

# Julia R. Chandler, PhD

Cochranton, PA 16314 • 814.795.4454 (c) • [juliarchandler@gmail.com](mailto:juliarchandler@gmail.com)

## RESEARCH INTERESTS

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Natural resource adaptive and data-driven management & conservation. Statistical methods in biology & ecology. Forest fire ecology, forest soils, invasive species & riparian habitat restoration. Collaboration and transboundary, multi-stakeholder approaches for highly migratory species.

## EDUCATION

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- PhD                    09.2014 - Forest Sciences, University of British Columbia, Vancouver, BC.  
Workshop - R Programming / FRST 531 - Applied Multivariate Statistics / FRST 505 - Dir. Studies: SEM
- MS                    06.2007 - Geography, Simon Fraser University, Burnaby, BC.  
Geography 691 - Geostatistical Analysis / Geog 617 - Soil Science / Geography 606 - Quantitative Methods
- BA                    06.2004 - Geography, Simon Fraser University, Burnaby, BC.  
Env. Science 491 - Advanced Field Studies / Geography 317 - Soil Science / Geography 652 - Advanced GIS
- Certificate        10.2003 - Spatial Information Systems (GIS), Simon Fraser University, Burnaby, BC.  
Geography 651 - Spatial Modeling / Geography 352 / 353 - Spatial Analysis II / Remote Sensing
- Associate Degree    06.2002 - Environmental Studies, Douglas College, New Westminster, BC.  
Biology 322 - Ecology / Geology 200 - Environmental-Natural Hazards / Criminology 180 - Env. Law
- Advanced Certificate    01.2002 - Habitat Restoration, Douglas College, New Westminster, BC.  
Geography 230 - Biogeography / Env. Science 223 - Resource Computing / Biology 110 & 210

## RECENT EXPERIENCE

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- 06.2000-present - Consulting/Contract Ecologist - Various levels of Canadian government and private institutions. Most recent work includes the *Burning Questions* project with compilation, analysis and publication of fire effects meta-analysis and extension of results. Project website: <http://www.db2020.net/>. Other projects include: field sampling for stream classification of anadromous fish habitat and developing a crown land inventory (GIS) for Treaty negotiations for local government; mapping vineyard terroir, agricultural practices, and conducting climate change experiments with Agriculture Canada; and statistical analysis of bio-control agents with BC provincial government.
- 01.2020-present - Adjunct Faculty - Geography, Department of Humanities and Social Sciences, Point Park University, Pittsburgh, PA. Teaching online and on-ground 1-3 courses per term.
- 08.2017-12.2019 - Adjunct Faculty - Geography, Geology and the Environment, Slippery Rock University, Slippery Rock, PA. Developed curriculum, syllabi and assessment items, assessment of student learning and assisted students. Teaching an average of 200-400 students and 2-4 courses per term. Created ongoing sustainable campus initiatives including the student store (see <http://www.operatedwithlove.com/>) and registration as a Climate Reality Campus Corps.

## PUBLICATIONS

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### PAPERS AND THESES

- Hamilton, E, **Chandler, J**, Newman, R and Haeussler, S. 2018. Burning Questions: Effects of fire on components of BC ecosystems. Final report to FESBC. Available from: [http://www.db2020.net/uploads/6/4/9/8/64987147/burning\\_questions\\_final\\_report\\_draft\\_10\\_12.pdf](http://www.db2020.net/uploads/6/4/9/8/64987147/burning_questions_final_report_draft_10_12.pdf)
- Chandler, JR**, Haeussler, S, Hamilton, EH, Feller, M, Bradfield, G and Simard, SW. Twenty years of ecosystem response after clearcutting and slashburning in conifer forests of central British Columbia, Canada. PLoS One. 2017 Feb. 24;12(2):e0172667. Available from: <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0172667>
- Chandler, J**. 2014. Vascular plant response to slashburning and clearcutting in central British Columbia: a 20 year study of plant functional type resilience. University of British Columbia, Vancouver, BC. 112 p. Supervisor: Dr. Suzanne Simard. Available from: <https://open.library.ubc.ca/cIRcle/collections/ubctheses/24/items/1.0167539>
- Chandler, JR**, Schmidt, MG and Dragicevic, S. Spatial patterns of forest floor properties and litterfall amounts associated with bigleaf maple in conifer forest of southwestern British Columbia. Can. J. Soil Sc. 2008 May 2;88(3):295-313. Available from: <http://www.nrcresearchpress.com/doi/pdf/10.4141/CJSS07040>
- Chandler, J**. 2007. Influence of bigleaf maple (*Acer macrophyllum* Pursh.) on soil properties in a conifer forest of southwest British Columbia. Simon Fraser University, Burnaby, BC. 115 p. Supervisor: Dr. M. G. Schmidt. Available from: <http://summit.sfu.ca/system/files/iritems1/7507/etd2718.pdf>

