

PUBLICATIONS**2016**

- Blonder, B. Pushing past boundaries for trait hypervolumes: a response to Carmona et al. *Trends in Ecology and Evolution*.
- Feakins, S.J., Peters, T., Wu, M.S., Shenkin, A., Salinas, N., Girardin, C.A.J., Bentley, L.P., Blonder, B., Enquist, B.J., Martin, R.E., Asner, G.P. & Malhi, Y. Production of leaf wax n-alkanes across a tropical forest elevation transect. *Organic Geochemistry*.
- Goldsmith, G. R., Bentley, L. P., Shenkin, A., Salinas, N., Blonder, B., Martin, R. E., Castro-Ccosco, R., Chambi-Porroa, P., Diaz, S., Enquist, B. J., Asner, G. P. and Malhi, Y. Variation in leaf wettability traits along a tropical montane elevation gradient. *New Phytologist*.
- Loranger, J., Blonder, B., Garnier, E., Shipley, B., Vile, D., Violle, C. Occupancy and overlap in trait space along a successional gradient in Mediterranean old fields. *American Journal of Botany*.
- Feakins, SJ, Bentley, LP, Salinas, N, Shenkin, A, Blonder, B., Goldsmith, GR, Ponton, C, Arvin, LJ, Wu, MS, Peters, T, Joshua West, A, Martin, RE, Enquist, BJ, Asner, GP, Malhi, Y. Plant leaf wax biomarkers capture gradients in hydrogen isotopes of precipitation from the Andes and Amazon. *Geochimica et Cosmochimica Acta*.
- Blonder, B. Do hypervolumes have holes? *The American Naturalist* 187(4): e-article.
- Blonder, B., Baldwin, B., Enquist, B., Robichaux, R. Variation and macroevolution in leaf functional traits in the Hawaiian silversword alliance (Asteraceae). *Journal of Ecology* 104(1): 219-228.

2015

- Morueta Holme, N., Blonder, B., Sandel, B., McGill, B., Peet, R., Ott, J., Violle, C., Enquist, B., Jørgensen, P., Svenning, J. A network approach for inferring species associations from co-occurrence data. *Ecography* (in press)
- Blonder, B., Vasseur, F., Violle, C., Shipley, B., Enquist, B.J., Vile, D. Testing models for the leaf economics spectrum with leaf and whole-plant traits in *Arabidopsis thaliana*. *Annals of Botany – Plants* 7 (plv049) – **editor's choice**.
- Blonder, B., Nogues-Bravo, D., Borregaard, M., Lessard, J.P., Violle, C., Svenning, J.C., Rahbek, C., Enquist, B. Linking environmental filtering and disequilibrium to biogeography with a community climate. *Ecology* 96(4): 972-985 – **F1000 recommended**.

2014

- Blonder, B., Sloat, L., Enquist, B.J., McGill, B. Separating macroecological pattern and process in ecological, economic, and geological systems. *PLoS One* 9(11): e112850.
- Blonder, B., Royer, D., Johnson, K., Wilf, P., Miller, I., Boyle, B., Enquist, B. Plant ecological strategies shift at the Cretaceous-Paleogene boundary. *PLoS Biology* 12(9): e1001949.
- Lamanna, C.A., Blonder, B. (shared first author), Violle, C., Kraft, N.J.B., Sandel, B., Simova, I., Donoghue III, J., Svenning, J.-C., McGill, B.J., Boyle, B., Buzzard, V., Dolins, S., Jørgensen, P.M., Marcuse-Kubitza, A., Morueta-Holme, N., Peet, R.K., Piel, W., Regetz, J., Schildhauer, M., Spencer, N., Thiers, B.M., Wiser, S.K., Enquist, B.J. The latitudinal gradient of tree species richness and functional trait space. *Proceedings of the National Academy of Sciences USA* 111(38): 13745-13750.
- Moles, A. T., Perkins, S. E., Laffan, S. W., Flores-Moreno, H., Awasthy, M., Tindall, M. L., Sack, L., Pitman, A., Kattge, J., Aarssen, L. W., Anand, M., Bahn, M., Blonder, B., Cavender-Bares, J., Cornelissen, J. H. C., Cornwell, W. K., Díaz, S., Dickie, J. B., Freschet, G. T., Griffiths, J. G., Gutierrez, A. G., Hemmings, F. A., Hickler, T., Hitchcock, T. D., Keighery, M., Kleyer, M., Kurokawa, H., Leishman, M. R., Liu, K., Niinemets, Ü., Onipchenko, V., Onoda, Y., Penuelas, J., Pillar, V. D., Reich, P. B., Shiodera, S., Siefert, A., Sosinski, E. E., Soudzilovskaia, N. A., Swaine, E. K., Swenson, N. G., van Bodegom, P. M., Warman, L., Weiher, E., Wright, I. J., Zhang, H., Zobel, M., Bonser, S. P. Which

