

**NATHAN JARED BOARDMAN KRAFT**

Associate Professor

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**Education:**

- **Ph.D.** Integrative Biology, December 2008, **University of California, Berkeley.** “Functional trait and phylogenetic-based tests of community assembly in a neotropical forest.” Supervisor: David Ackerly.
- **M.S.** Biological Sciences, September 2005, **Stanford University.**
- **A.B.** Biology, May 2001, **Brown University**, Providence, RI. Magna Cum Laude with Departmental Honors and Senior Biology Prize.

**Appointments:**

- **Associate Professor**, January 2016- present **University of California, Los Angeles**, Department of Ecology and Evolutionary Biology.
- **Assistant Professor**, July 2012- December 2015, **University of Maryland, College Park**, Department of Biology.
- **Specialist Scientist**, January - June 2012, **University of California, Santa Barbara.** Supervisor: Jonathan Levine.
- **Biodiversity Postdoctoral Fellow**, Oct 2009- December 2011, Biodiversity Research Centre, **University of British Columbia**, Vancouver.
- **Postdoctoral Researcher**, Jan-Sept 2009, Department of Integrative Biology, **University of California, Berkeley.** Supervisor: David Ackerly.

**Publications (published and in press- *bold* for lab members or visitors):**

**65. Claire Fortunel**, Jesse Lasky, María Uriarte, Renato Valencia, Joseph Wright, Nancy Garwood, **Nathan Kraft**, 2018. Topography and neighborhood crowding can interact to shape species growth and distribution in a diverse Amazonian forest. *Ecology*, in press.

**64.** William Petry, **Gaurav Kandlikar**, **Nathan Kraft**, Oscar Godoy, and Jonathan Levine. A competition-defence trade-off both promotes and weakens coexistence in an annual plant community. *Journal of Ecology*, in press.

**63. Gaurav Kandlikar**, **Marcel Vaz**, Ricardo Kreibel, German Vargas, Fabián Michelangeli, Roberto Cordero, Frank Almeda, Gerardo Avalos, Ned Fetcher, **Nathan Kraft**, 2018. Contrasting patterns of taxonomic, phylogenetic and functional variation along a Costa Rican altitudinal gradient in the plant family Melastomataceae. *Journal of Tropical Ecology*, 34:204-208.

**62.** Jeanne Osnas, Masatoshi Katabuchi, Kaoru Kitajima, S. Joseph Wright, Peter Reich, Sunshine Van Bael, **Nathan Kraft**, Mirna J. Samaniego, Stephen Pacala, and Jeremy Lichstein, 2018. Divergent drivers of leaf trait variation within species, among species, and among functional groups. *Proceedings of the National Academy of Science*, 115: 5480-5485.

**61.** Irena Šímová, Cyrille Violle, Jens-Christian Svenning, Jens Kattge, Kristine Engemann, Brody Sande, Robert Peet, Susan Wiser, Benjamin Blonder, Brian McGill, Brad Boyle, Naia Morueta-Holme, **Nathan Kraft**, Peter van Bodegom, Alvaro Gutiérrez, Michael Bahn, Wim Ozinga, Anna Tószögyová, Brian Enquist, 2018. Spatial patterns and climate relationships of major plant traits in the New World differ between woody and herbaceous species. *Journal of Biogeography*, 45:895-916.

**60.** Ethan E Butler, Abhirup Datta, Habacuc Flores-Moreno, Ming Chen, Kirk R Wythers, Farideh Fazayeli, Arindam Banerjee, Owen K Atkin, Jens Kattge, Bernard Amiaud, Benjamin Blonder, Gerhard Boenisch, Ben Bond-Lamberty, Kerry A Brown, Chaeho Byun, Giandiego Campetella, Bruno EL Cerabolini, Johannes HC Cornelissen, Joseph M Craine, Dylan Craven, Franciska T de Vries, Sandra Díaz, Tomas F Domingues, Estelle Forey, Andrés González-Melo, Nicolas Gross, Wenxuan Han, Wesley N Hattingh, Thomas Hickler, Steven Jansen, Koen Kramer, **Nathan Kraft**, Hiroko Kurokawa, Daniel C Laughlin, Patrick Meir, Vanessa Minden, Ülo Niinemets, Yusuke Onoda, Josep Peñuelas, Quentin Read, Lawren Sack, Brandon Schamp, Nadejda A Soudzilovskaia, Marko J Spasojevic, Enio Sosinski, Peter E Thornton, Fernando Valladares, Peter M van Bodegom, Mathew Williams, Christian Wirth, Peter B Reich, 2017. Mapping local and global variability in plant trait distributions. *Proceedings of the National Academy of Science*, 114:E10937.

**59.** Brian Maitner, Brad Boyle, Nathan Casler, Rick Condit, John Donoghue II, Sandra M. Durán, Daniel Guaderrama, Cody E. Hinchliff, Peter M. Jørgensen, **Nathan Kraft**, Brian McGill, Cory Merow, Naia Morueta-Holme, Robert K. Peet, Brody Sandel, Mark Schildhauer, Stephen A. Smith, Jens-Christian Svenning, Barbara Thiers, Cyrille Violle, Susan Wiser, Brian J. Enquist, 2018. The bien r package: A tool to access the Botanical Information and Ecology Network (BIEN) database. *Methods in Ecology and Evolution*, 9:373-379.

**58.** Cyrille Violle, Wilfried Thuiller, Nicolas Mouquet, François Munoz, **Nathan Kraft**, Marc Cadotte, Stuart Livingstone, Matthias Grenie, David Mouillot, 2017. A Common Toolbox to Understand, Monitor or Manage Rarity? A Response to Carmona et al. *Trends in Ecology and Evolution*, 32:891-893.

**57.** Serguei Saavedra, Rudolf Rohr, Jordi Bascompte, Oscar Godoy, **Nathan Kraft**, Jonathan Levine, 2017. A structural approach for understanding multi species coexistence. *Ecological Monographs* 87:470-486.

- 56.** Oscar Godoy, Daniel Stouffer, **Nathan Kraft**, Jonathan Levine, 2017. Intransitivity is infrequent and fails to promote annual plant coexistence without pairwise niche differences. *Ecology*, 98:1193-1200.
- 55.** **Cristina Bastias, Claire Fortunel**, Fernando Valladares, Christopher Baraloto, Raquel Benavides, William Cornwell, Lars Markesteijn, Alexandre A. de Oliveira, Geronimo Sansevero, **Marcel Vaz, Nathan Kraft**, 2017. Intraspecific leaf trait variability along a boreal-to-tropical community diversity gradient. *PLoS ONE*, 12:e0172495.
- 54.** Cyrille Violle, Wilfried Thuiller, Nicolas Mouquet, François Munoz, **Nathan Kraft**, Marc Cadotte, Stuart Livingstone, David Mouillot. Functional rarity: the ecology of outliers. *Trends in Ecology and Evolution*, 32:356-367.
- 53.** Thorsten Wiegand, María Uriarte, **Nathan Kraft**, Guochun Shen, Xugao Wang, Fangliane He, 2017. Spatially explicit metrics of species, functional and phylogenetic diversity: insights into plant community assembly processes. *Annual Review of Ecology, Evolution, and Systematics*, 48:329-351.
- 52.** Sarah Greenwood, Paloma Ruiz-Benito, Jordi Martínez-Vilalta, Francisco Lloret, Thomas Kitzberger, Craig Allen, Rod Fensham, Daniel C Laughlin, Jens Kattge, Gerhard Bönisch, **Nathan Kraft**, Alistair Jump, 2017. Tree mortality across biomes is promoted by drought intensity, lower wood density and higher specific leaf area. *Ecology Letters*, 20:539-553.
- 51.** **Nathan Kraft**. From ecological strategies to trait ecology. *The Bulletin of the Ecological Society of America*. 98:32-33. (commentary, with Mark Westoby)
- 50.** Erik Nelson, Matthew Helmus, Jeannine Cavender-Bares, Stephen Polasky, Jesse Lasky, Amy Zanne, William Pearse, **Nathan Kraft**, Daniela Miteva, William Fagan, 2016. Commercial plant production and consumption still follow the latitudinal gradient in species diversity despite economic globalization. *PLoS ONE*, 11:e0163002.
- 49.** **Claire Fortunel**, Renato Valencia, S Joseph Wright, Nancy Garwood, **Nathan Kraft**, 2016. Functional trait differences influence neighbourhood interactions in a hyperdiverse Amazonian forest. *Ecology Letters*, 19:1062-1070.
- 48.** Gregory Goldsmith, Naia Morueta-Holme, Brody Sandel, Eric Fitz, Samuel D Fitz, Brad Boyle, Nathan Casler, Kristine Engemann, Peter Jørgensen, **Nathan Kraft**, Brian McGill, Robert Peet, William Piel, Nick Spencer, Jens-Christian Svenning, Barbara Thiers, Cyrille Violle, Susan Wiser, Brian Enquist, 2016. Plant-O-Matic: a dynamic and mobile guide to all plants of the Americas. *Methods in Ecology and Evolution*. 7:960-965.

