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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:

- **Professor**, July 2021- present. **University of California, Los Angeles**, Department of Ecology and Evolutionary Biology.
- **Associate Professor**, January 2016- June 2021. **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**.
- **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**.

Publications:

Bold authors were lab members or visitors when the project was initiated.

Impact (as of 10/18/2024): Citations: 25,481 ([GS](#)); 17,181 ([WoS](#)); H: 62 (GS); 56 (WoS)

In review + In revision

106. Mary Van Dyke, Nathan Kraft. The community impacts of altered rainfall on flowering phenology in an annual grassland. *American Journal of Botany* (in revision).

105. Thorsten Wiegand, Xugao Wang, Samuel Fischer, **Nathan Kraft**, Norman A. Bourg, Warren Y. Brockelman, Guanghong Cao, Min Cao, Wirong Chanthorn, Chengjin Chu, Stuart Davies, Sisira Ediriweera, C. V. Savitri Gunatilleke, I. A. U. Nimal Gunatilleke, Zhanqing Hao, Robert Howe, Mingxi Jiang, Guangze Jin, W. John Kress, Buhang Li, Juyu Lian, Luxiang Lin, Feng Liu, Keping Ma, William McShea, Xiangcheng

Mi, Jonathan A. Myers, Anuttara Nathalang, David A. Orwig, Guochun Shen, Sheng-Hsin Su, I-Fang Sun, Xihua Wang, Amy Wolf, Enrong Yan, Wanhui Ye, Yan Zhu, Andreas Huth. Latitudinal scaling of aggregation with abundance and coexistence in forests. *Nature* (in revision).

104. Cyrille Violle, Lucie Mahaut, David Mouillot, Sandra Diaz, Nicolas Mouquet, Pierre Gaüzère, Brian Enquist, Anthony Maire, Matthias Grenié, Louise M. J. O'Connor, **Nathan Kraft**, Arnaud Auber, Marc Cadotte, Françoise Cardou, Léo Delalandre, Aaron Judah, Christopher Klausmeier, Elena Litchman, Nicolas Loiseau, Brian Maitner, Brian McGill, Matthew McLean, François Munoz, Annette Ostling, Catalina Pimiento, Aurèle Toussaint, Sébastien Villeger, Lucie Zinger, Wilfried Thuiller. Trait-based pathways to protect nature and its contributions to people. *Nature* (in review).

Published + In Press

103. Jacob Levine, Ruby Ann, **Nathan Kraft**, Stephen Pacala, Jonathan Levine. Why ecologists struggle to predict coexistence from functional traits. *Trends in Ecology and Evolution* (in press).

102. Mary Van Dyke, Jonathan Levine, **Nathan Kraft**, 2024. M.N. Van Dyke et al. reply. *Nature*, 632;E21-E29.

101. Elena Litchman, Sébastien Villéger, Lucie Zinger, Jean-Christophe Auguet, Wilfried Thuiller, François Munoz, **Nathan Kraft**, Laurent Philippot, Cyrille Violle, 2024. Refocusing the microbial rare biosphere concept through a functional lens. *Trends in Ecology and Evolution*, 39:923-936.

100. Jeffrey D Wood, Matteo Detto, Marvin Browne, **Nathan Kraft**, Alexandra G Konings, Joshua B Fisher, Gregory R Quetin, Anna T Trugman, Troy S Magney, Camila D Medeiros, Nidhi Vinod, Thomas N Buckley, Lawren Sack, 2024. The ecosystem as super-organ/ism, revisited: Scaling hydraulics to forests under climate change. *Integrative and Comparative Biology*, 64:424-400.

99. François Munoz, Christopher Klausmeier, Pierre Gaüzère, **Gaurav Kandlikar**, Elena Litchman, Nicolas Mouquet, Annette Ostling, Wilfried Thuiller, Adam Algar, Arnaud Auber, Marc Cadotte, Leo Delalandre, Pierre Denelle, Brian Enquist, Claire Fortunel, Matthias Grenié, Nicolas Loiseau, Lucie Mahaut, Anthony Maire, David Mouillot, Cyrille Violle, **Nathan Kraft**, 2023. The ecological causes of functional distinctiveness in communities, *Ecology Letters*, 26:1452-1465.

