

Alec S. Baird

Website: <http://www.alecbaird.weebly.com>

Research Inquiries: alecsbaird@gmail.com

Adaptive Symbiotic Technologies Inquiries: abaird@adsymtech.com

Research Interests

Comparative Plant Physiology; Tree Physiology; Tree Species Distributions and Climate Change; Plant Plasticity to Abiotic and Biotic Stress; Crop-Endophyte Eco-Physiology

Education

University of California, Los Angeles – PhD in Plant Physiology **2017 - present**

Department of Ecology and Evolutionary Biology

Advisor: Dr. Lawren Sack

Anticipated Start Date: September 2017

University of Washington – BS in Biology (Plant), Minor in French **2012 – 2016**

Advisors: Dr. Janneke HilleRisLambers, Dr. Elizabeth Van Volkenburgh

Professional Positions

Current:

Biological Researcher **2016 – present**

Adaptive Symbiotic Technologies, 3503 NE 45th Street, Suite 2W, Seattle, WA 98105

Post-Baccalaureate Researcher **2016 – present**

University of Washington, Seattle, WA, Department of Biology,

Advisors/Principal Investigators: Dr. Janneke Hille Ris Lambers, Dr. Elizabeth Van

Volkenburgh, Kincaid 438, Johnson 217

Past:

Undergraduate Researcher **2014 – 2016**

University of Washington, Department of Biology

Advisors: Dr. Janneke Hille Ris Lambers, Dr. Elizabeth Van Volkenburgh

Mentors: Leander Love-Anderegg (PhD Candidate), Melissa Lacey (PhD Candidate)

Data Technician **2015 – 2016**

University of Washington, Department of Environmental and Forest Sciences; Principal

Investigator: Dr. Jerry Franklin, Supervisor: Paul Fischer

Field Intern **September 2014**

Mt. Rainier National Park, WA

Supervisor: Dr. Kevin Ford (USDA Postdoctoral Researcher)

Research/Field Assistant **June – August 2014**

La Plata Mountains, San Juan National Forest, CO

Supervisor: Leander Love-Anderegg (PhD Candidate)

Undergraduate Research Assistant **2013 – 2014**

University of Washington, Department of Biology

Principal Investigator: Dr. Janneke Hille Ris Lambers, Supervisor: Dr. Steve Kroiss

Undergraduate Research Assistant **Jan. – Sept. 2014**

University of Washington, Department of Biology

Principal Investigator: Dr. Elizabeth Van Volkenburgh, Mentor – Melissa Lacey

Publications

1. **Baird AS**, Anderegg LDL, Lacey ME, HilleRisLambers J, Van Volkenburgh E. (2017) Comparative leaf growth strategies in response to low-water and low-light availability: Variation in leaf physiology underlies variation in leaf mass per area (LMA) in *Populus tremuloides*. *Tree Physiology*. doi: 10.1093/treephys/tpx035

Grants & Awards

Best Undergraduate Research Paper, Franco Award (\$3,000)	2016
The University of Washington, Department of Biology	
Conference Travel Award (\$850)	2015
The University of Washington, Undergraduate Research Program	
Scholarship (\$1,000)	2015
Washington State Nursery and Landscape Association (WSNLA)	
Research Grant (\$1,000)	2015
Washington State Nursery and Landscape Association (WSNLA)	
Frye-Hotson-Rigg Award (\$2,400)	2015
The University of Washington, Department of Biology	
Summer Scholarship in Field Botany (\$2,500)	2015
The Garden Club of America (GCA)	
Travel Grant (\$575)	2015
The American Society of Plant Biologists (ASPB)	
Mary Gates Research Endowment (\$4,000)	2015
The University of Washington	
Advanced Placement Scholar Award	2012
The President's Volunteer Service Award	2011
The American Red Cross	

Presentations

1. **Baird, AS.**, Anderegg, LDL., Lacey, ME., HilleRisLambers, J., Van Volkenburg, E. (May 2016) Comparative Leaf Growth Strategies in Response to Low-Water versus Low-Light Availability: How Form Influences Function in *Populus tremuloides*, Undergraduate Research Symposium, University of Washington (**Contributed Oral Presentation**)
- <http://alecbaird.weebly.com/uploads/2/7/4/8/27489619/urs2016.compressed.pdf>
2. **Baird, AS.**, Anderegg, LDL., Lacey, ME., HilleRisLambers, J., Van Volkenburg, E. (May, July, August 2015) Climatic and Competitive Constraints Drive Clinal Variation in *Populus tremuloides* Leaf Morphology. Undergraduate Research Symposium (**Contributed Poster Presentation**), University of Washington, Plant Biology (ASPB) Conference (**Contributed Poster Presentation**), Ecological Society of America (ESA) Conference (**Contributed Poster Presentation**)
3. **Baird, AS.**, Kroiss, S., HilleRisLambers, J. (April, May 2014) Sapling Growth Across an Elevational Gradient: Implications of Climate Change Responses. National Conference of Undergraduate Research, Eastern Washington University (**Invited**). Undergraduate Research Symposium, University of Washington (**Contributed Poster Presentation**)

Activities

Seminars & Workshops:

Undergraduate Modeling Workshop

May 2015

Statistical and Applied Mathematical Sciences Institute (SAMSI), North Carolina State University, Raleigh, NC

Biology 180 (1st Intro. Biology Course) Rebooting Concepts in Ecological Seminar 2015

University of Washington, Department of Biology, Seattle, WA

Quarterly Plant Biology Seminar: Photosynthesis

2014 – 2016

University of Washington, Department of Biology, Seattle, WA

Professional Societies:

Society of Plant Signaling and Behavior (PSB)

Cactus and Succulent Society of America (CSSA)

Ecological Society of America (ESA)

American Society of Plant Biologists (ASPB)

Journal Responsibilities:

Reviewer, Frontiers in Plant Science

References

Dr. Elizabeth Van Volkenburgh, Professor

Department of Biology, University of Washington, Seattle

Relationship: Advisor. Email: lizvanv@uw.edu. Phone: (206)-529-7246

Dr. Janneke Hille Ris Lambers, Professor

Department of Biology, University of Washington, Seattle

Relationship: Advisor. Email: jhrl@uw.edu. Phone: (206)-228-9157

Leander Love-Anderegg, PhD Candidate

Department of Biology, University of Washington, Seattle

Relationship: Mentor. Email: ldla@uw.edu. Phone: (541)-790-1096

Melissa Lacey, PhD Candidate

Department of Biology, University of Washington, Seattle

Relationship: Mentor. Email: mlacey2@uw.edu. Phone: (413)-687-1053