- 47.** Xugao Wang, Thorsten Wiegand, **Nathan Kraft**, Nathan Swenson, Stuart Davies, Zhanqing Hao, Robert Howe, Yiching Lin, Keping Ma, Xiangcheng Mi, Sheng-Hsin Su, I-Fang Sun, Amy Wolf, 2016. Stochastic dilution effects weaken deterministic effects of niche-based processes in species rich forests. *Ecology*, 97:347-360.
- 46.** Christopher Doughty, Adam Wolf, Naia Morueta-Holme, Peter Jørgensen, Brody Sandel, Cyrille Violle, Brad Boyle, **Nathan Kraft**, Robert Peet, Brian Enquist, Jens-Christian Svenning, Stephen Blake and Mauro Galetti, 2016. Megafauna extinction, tree species range reduction, and carbon storage in Amazonian forests. *Ecography*, 39:194-203.
- 45.** Kristine Engemann, Brody Sandel, Brian J. Enquist, Peter Møller Jørgensen, **Nathan Kraft**, Aaron Marcuse-Kubitza, Brian McGill, Naia Morueta-Holme, Robert K. Peet, Cyrille Violle, Susan Wisser and Jens-Christian Svenning, 2016. Patterns and drivers of plant functional group dominance across the Western Hemisphere: a macroecological re-assessment based on a massive botanical dataset. *Botanical Journal of the Linnean Society*, 180:141-160.
- 44.** Andrew Siefert, Cyrille Violle, Loïc Chalmandrier, Cécile H. Albert, Adrien Taudiere, Alex Fajado, Lonnie W. Aarssen, Christopher Baraloto, Marcos B. Carlucci, Marcus V. Cianciaruso, Vinícius de L. Dantas, Francesco de Bello, Leandro D. S. Duarte, Carlos R. Fonseca, Grégoire T. Freschet, Stéphanie Gaucherand, Nicolas Gross, Kouki Hikosaka, Benjamin Jackson, Vincent Jung, Chiho Kamiyama, Masatoshi Katabuchi, Steven W. Kembel, Emilie Kichenin, **Nathan Kraft**, Anna Lagerström, Yoann Le Bagousse-Pinguet, Yuanzhi Li, Norman Mason, Julie Messier, Tohru Nakashizuka, Jacob McC. Overton, Duane Peltzer, I. M. Pérez-Ramos, Valério D. Pillar, Honor C. Prentice, Sarah Richardson, Takehiro Sasaki, Brandon S. Schamp, Christian Schöb, Bill Shipley, Maja Sundqvist, Martin T. Sykes, Marie Vandewalle, David A. Wardle, 2015. A global meta-analysis of the relative extent of intraspecific trait variation in plant communities. *Ecology Letters*, 18:1406-1419.
- 43.** Rong Li, **Nathan Kraft**, Heng Li, 2015. Phylogenetic diversity and species richness in conservation planning within a global biodiversity hotspot. *Conservation Biology*, 29:1552-1562.
- 42.** Rong Li, **Nathan Kraft**, Jie Yang, Yuhua Wang, 2015. A phylogenetically informed delineation of floristic regions within a biodiversity hotspot in Yunnan, China. *Scientific Reports*, 5: article number 9396.
- 41.** **Nathan Kraft**, Oscar Godoy, Jonathan Levine, 2015. Functional traits and the multidimensional nature of species coexistence. *Proceedings of the National Academy of Science*, 112:797-802.
- 40.** Benjamin Blonder, David Nogués-Bravo, Michael Borregaard, John Donoghue II, Peter Jørgensen, **Nathan Kraft**, Jean-Philippe Lessard, Naia Morueta-Holme, Brody Sandel, Jens-Christian Svenning, Cyrille Violle, Carsten Rahbek, Brian Enquist, 2015.

Linking environmental filtering and disequilibrium to biogeography with a community climate framework. *Ecology*, 96:972-985.

**39. Nathan Kraft**, Peter Adler, Oscar Godoy, Emily James, Steve Fuller, Jonathan Levine, 2015. Community assembly, coexistence, and the environmental filtering metaphor. *Functional Ecology*, 29:592-599.

**38.** Mark Vellend, Diane Srivastava, Kathryn Anderson, Carissa Brown, Jill Jankowski, Elizabeth Kleynhans, **Nathan Kraft**, Alatheia Letaw, Andrew MacDonald, Janet Maclean, Isla Myers-Smith, Andrea Norris, Xinxin Xue, 2104. Assessing the relative importance of neutral stochasticity in ecological communities. *Oikos*, 123:1420-1430

**37.** Christine Lamanna, Benjamin Blonder, Cyrille Violle, **Nathan Kraft**, Brody Sandel, Irena Simova, John C. Donoghue II, Jens-Christian Svenning, Brian J. McGill, Brad Boyle, Vanessa Buzzard, Steven Dolins, Peter M. Jørgensen, Aaron Marcuse-Kubitza, Naia Morueta-Holme, Robert K. Peet, William Piel, Jim Regetz, Mark Schildhauer, Nick Spencer, Barbara M. Thiers, Susan K. Wisser, Brian J. Enquist, 2014. Functional trait space and the latitudinal diversity gradient. *Proceedings of the National Academy of Science*, 111:13745-13750.

**36.** Irena Simova, Cyrille Violle, **Nathan Kraft**, David Storch, Jens-Christian Svenning, Brad Boyle, John Donoghue, Peter Jorgensen, Brian McGill, Naia Morueta-Holme, Robert Peet, Susan Wisser, William Piel, Jim Regetz, Mark Shildhauer, Barbara Thiers, Brian Enquist, 2014. Shifts in trait means and variances in North American tree assemblages: species richness patterns are loosely related to the functional space. *Ecography*, 38:649-658.

**35. Nathan Kraft**, Gregory Crutsinger, Elisabeth Forrestal, and Nancy Emery, 2014. Functional trait differences and the outcome of community assembly: an experimental test with vernal pool annual plants. *Oikos*, 123:1391-1399.

**34.** Oscar Godoy, **Nathan Kraft**, Jonathan Levine, 2014. Phylogenetic relatedness and the determinants of competitive outcomes. *Ecology Letters*, 17:836-844.