is a better predictor of plant traits: temperature or precipitation? *Journal of Vegetation Science* 25(5): 1167-1180.

- Blonder, B., Enquist, B. Inferring climate from angiosperm leaf venation networks. *New Phytologist* 204(1): 116-126.
- Blonder, B., Violle, C., Patrick Bentley, L., Enquist, B. Inclusion of vein traits improves predictive power for the leaf economic spectrum: a response to Sack et al. (2013). *Journal of Experimental Botany* 65(18): 5109-5114.
- Blonder, B., Lamanna, C., Enquist, B. The n-dimensional hypervolume. *Global Ecology and Biogeography* 23: 595–609.
- Lega, J., Tama, F., Blonder, B., Buxner, S. Explorations in integrated science. *Journal of College Science Teaching* 43(4): 55-60.

2013

- Blonder, B., Violle, C., Enquist, B. Assessing the causes and scales of the leaf economics spectrum using venation networks in *Populus tremuloides*. *Journal of Ecology* 101(4): 981-989.
- Pérez-Harguindeguy, N., Díaz, S., Garnier, E., Lavorel, S., Poorter, H., Jaureguiberry, P., Bret-Harte, M. S., Cornwell, W. K., Craine, J. M., Gurvich, D. E., Urcelay, C., Veneklaas, E. J., Reich, P. B., Poorter, L., Wright, I. J., Ray, P., Enrico, L., Pausas, J. G., de Vos, A. C., Buchmann, N., Funes, G., Quétier, F., Hodgson, J. G., Thompson, K., Morgan, H. D., ter Steege, H., van der Heijden, M. G. A., Sack, L., Blonder B., Poschlod, P., Vaieretti, M. V., Conti, G., Staver, A. C., Aquino, S., Cornelissen, J. H. C. New handbook for standardised measurement of plant functional traits worldwide. *Australian Journal of Botany* 61(3): 167-234.
- Charbonneau, D., Blonder, B., Dornhaus, A. Social insect networks. Chapter in *Temporal Networks* (Springer-Verlag).

2012

- Blonder, B., Buzzard, V., Simova, I., Sloat, L., Boyle, B., Lipson, R., Aguilar-Beaucage, B., Andrade, A., Barber, B., Barnes, C., Bushey, D., Cartagena, P., Chaney, M., Contreras, K., Cox, M., Cueto, M., Curtis, C., Fisher, M., Furst, L., Gallegos, J., Hall, R., Hauschild, A., Jerez, A., Jones, N., Klucas, A., Kono, A., Lamb, M., Matthai, J.D., McIntyre, C., McKenna, J., Mosier, N., Navabi, M., Ochoa, A., Pace, L., Plassmann, R., Richter, R., Russakoff, B., Aubyn, H.S., Stagg, R., Sterner, M., Stewart, E., Thompson, T.T., Thornton, J., Trujillo, P.J., Volpe, T.J., Enquist, B.J. The shrinkage effect biases estimates of paleoclimate. *American Journal of Botany* 99(11): 1756-1763.
- Blonder, B., De Carlo, F., Moore, J., Rivers, M., Enquist, B. X-ray imaging of leaf venation networks. *New Phytologist* 196(4): 1274-82.
- Blonder, B., Wey, T., Dornhaus, A., James, R., Sih, A. Temporal dynamics and network analysis. *Methods in Ecology and Evolution* 3(6): 958-972.