98. Vanessa Cutts, Dagmar Hanz, Martha Paola Barajas-Barbosa, Franziska Schrod, Manuel Steinbauer, Carl Beierkuhnlein, Pierre Denelle, José María Fernández-Palacios, Pierre Gaüzère, Matthias Grenié, Severin Irl, **Nathan Kraft**, Holger Kreft, Brian Maitner, François Munoz, Wilfried Thuiller, Cyrille Violle, Patrick Weigelt, Richard Field, Adam Algar, 2023. Links to rare climates do not translate into distinct traits for island endemics, *Ecology Letters*, 26:504-515.

97. Wu-Bing Xu, Wen-Yong Gu, ...**Nathan Kraft**..., Jens-Christian Svenning, Alejandro Ordonez (59 authors total), 2023. Global beta-diversity of angiosperm trees is shaped by Quaternary climate change. *Science Advances*, 9: article number eadd8553.
96. Edwin Pos, Luis de Souza Coelho, ... **Nathan Kraft**..., Lourens Poorter, Hans ter Steege (214 authors total), 2023. Unraveling Amazon tree community assembly using Maximum Information Entropy: a quantitative analysis of tropical forest ecology. *Scientific Reports*, 13: article number 2859.
95. **Mary Van Dyke**, Jonathan Levine, **Nathan Kraft**, 2022. Small rainfall changes drive substantial changes in plant coexistence. *Nature*, 611:507-511. **subject of Nature News and Views*
94. Sandra Diaz, ... **Nathan Kraft**... Gerhard Zotz (147 authors total), 2022. The global spectrum of plant form and function: enhanced species-level trait dataset. *Scientific Data*, 9:1-18.
93. **Nathan Kraft**, 2022. Review of “Handbook of Trait-Based Ecology: From Theory to R Tools”, *Quarterly Review of Biology*, 97:222. *Invited book review.*
92. Sebastian Schreiber, Jonathan Levine, Oscar Godoy, **Nathan Kraft**, Simon Hart, 2022. Does deterministic coexistence theory matter in a finite world? *Ecology*, e3838.
91. **Andrew Kleinhesselink**, **Nathan Kraft**, Stephen Pacala, Jonathan Levine, 2022. Detecting and interpreting higher order interactions in ecological communities. *Ecology Letters*, 25:1604 –1617.
90. Xiao Feng, Brian Enquist, Daniel Park, Brad Boyle, David Breshears, Rachael Gallagher, Aaron Lien, Erica Newman, Joseph Burger, Brian Maitner, Cory Merow, Yaoqi Li, Kimberly Huynh, Kacey Ernst, Elizabeth Baldwin, Wendy Foden, Lee Hannah, Peter Jørgensen, **Nathan Kraft**, Jon Lovett, Pablo Marquet, Brian McGill, Naia Morueta-Holme, Danilo Neves, Mauricio Núñez-Regueiro, Ary Oliveira-Filho, Robert Peet, Michiel Pillet, Patrick Roehrdanz, Brody Sandel, Josep Serra-Diaz, Irena Šímová, Jens-Christian Svenning, Cyrille Violle, Trang Weitemier, Susan Wiser, Laura López-Hoffman, 2022. A review of the heterogeneous landscape of biodiversity databases: Opportunities and challenges for a synthesized biodiversity knowledge base. *Global Ecology and Biogeography*, 31:1242–1260.
89. Wen-Yong Guo, Josep Serra-Diaz, Franziska Schrodte, Wolf Eiserhardt, Brian Maitner, Cory Merow, Cyrille Violle, Madhur Anand, Michaël Belluau, Hans Henrik Bruun, Chaeho Byun, Jane A Catford, Bruno Cerabolini, Eduardo Chacón-Madrigal, Daniela Ciccarelli, Hans Cornelissen, Anh Tuan Dang-Le, Angel de Frutos, Arildo Dias, Aelton Giroldo, Kun Guo, Alvaro Gutiérrez, Wesley Hattingh, Tianhua He, Peter