*\*Faculty of 1000 recommended article*

**33.** Rafael Cardenas, Renato Valencia, Adriana Argoti, **Nathan Kraft**, Olivier Dangles. Plant traits predicting herbivory in a highly diverse Neotropical rainforest, 2014. *Journal of Ecology*, 102:939-952.

**32. Claire Fortunel**, C.E. Timothy Paine, Paul V. A. Fine, **Nathan Kraft** and Christopher Baraloto, 2014. Environmental factors predict community functional composition in Amazonian forests. *Journal of Ecology*, 102:145-155.

**31.** Naia Morueta-Holme, Brian Enquist, Brian McGill, Brad Boyle, Peter Jorgensen, Jeffery Ott, Robert Peet, Irena Simova, Lindsey Sloat, Barbara Theirs, Cyrille Violle, Susan Wisser, Nick Spencer, Steven Dollins, John Donoghue II, **Nathan Kraft**, Jim

Regetz, Mark Schildhauer, Jens-Christian Svenning, 2013. Habitat area and climate stability determine geographic variation in plant species range sizes. **Ecology Letters**, 16:1446-1454.

*\* featured as cover story*

**30. Nathan Kraft** and David D. Ackerly, 2013. The assembly of plant communities. In: The Plant Sciences- Ecology and the Environment, R. Monson, ed. Springer-Verlag, Berlin.

**29.** Jonathan Davies, Elizabeth Wolkovich, **Nathan Kraft**, Nicolas Salamin, Jenica Allen, Toby Ault, Julio Betancourt, Kjell Bolmgren, Elsa Cleland, Ben Cook, Theresa Crimmins, Susan Mazer, Gregory McCabe, Stephanie Pau, Jim Regetz, Mark Schwartz, Steven Travers, 2013. Phylogenetic conservatism in plant phenology. **Journal of Ecology**, 101:1520-1530.

**28.** Francesco Pomati, **Nathan Kraft**, Thomas Posch, Bettina Eugster, Jukka Jokela, Bas W. Ibelings, 2013. Size and fluorescence related traits are under selection by biotic and abiotic environmental changes in spring bloom phytoplankton communities of Lake Zurich (Switzerland). **PLoS ONE**, 8:e71677.

**27.** Peter Adler, Alex Fajardo, Andrew Kleinhesselink, **Nathan Kraft**, 2013. Trait-based tests of coexistence mechanisms. **Ecology Letters**, 16:1294-1306.

*\*Faculty of 1000 recommended article*

**26.** Adam B. Smith, Brody Sandel, **Nathan Kraft**, Susan Carey, 2013. Characterizing scale-dependent community assembly using the functional-diversity -area relationship. **Ecology**, 94: 2392-2402.

**25.** Hiroshi Tomimatsu, Takehiro Sasaki, Hiroko Kurokawa, Jon R. Bridle, Colin Fontaine, Jun Kitano, Daniel B. Stouffer, Mark Vellend, T. Martijn Bezemer, Tadashi Fukami, Elizabeth A. Hadly, Marcel G.A. van der Heijden, Masakado Kawata, Sonia Kéfi, **Nathan Kraft**, Kevin S. McCann, Peter J. Mumby, Tohru Nakashizuka, Owen L. Petchey, Tamara N. Romanuk, Katharine N. Suding, Gaku Takimoto, Jotaro Urabe, Shigeo Yachi, 2013. Sustaining ecosystem functions in a changing world: a call for an integrated approach. **Journal of Applied Ecology**, 50:1124-1130.

**24.** Susan J. Mazer, Steven E. Travers, Benjamin I. Cook, T. Jonathan Davies, Kjell Bolmgren, **Nathan Kraft**, Nicolas Salamin, David W. Inouye. 2013. Flowering date of taxonomic families predicts phenological sensitivity to temperature: implications for forecasting the effects of climate change on unstudied taxa. **American Journal of Botany**, 100:1381-1397.

**23.** Ben Cook, Elizabeth Wolkovich, Jonathan Davies, Toby Ault, Julio Betancourt, Jenica Allen, Kjell Bolmgren, Elsa Cleland, Theresa Crimmins, **Nathan Kraft**, Lesley Lancaster, Susan Mazer, Gregory McCabe, Brian McGill, Camille Parmesan, Stephanie Pau, Jim Regetz, Nicholas Salamin, Mark Schwartz, Steven Travers, 2012.

Sensitivity of spring phenology to warming across temporal and spatial climate gradients in two independent databases. *Ecosystems*, 15:1283-1294.

**22.** E. M. Wolkovich, B. I. Cook, J. M. Allen, T. M. Crimmins, S. Travers, S. Pau, J. Regetz, T. J. Davies, J. L. Betancourt, **Nathan Kraft**, T. R. Ault, K. Bolmgren, S. J. Mazer, G. J. McCabe, B. J. McGill, C. Parmesan, N. Salamin, M. D. Schwartz, E. E. Cleland, 2012. Warming experiments underpredict plant phenological responses to climate change. *Nature*, 485:494-497.

*\*Faculty of 1000 recommended article*

*\*News coverage on BBC, CTV (Canada), Sveriges Radio, Frankfurter Allemagne*

**21. Nathan Kraft**, Nathan Sanders, James Stegen, Marti Anderson, Tom Crist, Howard Cornell, Mark Vellend, Jonathan Chase, Liza Comita, Kendi Davies, Amy Freestone, Susan Harrison, Brian Inouye, Jonathan Meyers, Nathan Swenson, 2012. Response to comments on “Disentangling the drivers of beta diversity along latitudinal and elevational gradients”. *Science*, 335:1573.

**20.** J. C. Stegen, A. L. Freestone, T. O. Crist, M. J. Anderson, J. M. Chase, L. S. Comita, H. V. Cornell, K. F. Davies, S. P. Harrison, A. H. Hurlbert, B. D. Inouye, **Nathan Kraft**, J. A. Myers, N. J. Sanders, N. G. Swenson, M. Vellend, 2012. Stochastic and deterministic drivers of spatial and temporal turnover in breeding bird communities. *Global Ecology and Biogeography*, 22:202-212.

**19.** Travis Ingram, Richard Svanback, **Nathan Kraft**, Pavel Kratina, Laura Southcott, Dolph Schluter, 2012. Intraguild predation drives evolutionary niche shift in threespine stickleback. *Evolution*, 66:1819-1832.

*\*Selected for ESA’s 2012 Frost Award to T. Ingram.*

**18.** Bradford Hawkins, Christy McCain, Jonathan Davies, Lauren Buckley, Brian Anacker, Howard Cornell, Ellen Damschen, John-Avid Grytnes, Susan Harrison, Robert Holt, **Nathan Kraft** and Patrick Stephens, 2012. Different evolutionary histories underlie congruent species richness gradients of birds and mammals. *Journal of Biogeography*, 39:825-841.

**17.** Jonathan Davies, **Nathan Kraft**, Nicolas Salamin and Elizabeth Wolkovich, 2012. Incompletely resolved phylogenetic trees inflate estimates of phylogenetic conservatism. *Ecology*, 93:242-247.

**16.** Nathan Swenson, Brian Enquist, Jason Pither, Andrew Kerkhoff, Brad Boyle, Michael Weiser, James Elser, William Fagan, Jimena Forero-Montaña, Nikolaos Fyllas, **Nathan Kraft**, Jeffrey Lake, Angela Moles, Sandra Patiño, Oliver Phillips, Charles Price, Peter Reich, Carlos Quesada, James Stegen, Renato Valencia, Ian Wright, S. Joseph Wright, Sandy Andelman, Peter Jørgensen, Thomas Lacher Jr., Abel Monteagudo, M. Percy Núñez-Vargas, Rodolfo Vasquez-Martínez, Kristen Nolting, 2012. The biogeography and filtering of woody plant functional diversity in North and South America. *Global Ecology and Biogeography*, 21:798-808.