2011

- Blonder, B., Violle, C., Patrick, L., Enquist, B. Leaf venation networks and the origin of the leaf economics spectrum. *Ecology Letters* 14 (2): 91-100.
- Kattge, J., Díaz, S., Lavorel, S., Prentice, I. C., Leadley, P., Bönisch, G., Garnier, E., Westoby, M., Reich, P. B., Wright, I. J., Cornelissen, J. H. C., Violle, C., Harrison, S. P., Van Bodegom, P. M., Reichstein, M., Enquist, B. J., Soudzilovskaia, N. A., Ackerly, D. D., Anand, M., Atkin, O., Bahn, M., Baker, T. R., Baldocchi, D., Bekker, R., Blanco, C. C., Blonder, B., Bond, W. J., Bradstock, R., Bunker, D. E., Casanoves, F., Cavender-Bares, J., Chambers, J. Q., Chapin Iii, F. S., Chave, J., Coomes, D., Cornwell, W. K., Craine, J. M., Dobrin, B. H., Duarte, L., Durka, W., Elser, J., Esser, G., Estiarte, M., Fagan, W. F., Fang, J., Fernández-Méndez, F., Fidelis, A., Finegan, B., Flores, O., Ford, H., Frank, D., Freschet, G. T., Fyllas, N. M., Gallagher, R. V., Green, W. A., Gutierrez, A. G., Hickler, T., Higgins, S. I., Hodgson, J. G., Jalili, A., Jansen, S., Joly, C. A., Kerkhoff, A. J., Kirkup, D., Kitajima, K., Kleyer, M., Klotz, S., Knops, J. M. H., Kramer, K., Kühn, I., Kurokawa, H., Laughlin, D., Lee, T. D., Leishman, M., Lens, F., Lenz, T., Lewis, S. L., Lloyd, J., Llusià, J., Louault, F., Ma, S., Mahecha, M. D., Manning, P., Massad, T., Medlyn, B. E., Messier, J., Moles, A. T., Müller, S. C., Nadrowski, K., Naeem, S., Niinemets, Ü., Nöllert, S., Nüske, A., Ogaya, R., Oleksyn, J., Onipchenko, V. G., Onoda, Y., Ordoñez,

J., Overbeck, G., Ozinga, W. A., Patiño, S., Paula, S., Pausas, J. G., Peñuelas, J., Phillips, O. L., Pillar, V., Poorter, H., Poorter, L., Poschlod, P., Prinzing, A., Proulx, R., Rammig, A., Reinsch, S., Reu, B., Sack, L., Salgado-Negret, B., Sardans, J., Shiodera, S., Shipley, B., Siefert, A., Sosinski, E., Soussana, J.-F., Swaine, E., Swenson, N., Thompson, K., Thornton, P., Waldram, M., Weiher, E., White, M., White, S., Wright, S. J., Yguel, B., Zaehle, S., Zanne, A. E., Wirth, C. TRY – a global database of plant traits. *Global Change Biology* 17(9): 2905-2935.

- Blonder, B. and Dornhaus, A. Time-ordered networks reveal limitations to information flow in ant colonies. *PLoS One* 6(5): e20298.

Reviewer for: American Journal of Botany, American Naturalist, Annals of Botany, Animal Behaviour, Annual Review of Ecology Evolution & Systematics, BMC Plant Biology, Comisión Nacional de Investigación Científica y Tecnológica (Chile), Ecography, Ecology, Ecology Letters, Global Change Biology, Global Ecology and Biogeography, International Journal of Tropical Ecology, Journal of Ecology, Journal of Plant Ecology, Marsden Fund (New Zealand), National Science Foundation (USA), New Phytologist, PLoS One, Oikos, Proceedings of the Royal Society B, Proceedings of the National Academy of Sciences USA, Journal of Plankton Research, Tree Physiology, Trees – Structure and Function.

APPOINTMENTS

University of Oxford, 04/15 – 12/17. Natural Environment Research Council (NERC) independent research fellow, based at the Environmental Change Institute.

University of Oxford. 03/15 – 04/15. Postdoctoral researcher, Ecosystems group (host: Y. Malhi).

Balliol College, University of Oxford. 10/15 – 10/18. Junior research fellow.

Wolfson College, University of Oxford. 03/15 – 09/15. Junior research fellow.

EDUCATION

University of Arizona. 2009-2014. Ph. D., ecology and evolutionary biology.