Hietz, Nate Hough-Snee, Steven Jansen, Jens Kattge, Tamir Klein, Benjamin Komac, **Nathan Kraft**, Koen Kramer, Sandra Lavorel, Christopher Lusk, Adam Martin, Maurizio Mencuccini, Sean Michaletz, Vanessa Minden, Akira Mori, Ülo Niinemets, Yusuke Onoda, Josep Peñuelas, Valério Pillar, Jan Pisek, Bjorn Robroek, Brandon Schamp, Martijn Slot, Enio Sosinski, Nadejda Soudzilovskaia, Nelson Thiffault, Peter M. van Bodegom, Fons van der Plas, Ian Wright, Wu-Bing Xu, Jingming Zheng, Brian Enquist, Jens-Christian Svenning, 2022. High exposure of global tree diversity to human pressure. *Proceedings of the National Academy of Sciences*, 119: e2026733119.

88. Jeannine Cavender-Bares, Erik Nelson, Jose Eduardo Meireles, Jesse Lasky, Daniela Miteva, David Nowak, William Pearse, Matthew Helmus, Amy Zanne, William Fagan, Christopher Mihiar, Nicholas Muller, **Nathan Kraft**, Stephen Polasky, 2022. The hidden value of trees: quantifying the ecosystem services of tree lineages and their major threats across the contiguous US. *PLoS Sustainability and Transformation*, 1:e0000010.

87. Gaurav Kandlikar, Andrew Kleinhesselink, **Nathan Kraft**, 2022. Functional traits predict species responses to environmental variation in a California grassland annual plant community. *Journal of Ecology*, 110:833-844.

86. Gaurav Kandlikar, Xinyi Yan, Jonathan Levine, **Nathan Kraft**, 2021. Soil microbes generate stronger fitness differences than stabilization among California annual plants. *American Naturalist*, 197:E30-E39.

85. Stuart Graham, Ariel Rokem, **Claire Fortunel**, **Nathan Kraft**, Janneke Hille Ris Lambers, 2021. Regularized regression: A new tool for investigating and predicting tree growth. *Forests*, 12:1283.

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83. Julia S. Joswig, Christian Wirth, Meredith C. Schuman, Jens Kattge, Bjorn Reu, Ian J. Wright, Sebastian D. Sippel, Nadja Ruger, Ronny Richter, Michael E. Schaepman, Peter van Bodegom, J. H. C. Cornelissen, Sandra Diaz, Wesley N. Hattingh, Koen Kramer, Frederic Lens, Ulo Niinemets, Peter B. Reich, Markus Reichstein, Christine Romermann, Franziska Schrodt, Madhur Anand, Michael Bahn, Chaeho Byun, Giandiego Campetella, Bruno E. L. Cerabolini, Joseph M. Craine, Andres Gonzalez-Melo, Alvaro G. Gutierrez, Tianhua He, Pedro Higuchi, Herve Jactel, **Nathan Kraft**, Vanessa Minden, Vladimir Onipchenko, Josep Penuela, Valerio D. Pillar, Enio Sosinski, Nadejda A. Soudzilovskaia, Evan R. Weiher, Miguel D. Mahecha, 2021. Climatic and soil factors explain the two-dimensional spectrum of global plant trait variation. *Nature Ecology and Evolution*, 6:36-50.

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81. Rachel Meyer, Miroslava Munguia Ramos, Meixi Lin, Teia Schweizer, Zachary Gold, Dannise Ruiz Ramos, Sabrina Shirazi, **Gaurav Kandlikar**, Wai-Yin Kwan, Emily Curd, Amanda Freise, Jordan Moberg Parker, Jason Sexton, Regina Wetzer, N. Dean Pentcheff, Adam Wall, Lenore Pipes, Ana Garcia- Vedrenne, Maura Palacios Mejia, Tiara Moore, Chloe Orland, Kimberly Ballare, Anna Worth, Eric Beraut, Emma Aronson, Rasmus Nielsen, Harris Lewin, Paul Barber, Jeff Wall, **Nathan Kraft**, Beth Shapiro, Robert Wayne, 2021. The CALeDNA program: Citizen scientists and researchers inventory California’s biodiversity. *California Agriculture*, 75: 20-32.