**15. Nathan Kraft**, Liza Comita, Jon Chase, Nathan Sanders, Nathan Swenson, Thomas Crist, James Stegen, Mark Vellend, Brad Boyle, Marti Anderson, Howard Cornell, Kendi Davies, Amy Freestone, Brian Inouye, Susan Harrison, Jonathan Myers, 2011. Disentangling the drivers of beta diversity along latitudinal and elevational gradients. *Science*, 333:1755-1758.

*\* selected as cover story; discussed in "Taking the Measure of Madidi", Science, 7/20/2012.*

**14. Stephanie Pau**, Elizabeth Wolkovich, Benjamin Cook, Jonathan Davies, **Nathan Kraft**, Kjell Bolmgren, Julio Betancourt and Elsa Cleland, 2011. Predicting phenology: Integrating climatology and evolution to improve forecasting in ecology. *Global Change Biology*, 17:3633-3643.

**13. Jonathan Chase**, **Nathan Kraft**, Kevin Smith, Mark Vellend, Brian Inouye, 2011. Using null models to disentangle variation in community dissimilarity from variation in alpha-diversity. *Ecosphere*, 2:article 24.

**12. Daniel Peppe**, Dana Royer, Bárbara Cariglino, Sofia Oliver, Sharon Newman, Elias Leight, Grisha Enikolopov, Margo Fernandez-Burgos, Fabiany Herrera, Jonathan Adams, Edwin Correa, Ellen Currano, J. Mark Erickson, Luis Felipe Hinojosa, John Hoganson, Ari Iglesias, Carlos Jaramillo, Kirk Johnson, Gregory Jordan, **Nathan Kraft**, Elizabeth Lovelock, Christopher Lusk, Ülo Niinemets, Josep Peñuelas, Gillian Rapson, Scott Wing, and Ian Wright, 2011. Sensitivity of leaf size and shape to climate: global patterns and paleoclimatic applications. *New Phytologist*, 190:724-739.

**11. Marti Anderson**, Thomas Crist, Jonathan Chase, Mark Vellend, Brian Inouye, Amy Freestone, Nathan Sanders, Howard Cornell, Liza Comita, Kendi Davies, Susan Harrison, **Nathan Kraft**, James Stegen and Nathan Swenson, 2011. Navigating the multiple meanings of beta diversity: a roadmap for the practicing ecologist. *Ecology Letters*, 14:19-28.

*\*Faculty of 1000 recommended article*

**10. Nathan Kraft**, Margaret Metz, Richard Condit, and Jerome Chave, 2010. The relationship between wood density and mortality in a global tropical forest dataset. *New Phytologist*, 188:1124-1136.

**9. Nathan Kraft** and David Ackerly, 2010. Functional trait and phylogenetic tests of community assembly across spatial scales in an Amazonian forest. *Ecological Monographs*, 80:401-422.

**8. Nathan Kraft**, Bruce Baldwin and David Ackerly, 2010. Range size, taxon age, and hotspots of neoendemism in the California flora. *Diversity and Distributions*, 16:403-413.



7. Brody Sandel, Leah Goldstein, **Nathan Kraft**, Jordan Okie, Michal Shuldman, David Ackerly, Elsa Cleland and Katharine Suding, 2010. Contrasting trait responses in plant communities to experimental and geographic variation in precipitation. **New Phytologist**, 188:565–575.

6. S. Joseph Wright, Kaoru Kitajima, **Nathan Kraft**, Peter Reich, Ian Wright, Daniel Bunker, Richard Condit, James Dalling, Stuart Davies, Sandra Díaz, Bettina Engelbrecht, Kyle Harms, Stephen Hubbell, Christian Marks, Maria Ruiz-Jaen, Cristina Salvador, Renato Valencia, and Amy Zanne, 2010. Functional traits and the growth-mortality tradeoff in tropical trees. **Ecology**, 91:3664-3674.

5. Lauren Buckley, Jonathan Davies, David Ackerly, **Nathan Kraft**, Susan Harrison, Brian Anacker, Howard Cornell, Ellen Damschen, John-Avid Grytnes, Bradford Hawkins, Christy McCain, Patrick Stephens, John Wiens, 2010. Phylogeny, niche conservatism, and the latitudinal diversity gradient in mammals. **Proceedings of the Royal Society B**, 277:2131-2138.

4. David Ackerly, Scott Loarie, Will Cornwell, Stu Weiss, Healy Hamilton, Ryan Branciforte and **Nathan Kraft**, 2010. The geography of climate change: implications for conservation biogeography. **Diversity and Distributions**, 16:476-487.

3. **Nathan Kraft** and David Ackerly, 2009. Response to comment on "Functional traits and niche-based tree community assembly in an Amazonian forest." **Science**, 324:1015-d.

2. **Nathan Kraft**, David Ackerly, and Renato Valencia, 2008. Functional traits and niche-based tree community assembly in an Amazonian forest. **Science**, 322:580-582.

*\*Faculty of 1000 recommended article*

*\*Discussed in "On the origin of Ecological Structure", **Science** 10/2/09; focus of "Voyage of the Beagle" podcast 11/22/2009.*

1. **Nathan Kraft**, Will Cornwell, Cam Webb and David Ackerly, 2007. Trait conservatism, community assembly, and the phylogenetic structure of ecological communities. **The American Naturalist**, 170:271-283.

*\*Received the 2008 President's Award from the American Society of Naturalists for the best paper published in 2007 in **The American Naturalist**.*

### **Reports:**

1. S. Joseph Wright, Daniel Bunker, James Dalling, Stuart Davies, Sandra Díaz, Bettina Engelbrecht, Kyle Harms, Kaoru Kitajima, **Nathan Kraft**, Christian Marks, Peter Reich, Renato Valencia, Ian Wright and Amy Zanne, 2006. Towards a functional trait based research program within the Center for Tropical Forest Science. Smithsonian Tropical Research Institute, Panama.

**Awards and Recognition:**

- **Faculty Staff Partnership Award**, UCLA Ecology and Evolutionary Biology 2018. For efforts to promote effective collaboration between faculty and staff in leading the department.
- **Highly Cited Researchers 2015, 2016, 2017**. Thompson Reuters, for being among the top 3,000 researchers globally (top 132 in "Environment/Ecology" field) in producing highly cited papers between 2003-2017.
- **Frost Award, Ecological Society of America (ESA) Aquatic Ecology Section**, 2012. Awarded to coauthor Travis Ingram for Ingram, Svanback, Kraft, Kratina, Southcott and Schluter, 2012, *Evolution*.
- **Killam Postdoctoral Fellow Research Prize, University of British Columbia**, 2012. For outstanding postdoctoral research while at UBC.
- **President's Award, American Society of Naturalists**, 2008. For best paper published in *the American Naturalist* in 2007.
- **Outstanding Graduate Student Instructor Award**, Integrative Biology, UC Berkeley, April 2007.
- **Department Teaching Award**, Biological Sciences, Stanford, June 2004.
- **Honorable Mention**, National Science Foundation Graduate Research Fellowship Competition, 2003, 2004, 2005.
- **Biology Prize**, Biology Department, Brown University, May 2001
- **Gates Leadership Award**, Colorado Outward Bound School, Summer 2001. In recognition of leadership, community development and academic achievement.