University of Idaho. 2008-2009. M. Ed candidate. Certificate in environmental education.

Swarthmore College. 2005-2008. B.A., physics, mathematics.

VISITING POSITIONS

Norwegian University of Science and Technology. 2015-2016. Visitor, plant ecology. (host: **B. Graae**).

University of Oxford. 2014. Visitor, ecosystems group (host: **Y. Malhi**).

Aarhus University. 2013. Visitor, ecoinformatics group (host: **J.C. Svenning**).

University of Copenhagen. 2012-2013. Visitor, Center for Macroecology Evolution and Climate (host: **C. Rahbek, D. Nogués-Bravo**).

TEACHING EXPERIENCE

University of Arizona Sky School. Mt. Lemmon, AZ. 2011 - present. Founded inquiry-based outdoor science school for Arizona K-12 students. We serve predominantly low-income public schools. Last year we reached 600+ students over 16800+ contact-hours. I am currently the science coordinator.

Miles Exploratory Learning Center. Tucson, AZ. 2011-2012. Co-taught four middle school science classes for a full school year via a NSF GK-12 program (BioME). Focused on ecology and climate curriculum. Published a peer-reviewed study with middle school co-authors.

University of Arizona. Tucson, AZ. 2010-2011. Taught courses for Integrated Science program. Led lectures, laboratory activities, and directed readings for students.

McCall Outdoor Science School / AmeriCorps. McCall, ID. 2008 – 2009. Taught environmental science and community/leadership skills to Idaho K-12 students through residential and outreach programs. Developed curricula and managed up to 14 instructors. Co-led summer teacher institute and Upward Bound programs for Idaho NSF EPSCoR program. Taught summer Junior Rangers ecology programs for Ponderosa State Park.

Swarthmore College. Swarthmore, PA. 2007-2008. Developed and taught credit-granting seminar on the physics of biological systems. Also led twice-weekly problem sessions and acted as a resource and liaison for introductory classes.

AWARDS, GRANTS, AND FELLOWSHIPS

2015 Green 2.0 Working Group – Leadership at Work recognition
2015 Norwegian Research Council KLIMAFORSK visiting researcher grant (139,000 NOK)
2015 UK NERC 5-year independent research fellowship (£250000)
2014 Norwegian Research Council 3-year fellowship (4,200,000 NOK; declined)
2015 University of California President’s Postdoctoral fellowship (declined)
2014 Carlsberg Foundation 2-year fellowship (1,200,000 DKK – declined)
2014 Rocky Mountain Biological Laboratory research grant (\$750)
2014 White House ‘Champion of Change’ - environmental stewardship and conservation
2013 Aarhus University CIRCE collaboration (\$3000)
2013 UA Institute for the Environment travel grant (\$500)
2012 NSF Doctoral Dissertation Improvement Grant (\$15000)
2012 University of Arizona graduate/professional student council travel grant (\$500)
2012 UA Institute for the Environment travel grant (\$500)
2012 ESA Physiological Ecology section travel grant (\$500)
2012 NSF/DNRF Nordic Research Opportunity (Denmark) (\$25000)
2012 GSA research grant (also outstanding mention award) (\$1400)
2011-2012 University of Arizona BiME K-12 science teaching fellowship (\$30000)
2011-2012 National Geographic Committee on Research and Exploration research grant (\$5000)
2011 ESA Physiological Ecology section travel grant (\$500)
2011 Rocky Mountain Biological Laboratory summer research fellowship (\$900)
2011 UA Institute for the Environment travel grant (\$500)
2011 University of Arizona Galileo Circle scholarship (\$1000)
2010 UA student showcase, President's Award and 1st prize, biological sciences division (\$250)
2010, 2011 Argonne National Laboratory, Advanced Photon Source beamline access
2010-2013 NSF graduate research fellowship (\$30000 x 3 years)
2010-2011 Biosphere 2 Science and Society fellowship (\$3000)
2010 Sigma Xi grant-in-aid of research (\$500)
2010 University of Arizona graduate/professional student council travel grant (\$500)
2009-2010 University of Arizona graduate college fellowship (\$30000)
2009 American Physical Society education mini-grant (\$500)
2008-2009 DeVlieg Foundation scholarship (\$1000)
2008 Swarthmore College William C. Elmore award (\$500)