80. Lauren Shoemaker, Lauren Sullivan, Ian Donohue, Juliano Cabral, Ryan Williams, Margie Mayfield, Jon Chase, Chengjin Chu, W. Stanley Harpole, Andreas Huth, Janneke HilleRisLambers, Aubrie James, **Nathan Kraft**, Felix May, Ranjan Muthukrishnan, Sean Satterlee, Franziska Taubert, Xugao Wang, Thorsten Wiegand, Qiang Yang, and Karen Abbott, 2020. Integrating the underlying structure of stochasticity into community ecology. *Ecology*, 101: e02922.

79. Jens Kattge, ... **Nathan Kraft**...**Ian McFadden**... (729 authors total)... Cristian Wirth, 2020. TRY plant trait database – enhanced coverage and open access. *Global Change Biology*, 26:119-188.

78. Jonas Kuppler, Cécile H. Albert, Gregory M. Ames, William Scott Armbruster, Gerhard Boenisch, Florian C. Boucher, Diane R. Campbell, Liedson T. Carneiro, Eduardo Chacón-Madrigal, Brian J. Enquist, Carlos R. Fonseca, José M. Gómez, Antoine Guisan, Pedro Higuchi, Dirk N. Karger, Jens Kattge, Michael Kleyer, **Nathan Kraft**, Anne-Amélie C. Larue-Kontić, Amparo Lázaro, Martin Lechleitner, Deirdre Loughnan, Vanessa Minden, Ülo Niinemets, Gerhard E. Overbeck, Amy L. Parachnowitsch, Francisco Perfectti, Valério D. Pillar, David Schellenberger Costa, Nina Sletvold, Martina Stang, Isabel Alves-dos-Santos, Helena Streit, Justin Wright, Marcin Zych, Robert R. Junker, 2020. Global gradients in intraspecific variation in vegetative and floral traits are partially associated with climate and species richness. *Global Ecology and Biogeography*, 29:992-1007.

- 77. Gaurav Kandlikar**, Christopher Johnson, **Xinyi Yan**, **Nathan Kraft**, Jonathan Levine, 2019. Winning and losing with microbes: how microbially mediated fitness differences influence plant diversity. *Ecology Letters*, 22:1178-1191.
- 76. Ian McFadden**, Brody Sandel, Constantinos Tsirogiannis, Naia Morueta-Holme, Jens-Christian Svenning, Brian Enquist, **Nathan Kraft**, 2019. Temperature shapes opposing latitudinal gradients of plant taxonomic and phylogenetic β diversity. *Ecology Letters* 22:1126-1135.
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- 75. Claire Fortunel**, **Ian McFadden**, Renato Valencia, **Nathan Kraft**, 2019. Can species climatic niche breadth or intraspecific trait variability predict habitat specialization in a hyperdiverse Amazonian forest? *Biotropica*, 51:304-310.
- 74. Ian McFadden**, Megan Bartlett, Thorsten Weigand, Benjamin Turner, Lawren Sack, Renato Valencia, **Nathan Kraft**, 2019. Disentangling the functional trait correlates of spatial aggregation in tropical forest trees. *Ecology*, 100:e02591.
- 73. Lei Chen**, Yunquan Wang, Xiangcheng Mi, Xiaojuan Liu, Haibao Ren, Jiahua Chen, Keping Ma, and **Nathan Kraft**. 2019. Neighborhood effects explain increasing asynchronous seedling survival in a subtropical forest. *Ecology* 100:e02821.
- 72.** Emily Curd, Zack Gold, **Gaurav Kandlikar**, Jesse Gomer, Max Ogden, Taylor O'Connell, Lenore Pipes, Teia Schweizer, Laura Rabichow, Meixi Lin, Baochen Shi, Paul Barber, **Nathan Kraft**, Robert Wayne, Rachel S. Meyer, 2019. Anacapa Toolkit: An environmental DNA toolkit for processing multilocus metabarcode datasets. *Methods in Ecology and Evolution*, 10:1469-1475.
- 71.** Jesús Aguirre Gutiérrez, Imma Oliveras, Sami Rifai, Sophie Fauset, Stephen Adu-bredu, Kofi Affum-baffoe, Timothy Baker, Ted Feldpausch, Agne Gvozdevaite, Wannes Hubau, **Nathan Kraft**, Simon Lewis, Sam Moore, Ülo Niinemets, Theresa Peprah, Oliver Phillips, Kasia Ziemińska, Brian Enquist, Yadvinder Malhi. Drier tropical forests are susceptible to functional changes in response to a long-term drought. *Ecology Letters*, 22: 855-865.
- 70.** Brian Enquist, Xiao Feng, Brad Boyle, Brian Maitner, Erica Newman, Peter Jørgensen, Patrick Roehrdanz, Barbara Thiers, Joseph Burger, Richard Corlett, Thomas Couvreur, Gilles Dauby, John Donoghue, Wendy Foden, Jon Lovett, Pablo Marquet, Cory Merow, Guy Midgley, Naia Morueta-Holme, Danilo Neves, Ary Oliveira-Filho, **Nathan Kraft**, Daniel Park, Robert Peet, Michiel Pillet, Josep Serra-Diaz, Brody Sandel, Mark Schildhauer, Irena Šímová, Cyrille Violle, Jan Wieringa, Susan K. Wiser, Lee Hannah, Jens-Christian Svenning and Brian McGill, 2019. The commonness of rarity: Global and future distribution of rarity across land plants. *Science Advances*, 5:eaaz0414.

