

Alec S. Baird

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Research Interests

- Comparative plant physiology (emphasis on tree physiology)
- Leaf level adaptation and acclimation to abiotic and biotic stress
- Expansive leaf growth physiology
- Climate change and tree biogeography

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 HilleRisLambers, Dr. Elizabeth Van
Volkenburgh, Kincaid 438, Johnson 217

Past:

Undergraduate Researcher **2014 – 2016**
University of Washington, Department of Biology
Advisors: Dr. Janneke HilleRisLambers, Dr. Elizabeth Van Volkenburgh

Data Technician **2015 – 2016**
University of Washington, Department of Environmental and Forest Sciences; Principal
Investigator: Dr. Jerry Franklin

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: Dr. Leander Love-Anderegg

Undergraduate Research Assistant **2013 – 2014**
University of Washington, Department of Biology
Principal Investigator: Dr. Janneke HilleRisLambers, 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. Van Volkenburgh, E., **Baird, AS.**, Lacey, ME., Rininger, A., Cantillo-Polo, J. Mechanisms of Behavior in Plants. **Invited Oral Presentation**
- **June 2017:** Plant Signaling and Behavior (PSB) Conference, Matsue, Japan
2. **Baird, AS.**, Anderegg, LDL., Lacey, ME., HilleRisLambers, J., Van Volkenburgh, E. Comparative Leaf Growth Strategies in Response to Low-Water versus Low-Light Availability: How Form Influences Function in *Populus tremuloides*, **Contributed Oral Presentation**
- **May 2016:** Undergraduate Research Symposium, University of Washington, Seattle, U.S.
- <http://alecbaird.weebly.com/uploads/2/7/4/8/27489619/urs2016.compressed.pdf>

3. **Baird, AS.**, Anderegg, LDL., Lacey, ME., HilleRisLambers, J., Van Volkenburg, E. Climatic and Competitive Constraints Drive Clinal Variation in *Populus tremuloides* Leaf Morphology. **Contributed Poster Presentation**
 - **May 2015:** Undergraduate Research Symposium, University of Washington, Seattle, U.S.
 - **July 2015:** Plant Biology (ASPB) Conference, Minneapolis, U.S.
 - **August 2015:** Ecological Society of America (ESA) Conference, Baltimore, U.S.
4. **Baird, AS.**, Kroiss, S., HilleRisLambers, J. Sapling Growth Across an Elevational Gradient: Implications of Climate Change Responses. **Contributed Poster Presentation**
 - **April 2014:** National Conference of Undergraduate Research, Eastern Washington University **(Invited)**.
 - **May 2014:** Undergraduate Research Symposium, University of Washington, Seattle, U.S.

Activities

Seminars & Workshops:

Quarterly Plant Biology Seminar: Drought and Plant Physiology **2016 – 2017**

University of Washington, Department of Biology, Seattle, WA

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 – 2015**

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:

Peer Reviewer: Frontiers in Plant Science