INVITED PRESENTATIONS

08/16 “Community-scale implications of leaf temperature variation in subalpine and alpine meadows”, Los Alamos National Laboratory
07/16 “Why do leaves have loops?”, Gordon Research Conference, multiscale vascular plant biology
06/16 “Towards predictive community ecology”, Rocky Mountain Biological Laboratory
04/16 “When does a community’s future depend on its past?”, University of Copenhagen
10/15 “Learning from the past: moving beyond short-term thinking on climate change”, Rhodes Trust
03/15 “Scaling up in ecology”, Oregon State University
02/15 “Scaling up in ecology”, Utah State University
02/15 “Scaling up in ecology”, Arizona State University
02/15 “Frontiers in niche-based ecology”, University of Arizona
12/14 “Frontiers in niche based thinking”, University of California - Berkeley
11/14 “Niches and hypervolumes”, University of Texas - Austin
09/14 “Why you should care about niche geometry”, Norwegian University of Science and Technology

- 06/14 “Why you should care about niche geometry”, University of Oxford, Martin School
- 10/13 “Assembly of communities in climate space”, Charles University, Prague
- 08/13 "More is different (in ecology)", INNGE, London
- 02/13 “Niches and the n-dimensional hypervolume”, University of Arizona
- 02/13 “What really happened at the end of the Cretaceous”, University of Puerto Rico
- 10/12 “How to build a time machine using only leaves”, University of Oxford, Center for Tropical Forests
- 09/12 “How plants respond to climate change: a functional perspective”, Copenhagen University
- 09/12 “How to build a time machine using only leaves”, Aarhus University
- 02/12 “Skeletons in the forest”, Institute for Tropical Ecosystem Studies, University of Puerto Rico.
- 09/10 “Exploring leaf diversity”, Arizona K-12 Science Teacher Symposium.
- 10/08 “Experiential science education”, Serve Idaho.

OTHER PRESENTATIONS

- 08/15 Oral: “Linking environmental filtering and disequilibrium to biogeography with a community climate framework”, ESA Baltimore
- 07/14 Poster: “Niches and the n-dimensional hypervolume”, Gordon Conference, Unifying Ecology
- 08/13 Oral: "Climate space assembly of communities", INTECOL, London
- 05/13 Oral: “What really happened at the end of the Cretaceous”, Manú National Park, Peru
- 08/12 Oral: "Leaf venation networks and paleoclimate", ESA Portland.
- 07/12 Poster: "Leaf venation networks", Gordon Conference, Metabolic Basis of Ecology.
- 08/11 Oral: "Linking leaf venations to the leaf economics spectrum and paleoclimate", ESA Austin.
- 10/10 Poster: "Secrets of the naked leaf", University of Arizona student showcase.
- 09/10 Oral: "Secrets of the naked leaf", Biosphere 2 Science Saturdays.
- 08/10 Oral: "Ant interaction networks", IUSSI 16th International Symposium.
- 07/10 Poster: "Leaf venation networks", Gordon Conference, Metabolic Basis of Ecology.
- 03/10 Oral: "Ant social networks", UAGC symposium.
- 02/10 Poster: "Information flow in ant social networks", ASU Social Biomimicry conference.