69. Habacuc Flores-Moreno, Farideh Fazayeli, Arindam Banerjee, Abhirup Datta, Jens Kattge, Ethan Butler, Owen Atkin, Kirk Wythers, Ming Chen, Madhur Anand, Michael Bahn, Chaeho Byun, J Hans Cornelissen, Joseph Craine, Andres Gonzalez-Melo, Wesley Hattingh, Steven Jansen, **Nathan Kraft**, Koen Kramer, Daniel Laughlin, Vanessa Minden, Ülo Niinemets, Vladimir Onipchenko, Josep Peñuelas, Nadejda Soudzilovskaia, Rhiannon Dalrymple, Peter Reich, 2019. Robustness of trait connections across environmental gradients and growth forms. *Global Ecology and Biogeography*, 28:1806-1826.
68. Irena Šímová, Brody Sandel, Brian Enquist, Sean Michaletz, Jens Kattge, Cyrille Violle, Brian McGill, Ben Blonder, Kristina Engemann, Robert Peet, Susan Wiser, Naia Morueta-Holme, Brad Boyle, **Nathan Kraft**, and Jens-Christian Svenning. 2019. The relationship of woody plant size and leaf nutrient content to large-scale productivity for forests across the Americas. *Journal of Ecology* 107:2278-2290.
67. Susy Echeverría-Londoño, Brian Enquist, Danilo Neves, Cyrille Violle, Brad Boyle, **Nathan Kraft**, Brian Maitner, Brian McGill, Robert Peet, Brody Sandel, Stephen Smith, Jens-Christian Svenning, Susan Wiser, and Andrew Kerkhoff. 2018. Plant Functional Diversity and the Biogeography of Biomes in North and South America. *Frontiers in Ecology and Evolution* 6:219.
66. **Gaurav Kandlikar**, Zachary Gold, Madeline Cowen, Amanda Freise, Rachel Meyer, Jordan Moberg-Parker, **Nathan Kraft**, Joshua Sprague, David Kushner, and Emily Curd, 2018. ranacapa: An R package to explore environmental DNA data with exploratory statistics and interactive visualizations. *F1000Research*, 7:1734.
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*, 99:2272- 2283.
64. William Petry, **Gaurav Kandlikar**, **Nathan Kraft**, Oscar Godoy, and Jonathan Levine, 2018. A competition-defence trade-off both promotes and weakens coexistence in an annual plant community. *Journal of Ecology*, 106:1806-1818.
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.
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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, 2017. 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**, 2017. From ecological strategies to trait ecology. *The Bulletin of the Ecological Society of America*. 98:32-33. *Invited commentary*
- 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 Wisser, 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,

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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 Allgemeine*

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:

