stewards Training, *Western redcedar dieback in Seattle* (Virtual Presentation).

2021

Thurston County Master Gardeners, *Forest health concerns and community science in the Pacific Northwest* (Virtual Presentation).

2021

Portland Metro, monthly conservation teams meeting, *Forest Health Watch: community science to accelerate research* (Virtual Presentation).

2021

WSU Grays Harbor & Pacific County Master Gardeners, *Forest Health Watch: community science to accelerate research* (Virtual Presentation).

2021

Bainbridge Island Watershed Council, *Forest Health Watch: community engagement for healthy forests* (Virtual Presentation).

2021

Washington State University, *Pacific Northwest Forest Biosurveillance Training (June)* (Virtual Presentation).

2021

Washington State University, *March Forest Health Watch - Collaborator Update Meetings (4 events)* (Virtual Presentation).

2021

Washington State University, Washington Forest Owners' Winter School, *Western redcedar dieback: what's happening and how you can help* (Webinar Presentation).

2021

Duwamish River Re-vegetation Partners Meeting, King County, *Insights for healthy restoration practices* (Virtual Presentation).

2020

Green Cities Partnership Network Meeting, *Forest Health Watch - keeping forests healthy* (Virtual Presentation).

2020

Washington State University, *November Forest Health Watch - Collaborator Update Meetings (3 events)* (Virtual Presentation).

2017

South African National Biodiversity Institute, *Introduction to Phytophthora*, Plant Pest Monitoring and Prevention Workshop, International Plant Sentinel Network, Kirstenbosch National Botanical Garden, November 6-7, 2017.

2017

South Africa National Parks, *Forest Phytophthoras: invisible threats or contributors to plant community diversity?* Garden Route National Park SANParks Office, Knysna, South Africa.

2017

Cape Town Municipality, *Plant disease in the Cape Floristic Region*, Branch Meeting, Cape Town.

2017

Cape Town Municipality, Cape Nature, World Wildlife Foundation, *Plant disease in the Cape Floristic Region*, BioNet Steering Committee Meeting, Cape Town.

2016

South Africa National Parks, *Cape Citizen Science: Sampling Phytophthora with Citizen Science*, Research Committee Feedback Discussion, Cape Research Centre, Tokai, Cape Town.

2016

Cape Nature, *Involving Cape Nature to study dying plants in the fynbos*, Eastern Division Quarterly Ecological Meeting, George.

2016

Cape Nature, *Engaging citizens in research through workshops and targeted sampling*, Central Division Quarterly Ecological Meeting, Fernkloof Nature Reserve, Hermanus.

2016

Cape Nature, *Community driven research about plant disease in the fynbos*, Western Division Quarterly Ecological Meeting, Porterville.

Plant Disease Workshops and Research Activities

2017

South African National Parks, *Hunting for Phytophthora in West Coast National Park*, SANParks office, Langebaan, West Coast.

2017

Stellenbosch Municipality, *Surveying Phytophthora in Jan Marais Nature Reserve*, Stellenbosch.

2016

Cape Nature, *Surveying Phytophthora in Marloth Nature Reserve*, Marloth Nature Reserve, Swellendam.

2016

South African National Biodiversity Institute, *Recognizing plant disease, sampling soil, and testing hypotheses*, Harold Porter Botanical Garden, Bettys Bay.

2016

Stellenbosch University, *Recognizing plant disease and sampling soil for Phytophthora spp.*, Stellenbosch University Botanical Garden, Stellenbosch.

2016

South African National Biodiversity Institute, *Hypothesis testing in Kirstenbosch National Botanical Garden with Citizen Science*, Kirstenbosch National Botanical Garden, Kirstenbosch Garden Office, Cape Town.

2016

South African Botanical Society, *Surveying Phytophthora species in Fernkloof Nature Reserve*, Fernkloof Nature Reserve Hall, Hermanus.

2016

South Africa National Parks, *Surveying Phytophthora species in Agulhas National Park*, SANParks Office, Agulhas.

2016

South African National Biodiversity Institute, *Phytophthora soil baiting in the Protea Garden*, Kirstenbosch National Botanical Garden, Kirstenbosch Garden Office, Cape Town.

2016

South Africa National Parks, *Sampling dying plants and the Breede river in Bontebok National Park*, Bontebok National park, Swellendam.

2016

South African National Biodiversity Institute, *Recognizing plant disease: why and how*, Kirstenbosch National Botanical Garden, Kirstenbosch Garden Office, Cape Town.