MEDIA COVERAGE

- 09/14 Print: “Meteorite that killed off dinosaurs shaped modern-day plants”, Los Angeles Times
- 09/14 Print: “Asteroid that wiped out dinosaurs also 'reset plant species'”, Daily Mail
- 09/14 Print: “The Meteor That Wiped Out the Dinosaurs Changed Earth’s Plant Life, Too”, Newsweek
- 09/14 Web: “Every leaf tells a story”, The Guardian
- 03/14 Web: “Champions of Change” award (coverage by the White House, National Science Foundation, Sierra Club, AmeriCorps, Arizona Daily Star, etc.)
- 08/13 Print: “Secrets of the naked leaf”, Crested Butte News
- 08/13 Radio: "All about leaves", Nature Notes, KBUT radio
- 05/13 Web: "High School Citizen Scientists' Work May Help Better Climate Models", Nature Labcoat life, Popular Science
- 03/13 Web: Winning image in BMC Ecology contest featured on The Guardian, CBS News, UK Daily Mail
- 02/13 TV: "Dry leaves make juicy science" ISTV (for local news nationwide)
- 11/12 Web: “Costa Rica figures in study to adjust fossil and ecological data”, AM Costa Rica
- 11/12 Web: "Dry leaves make juicy science", Science Daily
- 09/11 Print: "Myrernes samtale", Ud og Se passagermagasin (DSB Railway, Denmark)
- 08/11 Web: "Using fossil leaf veins to reconstruct past climates", Nature newsblog
- 07/11 Web/print: 18th place winner, Nikon Small World photomicrography competition
- 06/11 TV: "Ant social networks", KVOA TV
- 06/11 Web: "Myrer springer de kedelige møder over", Videnskab
- 05/11 Web: "Ants give new evidence for interaction networks", Science Daily
- 05/11 TV: National Geographic "X-Ray Earth" documentary
- 12/10 Radio: KUAZ (Arizona Public Media) short feature on leaf networks
- 11/10 Web: "Lifeblood of leaves" - Science Daily

04/09 TV: "Environmental education", interviewed by KIVI news (Boise, ID)

COMMUNITY AND EDUCATION WORK

Rocky Mountain Biological Laboratory. Gothic, CO. 2015–present. Co-organized and curated community art show integrating scientific perspectives on natural environments.

Inspiring Connections Outdoors (Sierra Club Foundation). Tucson, AZ. 2009 - 2014. Lead outdoor trips for school and refugee groups to promote healthy lifestyles and environmental awareness.

Biosphere 2. Oracle, AZ. 2010 - 2011. As Science and Society fellow, conducted science outreach programs, gave public lectures and teacher workshops, and developed museum displays.

Sky Island Alliance. Tucson, AZ. 2009 - present. Field volunteer for regional conservation projects.

Expanding Your Horizons. Swarthmore, PA and Tucson, AZ. 2006-2009. Co-led workshops for annual conference for middle school-age girls interested in science.

STUDENTS MENTORED

Masters' students

Clarke Knight (University of Oxford) – 2016, main supervisor – **thesis awarded distinction**: “Influence of climate on North American pollen assemblages since the Last Glacial Maximum”

Jarome Ali (Imperial College London) – 2016, co-supervisor – **thesis awarded distinction**: “Geometry of the avian hypervolume: threatened species are morphologically distinct and functionally unique”

Andréa Davrinche (Université Pierre et Marie Curie) –2016, co-supervisor: “Herbivory and thermoregulation in a temperate deciduous forest” -

Summer undergraduate research students

Richard Forbes (Colorado College) – 2015, co-supervisor

Lake Crawford (Kansas University) – 2015, main supervisor

Sabastian Escobar (San Bernadino Valley College) – 2016, main supervisor

Research / lab project students

Alberta Chaj (University of Arizona) - 2014

Chelsea Powers (Tucson High Magnet School) - 2010

Courtney Magness (University of Arizona) – 2011

Damian Alzua (Tucson High Magnet School) - 2010

Daniel Wolf (University of Arizona) - 2010

David Kahler (University of Arizona) - 2012

Elisabeth Bergman (University of Arizona) - 2014

Elise Boyle (University of Arizona) - 2014

Jessie Rebl (University of Arizona) - 2014

John Lacson (University of Arizona) - 2012

Jordan Stark (Skidmore College) - 2015

Katherine Quispe Huaypar (Universidad Nacional de San Antonio Abad del Cusco) - 2013

Kayla Lauger (University of Arizona) - 2010

Lindsey Parker (University of Arizona) - 2011

Matthew Belheir (University of Arizona) - 2014

Milan Curry (University of Arizona) - 2010

Nathan May (University of Arizona) - 2012

Nicolle Ioakem (University of Arizona) - 2012

Rebecca Lehman (Colorado College) - 2015

Zoe Mendoza (University of Arizona) – 2014

FIELD EXPERIENCE

Malaysia – Sabah, Borneo – 2 months – led fieldwork temporarily for large international project on tropical forest functioning under land use change with Malaysian and Spanish speaking field team.