**Grants and Fellowships:**

- 2015, National Science Foundation, Division of Environmental Biology, Population and Community Ecology program. "Functional traits and the mechanisms of species coexistence in an annual plant community." PI: Nathan Kraft, Co-PI Jonathan Levine. \$530,000, 2015-2019.
- 2015, National Science Foundation, Office of International and Integrative Activities. "US-Costa Rica Planning Visit: Evolution of Functional Traits in the Melastomataceae." PI: Ned Fetcher; Co-PI's: Frank Almeda, Nathan Kraft, Fabian Michelangeli. \$26,975.
- 2009, Biodiversity Postdoctoral Fellowship, The Biodiversity Research Centre, University of British Columbia. October 2009 - September 2011. \$94,000.
- 2009, "Functional diversity and species coexistence in tropical forests", 2-year

postdoctoral fellowship, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. \$82,000. Offered and declined.

- Student Travel Award, 2008, Sacker Colloquia, National Academy of Sciences, \$300.
- Center for Tropical Forest Science, Smithsonian Tropical Research Institution, November 2007, \$14,000 “The role of seedling functional traits in forest dynamics and community assembly at Yasuní and BCI.” Awarded to Nancy Garwood, Nathan Kraft and Margaret Metz.
- Center for Tropical Forest Science, Smithsonian Tropical Research Institution, November 2006, \$10,000 “A leaf trait database for the Yasuní Forest Dynamics Plot.”
- Summer research grants, Integrative Biology, Univ. of California, Berkeley, May 2006, 2007, 2008, \$9,500 total.
- NSF Research Experience for Undergraduates, 2000, Shoals Marine Laboratory.
- Hughes Advanced Research Fellowship, Brown University, 2000.

#### **Mentoring:**

#### **Postdoctoral Scholars:**

- Dr. Kristin Powell, SESYNC postdoctoral fellow (October 2013- June 2014) *Currently:* Program Manager, Center for Tropical Forest Science, Smithsonian Institution.
- Dr. Claire Fortunel, UMD and UCLA (2014- 2017) *Currently:* Research Scientist, UMR AMAP (Joint Research Unit for Botany and Modeling of Plant Architecture and Vegetation), IRD (French National Research Institute for Sustainable Development) Montpellier, France.
- Dr. Lei Chen, UMD and UCLA, China Scholarship Council fellow (June 2015- June 2016) *Currently:* Assistant professor, Institute of Botany, Chinese Academy of Sciences.
- Dr. Andrew Kleinhesselink, UCLA (2017- present)

#### **Doctoral Students:**

- Ian McFadden, 2012 - *\*awarded NSF Graduate Research Fellowship*
- Gaurav Kandlikar, 2014- *\*awarded NSF Graduate Research Fellowship and UMD Flagship Fellowship*
- Marcel Vaz, 2014- *\*awarded Brazilian Ciência sem Fronteiras Fellowship*
- Mary Van Dyke 2017-
- Kenji Hayashi 2018-

#### **Visiting Scientists:**

- Dr. Jeanne Osnas, postdoc in Lichstien Lab, University of Florida (2013-2014).
- Dr. Rong Li, associate professor, Kunming Institute of Botany, China. Chinese Scholarship Fund visiting scholar (2013-2014).
- Dr. Benoit Parmentier, postdoc in McGill Lab, Univ. of Maine (2014-2015).

Dr. Yi Ding, professor, Institute of Forest Ecology, Environment and Protection,  
Chinese Academy of Forestry, Beijing, China. (2016-2017)

**Visiting doctoral students:**

Marcos Carlucci, Duarte lab, UFRGS, Brazil, CAPES fellowship (spring 2014).  
Cristina Crespo Bastias, Valladares lab, Museo Nacional de Ciencias Naturales,  
Spain (fall 2014).

**Graduate Student Committees:**

**UCLA EEB doctoral committees:**

Emily Ryznar, advisor: Peggy Fong  
Camila Medeiros, advisor: Lawren Sack  
Guilherme Casas Gonçalves, advisor Priyanga Amarasekare  
Lauren Smith, advisor: Peggy Fong

**UCLA EEB first year committees:**

Ioana Anghel, advisor: Felipe Zapata  
Alec Baird, advisor: Lawren Sack  
Marvin Brown, advisor: Lawren Sack  
Shalanda Greir: advisor: Peggy Fong  
Regina Zweng, advisor: Peggy Fong

**University of Maryland doctoral committees (BEES program unless stated):**

Cora Ann Johnstone, advisor: Dan Gruner  
Juannan Zhou, advisors: Michele Dudash and Charlie Fenster  
Jason Berg, advisor: Michele Dudash  
Chris Frye, UMD Plant Sciences Ph.D., advisor: Maile Neel  
Carlos Silva, UMD Geography Ph.D., advisor: Jim Kellner  
Silvia Alvarez, advisor: Bill Fagan  
Carly Muletz, advisor: Karen Lips  
Grace DiRenzo, advisor: Karen Lips  
Elise Larson, advisor: Bill Fagan  
Andrew Foss-Grant, advisor: Bill Fagan.

**Elsewhere:**

Fons Van Der Plas, University of Groningen, Netherlands Ph.D., Advisor: Han Olff.  
Amy Milo, George Washington University Ph.D., Advisor: Amy Zanne.  
Georges Kunstler, Iresta Grenoble, France- Habilitation.  
Barnabas Haruna Daru, University of Johannesburg, South Africa. Advisors: Michelle  
Van Der Bank and T. Jonathan Davies.  
Sierra Lauman, Cal Poly Pomona, M.S., advisor: Erin Questad

**Undergraduate research mentoring:**

**UCLA**

*Summer 2016:* Angela Chen.  
*Spring 2016:* Clare Camilleri, Grace Kumaishi, Vivian Griffey.

*Fall 2016:* Clare Camilleri, Grace Kumaishi, Vivian Griffey.

*Winter 2017:* Bastien Dehault, Jennifer Tran, Clare Camilleri, Grace Kumaishi.

*Spring 2017:* Aoife Galvin.

*Summer 2017:* Xinyi Yan.

*Fall 2017:* Megan Clark, Anmol Dhaliwal, Aoife Galvin, Heather Lindsey, Brooke Shimasaki, Xinyi Yan, Erick Yeh.

*Winter 2018:* Anmol Dhaliwal, Heather Lindsey, Cindy Nguyen, Xinyi Yan, Brooke Shimasaki.

*Spring 2018:* Xinyi Yan, Megan Clark, Anmol Dhaliwal.

### ***University of Maryland***

Samantha Cruz (F2014), Cara Heilveil (S2015), Ali Sanz (F2015).

### ***As postdoc (UBC) or graduate student (UC Berkeley)***

Kylie McLeod, University of British Columbia, NSERC Undergraduate Student Research Awards (USRA) Program, summer 2010. With Mark Vellend.

Tania Aftandilians, UC Berkeley Undergraduate Research Apprentice Program (URAP), 2007-2008.

### **Teaching:**

#### ***Lead instructor- UCLA:***

**Winter 2018:** EEB 200B: Ecology (graduate seminar, enrollment 15)

**Fall 2017** EEB 161: Plant Ecology. (enrollment 49).

**Winter 2017:** EEB 200B: Ecology (graduate seminar, enrollment 6)

**Fall 2016** EEB 187(1): Plant Ecology. (enrollment 52).

**Spring 2016** EEB 297 (seminar 6): Functional and ecophysiological approaches to population and community ecology. (Graduate seminar, enrollment 10)

#### ***Lead instructor- University of Maryland:***

**Fall 2015** BSCI 361: Principles of Ecology. (undergraduate lecture course, enrollment 52)

**Spring 2015** BIOL6080: Coexistence in Ecological Communities. (graduate seminar; enrollment 10)

**Fall 2014** BSCI 361: Principles of Ecology. (undergraduate lecture course, enrollment 41)

**Fall 2013** BIOL 608E: Community Ecology: Foundations and Frontiers. (graduate seminar, enrollment 15)

**Spring 2013** BSCI 361: Principles of Ecology. (undergraduate lecture course, enrollment 67)

#### ***Teaching Assistant- Stanford, UC Berkeley and Boston University:***

**Fall 2008** UC Berkeley, Biology 154: Plant ecology.

**Spring 2008**, UC Berkeley, Biology 250: Plant functional ecology and global change. Distributed graduate seminar run through NCEAS.

