Tyler J. Tran

tylerjtran@gmail.com
+1 (336) 339-1681

Education

Western Washington University
MS, Environmental Science, 2016
Thesis: Cluster analysis as a means of examining topographically-mediated bristlecone pine growth in the American Southwest; Thesis advisor: Dr. Andy Bunn; GPA: 3.96

University of North Carolina at Chapel Hill
BS, Environmental Science, 2013
Physical Geography minor, French minor

Publications

Tran, T J, J M Bruening, A G Bunn, M W Salzer, and S B Weiss. 2017. Cluster analysis and topoclimate modeling to examine bristlecone pine tree-ring growth signals in the Great Basin, USA. *Environmental Research Letters* 12 014007.

Bruening, J M, **T J Tran**, A G Bunn, S B Weiss, and M W Salzer. 2017. Fine-scale modeling of bristlecone pine treeline position in the Great Basin, USA. Submitted to *Environmental Research Letters* 12 014008.

Tran, T J and K J Elliott. 2012. Estimating *Rhododendron maximum* L. (Ericaceae) canopy cover using GPS/GIS technology. *Castanea* 77(4):303-317.

Research Experience

Research Associate, October 2016-present
Center for Biodiversity, Temple University, Philadelphia, PA
Statistical analyses and data cleaning in R and ArcGIS; managing undergraduate researchers; grant writing; preparing manuscripts for journal submission; field work

Research Associate, June-October 2016
Department of Environmental Sciences, Western Washington University, Bellingham, WA
Researched impacts of topography and climate on bristlecone pine growth using multivariate statistics in R and ArcGIS

Research and Teaching Assistant, September 2014-June 2016
Huxley Tree Ring Laboratory, Western Washington University, Bellingham, WA

Field Assistant, May-August 2013
Eissenstat Root Ecology and Plant Ecophysiology Lab, Penn State University, Kangerlussuaq, Greenland
Independently conducted field work for research studying timing of root growth and climate change in the Arctic

Field Assistant, May-August 2012
US Fish and Wildlife Service, Kodiak National Wildlife Refuge, Kodiak Island, AK
Aided in ecological research examining dynamics of sockeye salmon and brown bears; performed fieldwork, data processing, data management

Research Intern, August-December 2011
US Forest Service Southern Research Station, Coweeta Hydrologic Laboratory, Otto, NC
Researched understory cover in forest ecosystems, performed spatial and statistical data analysis, prepared research for journal submission

Field Technician, Summers 2009-2011
Glen Lake Association, Glen Arbor, MI
Mapped algae growth for water quality monitoring, advised residents on lowering nutrient inputs; performed field work and data management

Other Experience

Committee Member, October 2015-March 2016
Presidential Search Advisory Committee, Western Washington University, Bellingham, WA
Served on a 15-person committee of diverse individuals to develop a Presidential leadership profile and screen, interview, and reference Presidential candidates

English Teacher, September 2013-May 2014
Balguerie Public School, French Ministry of Education, Bordeaux, France
Planned and taught English courses to twelve classes of French students

Photo Editor, January 2012-May 2013
BluePrint Magazine, Chapel Hill, NC
Supervised a team of eight photographers; managed photo assignments, logistics with photographic content in magazine

Honors

Huxley College Dean's Fund for Sustainability (WWU, $500), Ross Travel Grant (WWU, $250), Aubrey Lee Brooks Scholarship (UNC, $70,000), Evans Scholarship (UNC, $4,000), Eagle Scout Award

Skills/ Certifications

Proficient with R programming language and environment, ArcGIS, LaTeX, Microsoft Office Suite, experience with Python, ENVI remote sensing software, Department of the Interior motorboat operator certification (MOCC), proficient in French

Conference Presentations

Bunn, A G, **T J Tran**, J M Bruening, M W Salzer, S B Weiss, M K Hughes. 2016. Identifying threshold temperatures associated with bristlecone pine growth signals in the Great Basin, USA. American Geophysical Union Fall Meeting, San Francisco, CA.

Bunn, A G, **T J Tran**, J M Bruening, M W Salzer, S B Weiss, M K Hughes. 2016. Niche spaces in the growth of high elevation bristlecone pine in the Great Basin, USA. AmeriDendro Conference, Mendoza, Argentina.

Tran, T J, J M Bruening, A G Bunn, M W Salzer, S B Weiss. 2015. Cluster analyses of growth patterns in high elevation Great Basin bristlecone pine in the Snake Mountain Range, Nevada, USA. American Geophysical Union Fall Meeting, San Francisco, CA.

Bruening, J M, **T J Tran**, A G Bunn, M W Salzer, S B Weiss. 2015. Modeling potential climatic treeline of Great Basin bristlecone pine in the Snake Mountain Range, Nevada, USA. American Geophysical Union Fall Meeting, San Francisco, CA.

Tran, T J, J M Bruening, A G Bunn, M W Salzer, S B Weiss. 2015. Comparing bristlecone pine growth response to topographically-influenced temperature models. Association of Washington Geographers conference, Bellingham, WA.

Bruening, J M, **T J Tran**, A G Bunn, M W Salzer, S B Weiss. 2015. Fine-scale topoclimate modeling of surface temperatures in complex mountainous terrain on Mt. Washington, Nevada. Association of Washington Geographers conference, Bellingham, WA.

TA Experience

Energy efficient design (18 students)
Introduction to global change (75 students)
Energy and the environment (30 students, 2 terms)
Applications in energy production (15 students)
Huxley College speaker/seminar series (35 students)