2. Jeannine Cavender-Bares, Mary Arroyo (*coordinating lead authors*), Robin Abell, David Ackerly, Daniel Ackerman, Matias Arim, Jayne Belnap, Francisco Castañeda Moya, Laura Dee, Natalia Estrada-Carmona, Judith Gobin, Forest Isbell, Gunther Köhler, Marten Koops, **Nathan Kraft**, Nicholas Macfarlane, Cristina Martínez-Garza, Jean-Paul Metzger, Arturo Mora, Mike Oatham, Adriano Paglia, Julieta Pedrana, Pablo Luis Peri, Gervasio Piñeiro, Robert Randall, Wren Walker Robbins, Judith Weis, Silvia Renate Ziller. (*lead authors*), 2018. Chapter 3: Status and trends of biodiversity and ecosystem functions underpinning nature's benefit to people. In *IPBES (2018): The IPBES regional assessment report on biodiversity and ecosystem services for the Americas*. Rice, J., Seixas, C. S., Zaccagnini, M. E., Bedoya-Gaitán, M., and

Valderrama, N. (eds.). Secretariat of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services, Bonn, Germany.

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:

- **Highly Cited Researcher List 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022.** Web of Science Group, for being among the top ~6,200 researchers globally (top 169 in "Environment & Ecology" field) in producing a large number of highly cited papers (top 1% of citation numbers) between 2003-2021.
- **Murray F. Buell Award** for outstanding student oral presentation, Ecological Society of America, 2020. Awarded to graduate student Gaurav Kandlikar for his presentation of a dissertation chapter (*publication #77 above*) at the 2019 ESA meeting.
- **Life Science Faculty Award for Inclusive Excellence**, UCLA Division of Life Sciences, 2019. For efforts to promote equity, diversity, and inclusion in the UCLA EEB Graduate Program.
- **Faculty Staff Partnership Award**, UCLA Ecology and Evolutionary Biology 2018. For efforts to promote effective collaboration between faculty and staff in leading the department.
- **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:

- 2020-2025, *National Science Foundation*, Division of Environmental Biology, Population and Community Ecology program. " Collaborative Research: Higher order interactions, functional trait changes, and species coexistence in an annual plant community." Collaborative PIs: Nathan Kraft, Jonathan Levine (Princeton). NSF DEB Award # 2022810. \$626,665 to UCLA, \$1,167,564 total; 2020-2024.
- 2020-2025, *National Science Foundation*, Division of Environmental Biology, MacroSysBio & NEON-Enabled Science Program. "Collaborative Research: MRA: Scaling from Traits to Forest Ecosystem Fluxes and Responses to Climate Change, from Stand to Continent". PI Lawren Sack; Co-PIs: Nathan Kraft and Anna Trugman (UCSB). \$871,561 to UCLA.
- 2015-2020, *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 (ETH Zurich). NSF DEB Award # 1456246 (Univ. Maryland)/ #1644641 (UCLA transfer). \$530,000 to UMD; balance transferred to UCLA.
- 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.
- 2007-2008; *Center for Tropical Forest Science*, Smithsonian Tropical Research Institution, \$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.
- 2006-2008; *Center for Tropical Forest Science*, Smithsonian Tropical Research Institution, \$10,000 "A leaf trait database for the Yasuní Forest Dynamics Plot."
- 2000, NSF Research Experience for Undergraduates, Shoals Marine Laboratory.

- 2000, Hughes Advanced Research Fellowship, Brown University.

Mentoring:

Postdoctoral Scholars:

- Dr. Kristin Powell, SESYNC postdoctoral fellow (October 2013- June 2014) *Currently:* Director of Interdisciplinary Education, BioFrontiers Institute, UC Boulder.
- 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:* Professor, Institute of Botany, Chinese Academy of Sciences.
- Dr. Andrew Kleinhesselink, UCLA (2017- 2020) *Currently:* Managing Director of Sage Hill, Institute of the Environment , UCLA.
- Dr. Hannah Carroll, UCLA UPLIFT fellow (co-mentored w/ Dr. Aradhna Tripathi, 2020-2023). *Currently:* Assistant Professor, Western Colorado University.
- Dr. Samantha Catella, La Kretz Center Postdoctoral Fellow (co-mentored with Dr. Sophie Parker, The Nature Conservancy, 2021-2023)

Doctoral Students (* NSF GRFP Recipient):