**Fall 2007**, UC Berkeley, Biology 153: Population and Community Ecology.

**Spring 2006**, UC Berkeley, Biology 1B: Introductory biology.

**Fall 2005**, UC Berkeley, Biology 1B: Introductory biology.

**Spring 2004**, Stanford University. Bio 43: Plant physiology, ecology and evolution.

**Fall 2002**, Boston University Tropical Ecology Program, Ecuador (full semester program, four courses with extensive mentoring of independent research projects).

**Guest lectures:**

*UCLA:*

Fall 2016 "Phylogenetic relatedness and coexistence" **EEB 200A: Evolution**

Winter 2017 "Forest community assembly in the Ecuadorian Amazon"

**SocGen188(2): The Amazon in the Anthropocene**

Winter 2017 "Plant-soil feedbacks and species coexistence in annual plant communities" **MIMG 109AL: Research Immersion Laboratory in Microbiology**

Fall 2017 "Plant-soil feedbacks and species coexistence in annual plant communities" **MIMG 109AL: Research Immersion Laboratory in Microbiology**

Winter 2018 "Global Change (from a plant ecology perspective)" **EEB 191(1):**

**Biology and Social Justice**

*University of Maryland*

Fall 2012 "Landscape ecology" - **BSCI 361: Principles of Ecology.**

*University of British Columbia*

Fall 2011 "Neutral Theory in Community Ecology" - **BIOL 407: Plant Ecology.**

Fall 2011 "How do you study a community with 1,100 species?" - **Zoology 502: Skills and Concepts for Advanced Ecology.**

Fall 2010 "Implementing null models in R" - **BIOL 548B: Stochasticity in Community Ecology.**

Spring 2010 "Niches, null models, and tropical forest dynamics" - **Zoology 502: Skills and Concepts for Advanced Ecology.**

*University of California, Berkeley*

Fall 2008, "Diversity and coexistence" - **IB 154: Plant ecology.**

Spring 2008, "Introduction to R"/ "Trait-based community analyses in R" - **NCEAS Distributed Graduate Seminar: "Ushering in a new era of functional ecology: Dynamics in a changing environment"**, UC Berkeley + 4 other campuses.

Fall 2007, "Nonequilibrium communities" - **IB 153: Population and community ecology.**

**Scientific Presentations:**

*Invited Departmental Seminars:*

2018 Brigham Young University; Biology. *Student invited speaker.*

2018 University of California, San Diego; Ecology, Behavior and Evolution.

2018 University of California, Los Angeles; Geography.

2017 California State Polytechnic University, Pomona; Biological Sciences.

2016 Rancho Santa Ana Botanical Garden, Claremont, California.

2016 Los Angeles County Natural History Museum, Los Angeles, California.

- 2016 University of Minnesota, Ecology and Evolutionary Biology, *postdoc invited speaker*
- 2016 sDiv, Leipzig, Germany
- 2015 University of Washington; Biology, *Student-Invited Edmondson Lecture*.
- 2015 UMD Center for Environmental Science, Appalachian Laboratory.
- 2015 University of North Carolina, Chapel Hill; Ecology Seminar Series.
- 2015 Helmholtz Zentrum für Umweltforschung (UFZ); Department of Ecological Modeling, Leipzig, Germany.
- 2015 UCLA Department of Ecology and Evolutionary Biology
- 2014 Michigan State University; Plant Biology.
- 2014 University of Sherbrooke, Department of Biology, Quebec, Canada.
- 2013 Center for Tropical Forest Science annual workshop, Front Royal VA.
- 2013 George Washington University, Biological Sciences.
- 2013 University of California, Davis, Evolution and Ecology Department.
- 2013 Univ. California, Santa Barbara, Ecology, Evolution and Marine Biology.
- 2012 Columbia University, E3B Department.
- 2011 University of Chicago, Department of Ecology and Evolution.
- 2011 Stanford University, Department of Biological Sciences.
- 2011 University of Maryland, Department of Biology.
- 2011 University of British Columbia, Departments of Botany and Zoology.
- 2011 University of Pittsburg, Department of Biology.
- 2011 Washington University in St. Louis, Department of Biology.
- 2011 Tulane University, Department of Ecology and Evolutionary Biology.
- 2011 Princeton University, Department of Ecology and Evolutionary Biology.
- 2010 Stony Brook University, Ecology and Evolution Department.
- 2010 University of Victoria, Department of Biology.
- 2010 Rice University, Department of Ecology and Evolutionary Biology.
- 2009 University of Toronto, Department of Ecology and Evolutionary Biology.
- 2009 University of California, Berkeley, Integrative Biology.
- 2009 University of California, Davis, Center for Population Biology.
- 2006 Pontificia Universidad Católica del Ecuador, Dept. Biology.

*Symposia organized:*

- 1. Kraft, N.** (organizer) 2017. Linking Functional Traits to Species Coexistence in Changing Environments (Symposia). *Ecological Society of America*, Portland, OR.

*Talks in organized symposia:*

- 14. Kraft, N.** 2017. One trait fits all? Predicting coexistence of annual plants across spatial and temporal scales. *Ecological Society of America*, Portland, OR.

- 13. Fortunel, C., N. Kraft, N. Norden, and C. E. T. Paine.** 2016. Evaluating the contribution of ontogeny to intraspecific variability in functional traits of tropical trees. *Association for Tropical Biology and Conservation*, Montpellier, France.

- 12. Kraft, N.** 2016. Are tropical tree habitat specialists less variable in key functional traits than habitat generalists? *Association for Tropical Biology and Conservation*,

Montpellier, France.

11. Enquist, B. J., B. Boyle, B. Sandel, J. C. Donoghue, J. Regetz, I. Simova, J. Svenning, B. J. McGill, R. K. Peet, P. Jorgensen, B. M. Thiers, M. Schildhauer, S. Smith, C. Hinchliff, C. Violle, N. Spencer, N. Morueta-Holme, A. Marcuse-Kubitza, **N. Kraft**, J. E. Ott, M. Narro, and S. K. Wisser. 2015. The macroecology of botanical diversity: History, new insights and the central informatics barriers. *Ecological Society of America*, Baltimore, MD.
10. Zanne, A. E., **N. Kraft**, B. Sandel, and C. Webb. 2015. Frontiers in plant evolutionary ecology in the era of big botanical datasets. *Ecological Society of America*, Baltimore, MD.
9. Cavender-Bares, J., W. F. Fagan, M. R. Helmus, **N. Kraft**, J. R. Lasky, I. Munoz, E. J. Nelson, D. J. Nowak, J. O'Neil-Dunne, W. D. Pearse, S. Polasky, M. Shelley, and A. E. Zanne. 2014. Evolutionary hot spots and temporal trends in the ecosystem services derived from plants. *Ecological Society of America*, Sacramento, CA.
8. **Kraft, N.** 2013. Functional trait differences and species coexistence in an annual plant community. *Ecological Society of America*, Minneapolis, MN.
7. **Kraft, N.** 2013. Towards a mechanistic understanding of functional diversity patterns within communities. *International Biogeography Society*, Miami, FL.
6. **Kraft, N.** 2012. Community assembly in tropical forests: insights from traits, turnover and phylogenetic structure. *Community Assembly Symposium*, EAWAG Aquatic Research Laboratory, Switzerland.
5. **Kraft, N.** 2011. Traits, turnover and the mystery of tropical forest diversity. *58<sup>th</sup> Annual Systematics Symposium*, Missouri Botanical Garden
4. **Kraft, N.** 2010. Trait neighborhoods, phylogenetic history, and variation in growth and mortality through time in neotropical forests. *Association for Tropical Biology and Conservation*, Bali, Indonesia.
3. **Kraft, N.** 2010. Functional traits, evolutionary history, and the dynamics of plant communities. *Ecosystem Stability and Robustness Symposium*, Tohoku University, Sendai, Japan.
2. Ackerly, D. D. and **N. Kraft**. 2009. Plant traits, community assembly and coexistence. *Ecological Society of America*, Albuquerque, NM.
1. **Kraft, N.**, R. Valencia, and D. D. Ackerly. 2009. Community assembly of an Amazonian forest: what does a phylogenetic perspective add? *Ecological Society of America*, Albuquerque, NM.