2016

South Africa National Biodiversity Institute, *Introduction to Phytophthora*: plant destroyers in South Africa, Kirstenbosch National Botanical Garden, Kirstenbosch Garden Office, Cape Town.

Mentorship and Supervision

2022

Nicole Vonberckefeldt

Capstone Project (Senior), Natural Resources, Green River College

2022

Jennifer Olson

Capstone Project (Senior), Natural Resources, Green River College

2022

Lyndsay Felthoven

Capstone Project (Senior), Environmental Studies, University of Washington

2022

Angela Mabel Gaither

Capstone Project (Senior), Environmental Studies, University of Washington

2021

Brieanne Laia & Hailey Dilow

Marine Chemistry Science Project (Grade 12), Bellarmine Preparatory Highschool, Tacoma, Washington.

2018

Eric Norton

BSc Honors (4th year), Dept. of Conservation Ecology and Entomology, Stellenbosch University.

2018

Ashleigh Basel

BSc Honors (4th year), Dept. of Conservation Ecology and Entomology, Stellenbosch University.

2017

Grég Thiry

MSc Environmental Education, Université de Montpellier, France. South African Environmental Education Project Intern.

2017

Nicolas Louw

BSc Honors (4th year), Dept. of Conservation Ecology and Entomology, Stellenbosch University.

2017

Adam Wentzel

Work Integrated Learning Student, Cape Nature, Jonkershoek Nature Reserve, Dept. of Biodiversity and Conservation, Cape Peninsula University of Technology.

2017

Tara Nair Van Ryneveld

BSc Honors (4th year), Plant Conservation Unit, Dept. of Biological Sciences, University of Cape Town.

2017

Liza-Marie Dippenaar

BSc Plant Pathology 4th year project, Dept. of Plant Pathology, Stellenbosch University.

2017

James Coldrey

BSc Plant Pathology 4th year project, Dept. of Plant Pathology, Stellenbosch University.

2016

Jeff Groenewald

BSc (3rd year), Biodiversity and Ecology, Dept. of Botany and Zoology, Stellenbosch University.

2014

Emma Buczkowski

BSc Zoology, Dept. of Botany & Plant Pathology Undergraduate Mentorship Program (BUDS) Oregon State University.

2014

Joey DeSheilds

BSc Molecular and Cell Biology, Dept. of Botany & Plant Pathology Mentorship Program (BUDS), Oregon State University.

2014

Kayla Nass

BSc Wood Science and Engineering, Hourly Morrell Lab Student Employee, Oregon State University.

2014

Al Pancoast

BSc Forest Engineering, Forestry Graduate Undergraduate Mentorship Program (GUMP), Oregon State University.

2014

Alex Abair

BSc Botany & Plant Pathology, Hourly Hansen Lab Student Employee, Oregon State University.

2013

Josh Petitmermet

Hourly Hansen Lab Student Employee, Oregon State University.

2013

Jake Kotche

Hourly Hansen Lab Student Employee, Oregon State University.

2013

Patrick Duyck

BSc Forest Engineering, Personal Initiative.

Mentorship Outcomes

- Basel A, **Hulbert JM**, Midgley G, Jacobs S, Dreyer L, Roets F. 2018. Disease or drought? A physiological analysis on the effects of *Phytophthora* infection and water stress on *Leucadendron argenteum*, Fynbos Forum, Worcester, South Africa. Oral Presentation.
- Groenewald J, Roets F, **Hulbert JM**. 2017. *Phytophthora cinnamomi*: a driver behind endangered flora in the CFR?, South African Association of Botanists, Annual Meeting, Cape Town, South Africa. Poster Presentation.
- Louw NL, Roets F, **Hulbert JM**. 2017. The diminishing silver lining: re-evaluating the microscopic threats to South Africa's silver tree, Fynbos Forum, Swellendam, South Africa. Oral Presentation.

Professional Development

2021

Integrating Climate into Hazard Mitigation Plans (Western Region), Tribes & Climate Change Program, Institute for Tribal Environmental Professionals, Northern Arizona University.

2021

CC101: Introduction to Climate Change Adaptation Planning for Tribes, Tribes & Climate Change Program, Institute for Tribal Environmental Professionals, Northern Arizona University.

2021

Software/Data Carpentry workshop at the UW eScience Institute, University of Washington.

