

Alec S. Baird

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Research Interests

- Comparative plant anatomy and physiology
 - Experimental investigation of leaf level acclimation/plasticity
 - Modeling expansive cell and leaf growth physiology with anatomy, hydraulics, and metabolism
 - Investigating the impacts of leaf level physiology on whole plant function
 - Physiological and anatomical mechanisms underlying
 - intra- versus inter- specific trait variation (stress tolerance traits)
 - species coexistence

Education & Professional Positions

- PhD in Plant Physiology, University of California: Los Angeles, U.S., Department of Ecology and Evolutionary Biology, Advisor: Dr. Lawren Sack
Guidance Committee: Dr. Lawren Sack, Dr. Nathan Kraft, Dr. Van Savage
September 2017 – present
- Research Biologist, Adaptive Symbiotic Technologies, Seattle, U.S., 2016-2017
- Post-Baccalaureate Researcher, University of Washington, Seattle, U.S., Department of Biology, 2016-2017
- Bachelor of Science in Biology (Plant) and minor in French Language and Literature.
University of Washington, Seattle, U.S., 2012 - 2016
- Data Technician, University of Washington, Seattle, U.S., School of Environmental and Forest Sciences, Supervisor: Paul Fischer (Jerry Franklin Lab), 2015-2016
- Undergraduate Researcher, University of Washington, Seattle, U.S., Department of Biology, Advisors: Dr. Janneke HillsRisLammers, Dr. Elizabeth Van Volkenburgh. “The Impacts of Environmental Change on Tree (Sapling) Form and Function”, 2013 – 2016

Publications

1. **Baird AS**, Anderegg LDL, Lacey ME, HilleRisLammers 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*. 37:1140-1150. doi: <https://doi.org/10.1093/treephys/tpx035>

Grants & Awards

Edwin W. Pauley Fellowship (\$30,000) The University of California – Los Angeles, College of Letters and Science	2017
Franco Award, Best Undergraduate Research Paper (\$3,000) The University of Washington, Department of Biology	2016
Conference Travel Award (\$850) The University of Washington, Undergraduate Research Program	2015
Scholarship (\$1,000) Washington State Nursery and Landscape Association (WSNLA)	2015
Research Grant (\$1,000) Washington State Nursery and Landscape Association (WSNLA)	2015
Frye-Hotson-Rigg Award (\$2,400) The University of Washington, Department of Biology	2015
Summer Scholarship in Field Botany (\$2,500) The Garden Club of America (GCA)	2015
Travel Grant (\$575) The American Society of Plant Biologists (ASPB)	2015
Mary Gates Research Endowment (\$4,000) The University of Washington	2015

Presentations (* = Presenting author)

1. **Baird, AS***., Anderegg LDL., Lacey, ME., HilleRisLambers, J., Van Volkenburgh E. Comparative Leaf Growth Strategies in Response to Low-Water versus Low-Light Availability: Variation in Leaf Physiology Underlies Variation in Leaf Mass per Area. **Contributed Poster Presentation, August 2017:** Ecological Society of America (ESA) Conference, Portland, U.S.
2. 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
3. **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.
4. **Baird, AS***., Anderegg, LDL., Lacey, ME., HilleRisLambers, J., Van Volkenburgh, 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.
5. **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 & Declined**), **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

Societies/Organizations:

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), Union of Concerned Scientists (UCS)

Journal Responsibilities:

Peer Reviewer: Frontiers in Plant Science (1), ScienceAsia (1)

Note: the # in “()” denotes the number of manuscripts reviewed per journal