Contributed presentations at scientific meetings:

28. Freise, A. C., **G. S. Kandlikar**, E. E. Curd, **N. J. B. Kraft**, R. Meyer, and J. Moberg Parker. 2018. Collaborations between a course-based undergraduate research experience, faculty-driven research, and a UC-Wide citizen science project enhance curriculum development and student opportunities. ***Society for the Advancement of Biology Education Research (SABER) West***, Irvine, CA.
27. **Kandlikar, G. S.**, J. M. Levine, **N. Kraft**. 2018. Functional traits and the drivers of plant species coexistence across a heterogeneous landscape. ***California Native Plant Society***, Los Angeles, CA.
26. **Van Dyke, M. N.**, **G. S. Kandlikar**, **A. R. Kleinhesselink**, J. M. Levine, **N. Kraft**. 2017. Do competitors drive intraspecific shifts in plant functional traits? An experimental test with serpentine annual plants. ***Ecological Society of America***, Portland, OR.
25. Petry, W. K., **N. Kraft**, **G. S. Kandlikar**, O. Godoy, and J. M. Levine. 2017. Apparent competition through granivores impacts plant coexistence. ***Ecological Society of America***, Portland, OR.
24. Morueta-Holme, N., N. Heller, **N. Kraft**, B. McLaughlin, E. Riordan, S. Weiss, and D. D. Ackerly. 2017. Using species distribution models in conservation management: more barriers than opportunities? ***International Biogeography Society***, Tuscon, AZ.
23. **McFadden, I. R.**, R. Valencia, and **N. Kraft**. 2017. Drought tolerance and dispersal limitation jointly shape community structure in an aseasonal Amazonian forest. ***Ecological Society of America***, Portland, OR.
22. **McFadden, I. R.**, B. Sandel, C. Tsirogiannis, B. J. Enquist, B. Boyle, B. J. McGill, R. K. Peet, M. Schildhauer, P. Jorgensen, N. Morueta-Holme, J. Svenning, B. M. Thiers, C. Violle, S. K. Wisser, R. Condit, S. Dolins, J. C. Donoghue, W. Piel, N. Spencer, A. Marcuse-Kubitza, J. Regetz, and **N. Kraft**. 2017. Climate drives latitudinal and elevational beta diversity gradients across the Americas through elevated tropical speciation rates. ***International Biogeography Society***, Tuscon, AZ.
21. **Kandlikar, G. S.**, J. M. Levine, **N. Kraft**. 2017. Functional traits and the drivers of plant species coexistence across a heterogeneous landscape. ***Ecological Society of America***, Portland, OR.
20. **Griffey, V. S.**, **I. R. McFadden**, T. W. Gillespie, N. Pinto, and **N. Kraft**. 2017. Species richness and topoclimatic influences on forest canopy height across the Americas. ***Ecological Society of America***, Portland, OR.
19. **Fortunel, C.**, R. Valencia, S. J. Wright, N. Garwood, and **N. Kraft**. 2016. Functional trait differences influence neighborhood interactions in a hyperdiverse Amazonian forest. ***Association for Tropical Biology and Conservation***, Montpellier, FR.

18. **Chen, L., N. Kraft**, X. Mi, X. Liu, H. Ren, Y. Wang, J. Chen, and K. Ma. 2016. Neighborhood interactions mediate seedling demographic responses to recent climate change in a subtropical forest. *Ecological Society of America*, Fort Lauderdale, FL.
17. Simova, I., B. Sandel, C. Violle, J. Svenning, J. C. Donoghue li, B. Boyle, N. Morueta-Holme, **N. Kraft**, B. J. McGill, and B. J. Enquist. 2015. Functional traits and global productivity gradient: can we predict ecosystem processes using plant assemblage composition? *International Biogeography Society*, Bayreuth, Germany.
16. **Kandlikar, G. S., M. C. Vaz**, G. Avalos, R. Cordero, F. Michelangeli, R. Kreibel, G. Vargas, N. Fetcher, and **N. Kraft**. 2015. High phylogenetic but low functional turnover of melastomes along an elevational gradient. *Ecological Society of America*, Baltimore, MD.
15. **Fortunel, C.**, R. Valencia, S. J. Wright, N. Garwood, and **N. Kraft**. 2015. Neighborhood interactions and functional trait differences in a hyperdiverse Amazonian forest. *Ecological Society of America*, Baltimore, MD.
14. Blonder, B. W., D. Nogues-Bravo, M. K. Borregaard, J. C. Donoghue li, P. Jorgensen, **N. Kraft**, J.-P. Lessard, N. Morueta-Holme, B. Sandel, J. Svenning, C. Violle, C. Rahbek, and B. J. Enquist. 2015. Linking environmental filtering and disequilibrium to biogeography with a community climate framework. *Ecological Society of America*, Baltimore, MD.
13. Simova, I., C. Violle, J. Svenning, **N. Kraft**, B. Boyle, J. C. Donoghue li, P. Jorgensen, B. J. McGill, R. K. Peet, N. Morueta-Holme, B. M. Thiers, S. K. Wisser, and B. J. Enquist. 2014. Geographical patterns of functional trait means and variances of tree and herbaceous plant assemblages across the New World. *Ecological Society of America*, Sacramento, CA.
12. **Powell, K. I. and N. Kraft**. 2014. A scale-dependent framework for predicting losses and gains in ecosystem functions from shifts in biodiversity patterns. *Ecological Society of America*, Sacramento, CA.
11. Morueta-Holme, N., B. Sandel, B. J. McGill, P. Jorgensen, **N. Kraft**, J. E. Ott, R. K. Peet, I. Simova, C. Violle, J. C. Donoghue li, B. J. Enquist, and J. Svenning. 2014. Geographic variation in the factors controlling plant species ranges across the New World. *Ecological Society of America*, Sacramento, CA.
10. **Fortunel, C.**, R. Valencia, and **N. Kraft**. 2014. Competitive interactions between tropical trees. *Ecological Society of America*, Sacramento, CA.
9. **Osnas, J. L. D.**, J. Lichstein, K. Kitajima, S. J. Wright, S. Pacala, P. B. Reich, and **N. Kraft**. 2013. Leaf trait area- and mass-proportionality between and within tropical tree species, across and within forest canopies. *Ecological Society of America*, Minneapolis, MN.
8. Godoy, O., **N. Kraft**, and J. M. Levine. 2013. Phylogeny, niche differences, and the outcome of competition. *Ecological Society of America*, Minneapolis, MN.