Peru – eastern Andes – 2 months – led leaf venation work for large international project on tropical forest carbon fluxes, and trained a Spanish-speaking field team. Primarily camping in remote areas.

Hawaii – Big Island, Maui, Kauai - 1 month – planned and led fieldwork to collect functional traits for a range of threatened and endangered Hawaiian silversword alliance species.
Costa Rica – Rio Savegre drainage - 1 months – field team member for botanical surveying expedition along an elevation gradient. Conducted tree/liana transects and collected voucher material in remote areas.
Panama – Barro Colorado Island - 2 months – field team member for NSF macrosystems project. Set up permanent plots, collected functional traits, managed data.
Puerto Rico – El Yunque - 2 months – field team member for NSF macrosystems project. Set up permanent plots, collected functional traits, managed data.
Norway – Dovre mountains - 1 month – seedling surveys and carbon flux measurements in subalpine meadows.
Colorado - high Rockies - 6 summers – led fieldwork in montane systems. Conducted carbon fluxes, plant censuses, functional trait collection. Extensive backcountry camping in alpine areas.
Oregon – Andrews Forest - 2 months – surveyed woody debris and fish populations in streams.
Arizona – various locations - 5 years – extensive hiking and botanizing

LANGUAGES

Spoken: English, Spanish (advanced), Danish (beginner-intermediate), Norwegian (beginner)

Computer: R, MATLAB, C, C++, Objective-C, Java, Python

POPULAR SCIENCE PHOTOGRAPHY

12/15 *Journal of Ecology* – journal cover image
11/15 British Ecology Society photo contest – highly commended
11/14 British Ecology Society photo contest – overall-runner up
07/14 *BMC Ecology* image competition – winner, landscape ecology section
03/13 *UA Eye on the Environment* competition – people’s choice and best student award.
12/13 *Ecology Letters* – journal cover image
11/13 AIBS / *BioScience* magazine – Faces of Biology contest, 2nd place
09/13 Colorado Native Plant Society: 1st prize, native plant photography competition
09/13 UA Institute of the Environment annual report – cover image
08/13 Colorado Native Plant Society – winner, 2013 photo contest
03/13 Rocky Mountain Biological Laboratory - spring newsletter cover image
02/13 *BMC Ecology* image competition - overall runner-up + 3 highly commended images
12/12 *Methods in Ecology and Evolution* – journal cover image
08/12 Image featured in The Sierra Club Foundation's annual report (2011)
08/12 ESA EcoVision competition - 2nd place
07/12 Rocky Mountain Biological Laboratory - summer e-newsletter cover image
10/11 Rocky Mountain Biological Laboratory - fall newsletter cover image
09/11 Nikon *Small World* photomicrography competition - 18th place
04/11 *UA Eye on the Environment* competition - Science for Society award.

POPULAR SCIENCE WRITING

Blonder, B. Volcanes e islas en el cielo. *Mundo Nuestro* (2014).

Blonder, B. Next generation of environmental conservationists. www.whitehouse.gov/champions (2014).

Blonder, B., Morueta-Holme, N. En skov - eller bare et træ? *Vilde evolutionshistorier* - www.evolution.dk (2011).

Blonder, B. Teaching K-12 fluid dynamics: the physics of flow. *APS Forum on Education Newsletter* (Summer 2009).

Blonder, B. Natural curiosities. bblonder.wordpress.com (2010 - present; updated weekly)

OTHER RESEARCH EXPERIENCE

Eco-Informatics Summer Institute, H.J. Andrews LTER. 2008. Field survey and analysis for stream ecology project studying the effect of woody debris on channel morphology and fish habitat.

The Ecosystems Center, Marine Biological Laboratory. Woods Hole, MA. 2008-2009. Climate modeling and biogeochemical cycling externship.

Swarthmore College Department of Physics. Swarthmore, PA. 2007. Built a confocal microscope used for fluorescence correlation spectroscopy. Investigated fluidity of biological membranes.

REU, Mellon Institute, Carnegie Mellon University. Pittsburgh, PA. 2006. Studied dye-binding antibodies as fluorescent biolabels.

REU, Rowland Institute, Harvard University. Cambridge, MA. 2005. Investigated surface plasmon resonance-based biosensors with novel geometries and surface enhancements.