2021

Partnership Development Training, USDA Forest Service

2020

PI Roles and Responsibilities Training, Washington State University.

2020

Working with Industry 101, Washington State University.

2020

Study Circle on Racism and Equity, Washington State University.

2018

Citizen science and youth education in South Africa, Transatlantic Science Education Cooperative, Stellenbosch University.

2017

The People Side of Ecology, Social Science Methods Workshop, Dept. of Conservation Ecology and Entomology, Stellenbosch University.

2016

Introduction to Phylogenetics Workshop, Forestry and Agricultural Biotechnology Institute, University of Pretoria.

2016

Microsatellite Workshop, Forestry and Agricultural Biotechnology Institute, University of Pretoria.

Digital Media Production

Video Production

2021

Western Redcedar Dieback Research and Community Science at Washington State University. YouTube.

2021

Western Redcedar Dieback Map - Adding Observations to iNaturalist. YouTube.

2020

Forest Health Watch - Puyallup High School Introduction. YouTube.

2017

A year of empowering young minds. YouTube.

2016

Engage Kayamandi youth in Cape Citizen Science with Vision Afrika. Experiment.com.

2016

Release your inner scientist (website header). YouTube.

2015

Discovering plant destroyers in South Africa with citizen science. Experiment.com.

Podcast Production

2017

Dylan, Cape Citizen Science.

2015

Behind the Research, Oregon State University, College of Forestry.

2012-2014

Inspiration Dissemination, Oregon State University, 88.7fm KBVR.

Web Development

2020-

Ornamental Plant Pathology, Wordpress (<https://ppo.puyallup.wsu.edu/>).

2020-

PNW Citizen Science, Github Pages (<https://pnwcitsci.org/>).

2019-

Forest Health Citizen Science Community, Github Pages (<https://fhcs.page/>).

2018-

R Workshop Series, html & R Markdown (<https://jmhulbert.github.io/r/>).

2015-

Cape Citizen Science, Wordpress (<https://citsci.co.za>).

2015-2016

Personal website, Drupal (<https://jmhulbert.me>).

2013-2014

Inspiration Dissemination, Drupal (oregonstate.edu/inspire).

2013-2014

Botany and Plant Pathology Graduate Student Association, Drupal (<https://gsa.bpp.oregonstate.edu>).

2013-2014

Western Forestry Graduate Research Symposium, Drupal (gradsymp.forestry.oregonstate.edu).

2013-2014

Forest Graduate Undergraduate Mentorship Program, Drupal (gump.forestry.oregonstate.edu).

Selected Popular Writing

- Hulbert JM. Community scientists needed for western redcedar dieback research. Kelseya, Montana Native Plant Society, Volume 34, Issue 4, Summer 2021.
- Hulbert JM. Forest Health Watch – Opportunities to contribute to research and strengthen our biosecurity. PNW ISA Trees, Spring Issue 2021.
- Hulbert JM. Pacific Northwest Forest Bio-Surveillance Training Available, DNR & WSU Forest Stewardship Notes.
- Hulbert JM 2021. Community science and the dieback of western redcedar, treeline, Bonneville Environmental Foundation, Watersheds Program.
- Hulbert JM 2020. Forest Health Watch - a new community science initiative in the Northwest, Forest Stewardship Notes, Department of Natural Resources.
- Hulbert JM 2020. You can contribute to western redcedar dieback research, Small Forest Landowner News.
- Hulbert JM, Roets F. 2017. Citizen science: how ordinary people can guard Cape Town's biodiversity, The Conversation-Africa.
- Hulbert JM. 2017. Pathogen Hunters: citizen scientists track plant diseases to save species, The Conversation-Africa.
- Hulbert JM. 2017. Two species of plant killing genus *Phytophthora* found in a Western Cape garden, Veld & Flora Vol 103(1).
- Hulbert JM. 2017. Citizen Science, Supernova: the magazine for curious kids Vol 6.1.
- Hulbert JM. 2016. Citizen driven science: the citizen science movement in South Africa, Quest Magazine, Vol 12 (2).
- Hulbert JM. 2016. Plant Destroyers, Supernova: the magazine for curious kids, Vol 5.6.
- Hulbert JM. 2016. Super Fungi, Supernova: the magazine for curious kids, Vol 5.5.
- Hulbert JM. 2016. Citizen science: research experience for all, Veld & Flora, Vol 102(2).
- Hulbert JM. 2016. Recycled pathogens: avoiding accidental infection through awareness, Agrikultuur Magazine, Vol 34.
- Hulbert JM. 2015. Microbes, Supernova: the magazine for curious kids, Vol 5.3.
- Hulbert JM. 2015. Citizen engagement in research to protect fynbos—and forests, SA Forestry.
- Hulbert JM, Navarro S. 2011. Effective collaboration slows the spread of Sudden Oak Death in Oregon, Western Forester, Vol 56(3).