### SPEAKING ENGAGEMENTS

- Chandler, J**, Hamilton, E, Haeussler, S, and Newman, R. 2019. Burning Questions. Wildfire Canada 2019. November 19, 2019. Ottawa, Ontario, Canada.
- Chandler, J**, Hamilton, E, Haeussler, S, and Newman, R. 2019. Integrated Fire Management: developing landscape level wildfire resiliency in British Columbia, Canada. Wildfire Canada 2019. November 19, 2019. Ottawa, Ontario, Canada.
- Chandler, J**, Hamilton, E, Haeussler, S, and Newman, R. 2019. Burning Questions: A step on the path to sustainable fire management of our future forests. ESA & USSEE 2019 Joint Meeting, August 15, 2019. Louisville, Kentucky, USA.
- Hamilton, E, **Chandler, J**, Haeussler, S, and Newman, R. 2018. Burning Questions: Response of BC ecosystems to fire. The Society for Ecological Restoration / Society of Wetland Scientists Pacific Northwest Regional Conference, October 16, 2018. Spokane, Washington, USA.
- Chandler, J**. 2017. Reducing ecological complexity: through the looking glass of plant functional types. Botany BC Conference, July 2017. Cathedral Lakes Lodge, BC, Canada.
- Chandler, J**. 2010. Ecosystem recovery after disturbance: a long-term study of resilience after clearcut and slashburn. ConforWest 2010, January 2010. Harrison Hot Springs, BC, Canada.
- Chandler, J**. 2009. Ecosystem recovery after disturbance: thresholds for biodiversity and resiliency indicators. 7th North American Forest Ecology Workshop, Utah State University, June 2009. Logan, Utah, USA.
- Chandler, J**. 2008. Modeling ecological resilience. BC Forest Sciences Program Board, September 18, 2008. University of British Columbia, Vancouver, BC, Canada.

### POSTER PRESENTATIONS

- Hamilton, E, **Chandler, J**, Haeussler, S and Newman, R. 2019. Long-Term Ecological Monitoring: Fire Management for Future Forests. The Southern Interior Silviculture Committee 2019 Winter Workshop. January 21-23 2019. Kelowna, BC, Canada.
- Hamilton, E, Haeussler, S, **Chandler, J** and Newman, R. Burning Questions: Synthesis & extension of existing information on ecosystem responses to fire. Northern Silviculture Winter Conference. February 27-28, 2018. Prince George, BC, Canada.
- Chandler, J**, Haeussler, S, Hamilton, E and Simard, S. 2008. Modeling ecological resilience of BC forest and range ecosystems. University of British Columbia. March 7, 2008. Vancouver, BC, Canada.
- Chandler, J**, Haeussler, S, Hamilton, E and Simard, S. 2007. Modeling ecological resilience of BC forest and range ecosystems. MITACS Showcase, November 27, 2007. Vancouver, BC, Canada.
- Chandler, J**, Schmidt, MG and Dragicevic, S. 2007. Bigleaf maple in BC's coastal Douglas-fir forests: species influence detection. 6th NA Forestry Ecology Workshop, June 18-22, 2007. University of British Columbia, Vancouver, BC, Canada.

### RECENT MEMBERSHIPS, HONORS AND TRAINING

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- Member - Ecological Society of America (2020)
- Faculty Fellow - Living Learning Communities, Slippery Rock University (2019)
- R Workshop: Access and Work with NEON Data, ESA (2019)
- Python for ArcGIS, NWPA GIS Conference (2019)
- Certificate - Distance Education Instructor Program, Slippery Rock University (2019)
- Certificate - NASA: Remote Sensing for Conservation & Biodiversity (2019)
- Certificate - NASA: Remote Sensing for Wildfire Detection & Monitoring (2018)

### AWARDS

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- Forest Enhancement Society of BC Grant. Awarded to E. Hamilton, project lead (2017-2018)
- UBC Graduate Research Assistantship (2007-2010)
- Forest Investment Account - Forest Science Program Award (2007-2010)
- UBC PhD Tuition Award (2007-2010)
- Forest Investment Account - Forest Science Program Graduate Student Pilot Project (2007-2008)
- MITACS Travel Award (2007-2008)
- MITACS Accelerate BC Award (2007)
- Simon Fraser University Graduate Student Fellowship (2006)

### RECENT VOLUNTEER CONTRIBUTIONS

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- Assisted the Slippery Rock Farmers Market create and publish a web site (2019)
- Conducted a bioremediation experiment for brownfield sites with CAMO (2017-2018)