7. Blonder, B. W., D. Nogues-Bravo, C. Rahbek, B. J. Enquist, B. Boyle, J. C. Donoghue li, R. Condit, R. K. Peet, S. Dolins, M. Schildhauer, B. M. Thiers, B. J. McGill, P. Jorgensen, M. Narro, J. Regetz, C. Violle, I. Simova, L. L. Sloat, W. Piel, **N. J. B. Kraft**, J. Svenning, N. Morueta-Holme, N. Spencer, S. K. Wiser, J. E. Ott, B. Dobrin, S. Andelman, and K. E. Jensen. 2013. Assembly of plant communities in climate space. *International Biogeography Society*, Miami, FL.
6. Simova, I., C. Violle, **N. Kraft**, D. Storch, B. Boyle, J. C. Donoghue li, and B. J. Enquist. 2012. Scale-dependent trait filtering of woody diversity in North America. *Ecological Society of America*, Portland, OR.
5. **Kraft, N.** 2011. Intraspecific trait variation and the intensity of species interactions. Ecological Society of America, Austin, TX.
4. Sandel, B., L. J. Goldstein, **N. J. B. Kraft**, J. G. Okie, M. I. Shuldman, D. D. Ackerly, E. E. Cleland, and K. N. Suding. 2009. Contrasting predictions of experimental and observational studies of the response of plant communities to changing precipitation. *Ecological Society of America*, Albuquerque, NM.
3. **Kraft, N.**, R. Valencia and D. Ackerly, 2008. Functional traits and niche-based community assembly in an Amazonian forest. *Sackler Colloquia of the National Academy of Sciences*, “Biogeography, Changing Climates and Niche Evolution”, Irvine, CA.
2. **Kraft, N.** 2008. Strategy differentiation and coexistence in an Amazonian forest. *Ecological Society of America*, Milwaukee, WI.
1. **Kraft, N.**, D. Ackerly, R. Valencia, R. Condit, C. Hernandez, G. Villa, R. Foster, 2007. Functional trait distributions, phylogenetic structure, and the assembly of a Neotropical tree community in Amazonian Ecuador. *Ecological Society of America*, San Jose, CA.

**Professional Service:**

**International:**

**Lead author** (one of 20+), **United Nations Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES)**, *Americas Assessment*, Chapter 3. 2015-present.

**Editorial:**

**Editorial Board:** *Ecology* and *Ecological Monographs*, 2013 – present.

**Editorial Board:** *Axios Review*, 2013- 2017.

**Ad hoc peer reviewer:** *National Science Foundation*, *NSERC (Canada)*, *Nature*, *Science*, *Proceedings of the National Academy of Science*, *Trends in Ecology and Evolution*, *University of Chicago Press*, *Ecology*, *Ecology Letters*, *Ecological*

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*Monographs, Journal of Ecology, Evolution, the American Naturalist, Nature Communications, Nature Ecology and Evolution, Global Ecology and Biogeography, New Phytologist, Journal of Animal Ecology, Methods in Ecology and Evolution, Journal of Applied Ecology, Oikos, Oecologia, Biotropica, Journal of Tropical Ecology, Journal of Vegetation Science, Biology Letters, Ecography, Diversity and Distributions, Ecological Research, Basic and Applied Ecology, PLoS One, Netherlands Organization for Scientific Research. (I receive ~2 review requests per week and perform ~14 reviews/ year in addition to my ESA editorial work).*

**Associate faculty member:** Faculty of 1000 - Community Ecology & Biodiversity, 2010-2011.

**Working groups and workshops:**

**Working group participant,** "FREE: Functional Rarity in Ecology and Evolution". CESAB: French Centre for Synthesis and Analysis of Biodiversity, Aix-en-Provence, France. 2018 - 2021. Organizer: Cyrille Violle.

**Working group participant,** "The impact of ecological drift on functional diversity". sDiv- German Center for Integrative Biodiversity Research, Leipzig, Germany. 2017. Organizer: Ben Gilbert.

**Working group participant,** "sNICHE: Expanding Neo-Chessonian coexistence theory towards a stochastic-niche theory for species-rich communities". sDiv- German Center for Integrative Biodiversity Research, Leipzig, Germany. 2016-2017. Organizers: Thorsten Weigand and Stan Harpole.

**Invited workshop participant,** "Ecological and evolutionary perspectives on biodiversity dynamics and community assembly", November 2012, EAWAG Aquatic Research Laboratory, Switzerland.

**Working group participant:** "Macroevolution of Ecosystem Services", 2012- 2017, National Socio-Environmental Synthesis Center, Annapolis, MD. Organizers: Jeannine Cavender-Bares and Steve Polaski.

**Working group participant:** "Developing an integrated botanical information network (BIEN) to investigate the impacts of global climate change on plant biodiversity," 2011 - 2012, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. Organizers: Brian Enquist, Richard Condit, Robert Peet, Brad Boyle, Steven Dolins.

**Working group participant:** "Forecasting phenology: Integrating ecology, climatology, and phylogeny to understand plant responses to climate change," 2010 - 2011, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. Organizers: Benjamin Cook and Elizabeth Wolkovich.

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**Working group participant:** "A synthesis of patterns, analyses, and mechanisms of beta-diversity along ecological gradients", 2009 - 2010, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. Organizers: Jonathan Chase, Nathan Sanders, Amy Freestone.

**Workshop co-organizer:** "Climate Change and Bay Area Protected Areas", July 2009, Gordon and Betty Moore Foundation, Palo Alto, CA.

**Working group participant:** "The role of niche conservatism in producing biodiversity gradients". 2008 - 2009, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. Organizers: Howard Cornell, Susan Harrison, Christy McCain.

**Distributed Graduate Seminar Participant/ teaching assistant:** "Ushering in a new era of functional ecology: Dynamics in a changing environment", March 2008, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. Organizers: Elsa Cleland, Katherine Suding.

**Working group participant:** "Towards a functional trait based research program within the Center for Tropical Forest Science," 2006, Smithsonian Tropical Research Institute, Panama.

**Departmental and Campus Service:**

*University of California, Los Angeles*

**Vice Chair for Graduate Studies**, July 2016- present.

**Graduate Curriculum Revision Committee**, chair, 2018.

**EEB Hiring Priorities Workgroup**, facilitator, 2018.

**Plant Growth Center** ad-hoc access committee, 2018.

**La Kretz Center for Conservation Science**, advisory board, 2017-present

**La Kretz Center for Conservation Science**, young researcher advisory committee, facilitator, 2017-2018.

**Botany Building Renovation Master Plan** committee member, 2017-2018.

**Mildred Mathias Botanical Garden Visioning Committee**, member, 2017.

**Graduate Funding Ad-Hoc Workgroup**, chair, 2017.

**Graduate Curriculum Ad-Hoc Workgroup**, chair, 2017.

**EEB Hiring Priorities Workgroup**, 2016.

**Plant diversity and evolution faculty search**, committee member, 2016.

University of Maryland

**Biological Sciences Graduate Program Admissions Committee** 2014-2015.

**Faculty Advisory Committee** (alternate) Fall 2014.

**Biology Department Liason** to University Library System. 2013- 2015.

**Seminar Committee Chair**, Biological Sciences Behavior, Ecology, Evolution and Systematics (BISI-BEES) program. 2013-2015.

**Search Committee Member:** Department of Biology open rank faculty search, 2012 - 2013.

University of British Columbia

**Seminar committee member**, Biodiversity Research Seminar Series, Biodiversity Research Centre, 2010 - 2011.

**Retreat co-organizer:** Ecology and Evolution Fall Retreat, University of British Columbia, Simon Frasier University, University of Victoria, Fall 2009 and 2010.