Selected Media Coverage

- Articles
 - Wheeler H. 2021. Takeaways from Forest Health Watch, Issaquah Alps Trail Club Newsletter.
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Science Community Service

2022

Guest Editor, Special Issue, Frontiers in Ecology and Evolution, *The Role of Community and Industry Surveillance in Managing Invasive Species: a Review of Current Knowledge*

2021

Promotion Review, External Evaluation, Associate Professor of Practice

2021

Workshop Participant, *Citizen science and its future role for monitoring nature and the environment* (Joint University Initiative, United Kingdom)

2021

Adhoc Reviewer, Oregon State University Extension (1 Extension Publication)

2021

Adhoc Reviewer, Journal of Plant Pathology (1 Manuscript)

2021

Adhoc Reviewer, African Journal of Marine Science (1 Manuscript)

2020

Adhoc Reviewer, Urban Forests Urban Greening (1 Manuscript)

2020

Adhoc Reviewer, Journal of Science Communication (1 Manuscript)

2020

Adhoc Reviewer, Journal of Plant Pathology (1 Manuscript)

2020

Adhoc Reviewer, Scientific Reports (1 Manuscript)

2019

Adhoc Reviewer, African Journal of Marine Biology (1 Manuscript)

2018

Adhoc Reviewer, Biological Invasions (1 Manuscript)

2016

Adhoc Reviewer, IMAfungus (1 Manuscript)

Research Positions

2020-2022

Postdoctoral Research Associate, Washington State University, Dept. of Plant Pathology, Puyallup Research and Extension Center. Primary Supervisor: Gary Chastagner.

2015-2019

Graduate Student, University of Pretoria, Dept. of Plant and Soil Sciences, Pretoria, Gauteng, South Africa. Primary Supervisor: Mike Wingfield. Co-supervisors: Treena Burgess, Francois Roets.

2016-2018

Affiliate Research Student, Stellenbosch University, Dept. of Conservation Ecology and Entomology, Stellenbosch, Western Cape Province, South Africa. Supervisor: Francois Roets.

2012-2014

Graduate Research Assistant, Oregon State University, Dept. of Wood Science and Engineering, Corvallis, Oregon, USA. Supervisors: Everett Hansen, Jeff Morrell.

2011-2012

Research Technician, Oregon State University, Dept. of Botany and Plant Pathology, Corvallis, Oregon, USA.
Supervisors: Everett Hansen, Paul Resser, Wendy Sutton.

2010

Field Technician, Oregon State University, Dept. of Forest Engineering, Resources and Management, Corvallis, Oregon, USA. Supervisors: Dave Shaw, Travis Woolley.

2009

Forest Service STEP Field Technician, Joint project with U.C. Davis and Forest Service Sierra Nevada Research Center, Davis, California, USA. Supervisors: Seth Bigelow, Michael Papaik, Malcolm North.

2008

Field Technician, Joint project with University of Idaho and Forest Service Rocky Mountain Research Station, Moscow, Idaho, USA. Supervisors: Andrew Hudak, Penny Morgan.

2008

Volunteer Lab Technician, Forest Pathology Lab, Forest Service Rocky Mountain Research Station, Moscow, Idaho, USA. Supervisors: Ned Klopfenstein, Mee-Sook Kim.

2007-2010

Research Technician, Washington State University, Dept. of Plant Pathology, Pullman, Washington, USA.
Supervisor: Patricia Okubara.

2004

Research Technician, Kansas State University, Dept. of Plant Pathology, Manhattan, Kansas, USA.

References

Primary Postdoc Mentor

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Puyallup Research and Extension Director

Todd Murray Director, WSU Research and Extension Center in Puyallup Washington State University
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PhD Co-Supervisor

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t.burgess@murdoch.edu.au

PhD Co-Supervisor

Francois Roets Assistant Professor, Dept. of Conservation Ecology and Entomology Stellenbosch University, Stellenbosch, South Africa 7600 fr@sun.ac.za

MSc Supervisor

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