- Ian McFadden*, 2012-2019. *'Separating the effects of multiple processes on diversity patterns in an Amazonian tree community and the New World flora'*. (currently group leader/ lecturer, Queen Mary University of London, UK)
- Gaurav Kandlikar*, 2014-2020. *'Quantifying the effects of spatial environmental variation and soil microbes on plant community dynamics'*. (currently Assistant Professor, Dept. Biological Sciences, Louisiana State University)
- Marcel Vaz, 2014- 2021. *'Trait-mediated coexistence in a hyperdiverse tropical forest, or, Why are there so many kinds of trees in the Central Amazon?'*. (currently postdoctoral researcher at Wilkes University)
- Mary Van Dyke 2017- 2023. *'The effects of temporal variation in precipitation on plant coexistence in an annual grassland community.'* (currently postdoctoral researcher, Colorado State University)
- Kenji Hayashi 2018-
- Lauren Glevanik 2022-
- Alexandra Cisneros Carey*, 2024-
- Maya Sagarin, 2024-

Masters Students:

- Jordan Yanowitz 2022-2023 (UCLA EEB Department Scholar)
- Kami Schneider 2024-

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)
Dr. Milton de Souza Mendonça, Professor, Dept. of Ecology, UFRGS, Brazil (2019-20)
Dr. Bill Hoffman, Professor, Plant and Microbial Biology, NC State University (2019)

Visiting doctoral students:

Aubrie James, Geber Lab, Cornell University (2017)
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 doctoral committees (EEB unless stated otherwise):

Emily Ryznar, advisor: Peggy Fong (2017- 2021)
Camila Medeiros, advisor: Lawren Sack (2017- 2021)
Guilherme Casas Gonçalves, advisor Priyanga Amarasekare (2017- 2022)
Lauren Smith, advisor: Peggy Fong (2018- 2023)
Leila Fletcher, advisor: Lawren Sack (2018- 2021)
Shalanda Greir: advisor: Peggy Fong (2019- 2023)
Ioana Anghel: advisor: Felipe Zapata (2020- 2024)
Rosa McGuire: advisor: Priyanga Amarasekare (2020- 2023)
Nick Russo: advisor: Tom Smith (2021- 2024)
Graham Montgomery, advisor: Morgan Tingley (2022-)
Evan Doughty, advisors: Blaire Van Valkenburgh & Jon Marcot (2022-2024)
Jessie George (Geography), advisor: Glen McDonald (2022)
Sara Pedraza, advisor: Felipe Zapata (2024-)
Eliseo Parra, advisor: Dan Blumstein (2024-)
Katherine Hannibal, advisor: Peggy Fong (2024-)

UCLA EEB masters committees:

Ana Rubio, advisor: Noa Pinter-Wollman (2018-2020)

UCLA EEB first year guidance committees:

Ioana Anghel, advisor: Felipe Zapata (2017)
Alec Baird, advisor: Lawren Sack (2017)
Marvin Brown, advisor: Lawren Sack (2017)
Shalanda Greir: advisor: Peggy Fong (2017)
Regina Zweng, advisor: Peggy Fong (2017)
Ana Rubio, advisor: Noa Pinter-Wollman (2018)
Rosa McGuire, advisor: Priyanga Amarasekare (2018)
Nick Russo, advisor: Tom Smith (2018)
Madeline Cowen, advisor: Greg Grether (2018)
Melissa Ochoa, advisors: Victoria Sork and Lawren Sack (2018)

Dyonishia Nieves, advisor: Lawren Sack (2019)
Shawn Schwartz, advisor: Mike Alfaro (2019)
Graham Montgomery, advisor: Morgan Tingley (2019)
Bernice Badillo, advisor: Victoria Sork (2020)
Katherine Hannibal, advisor: Peggy Fong (2021)
Nidhi Vinod, Advisor: Elsa Ordway and Lawren Sack (2021)
Hannah Larson, advisor: Colin Kremer (2021)
Anna Jiselle Ongjoco, advisor: Lawren Sack (2021)
Ary Amaya, advisor: Elsa Ordway (2022)
Carissa DeRanek, advisor: Elsa Ordway (2022)
Sara Pedraza, advisor: Felipe Zapata (2022)
Jesse Gomez, advisor: Lawren Sack (2023)
Jordyn Regier, advisor: Lawren Sack (2023)
Dillon Max, advisor: Chuliang Song (2024)
Nico Andrade, advisor: Lawren Sack (2024)
Erika Ono-Kerns, advisor: Jamie Lloyd-Smith (2024)

University of Maryland doctoral committees (BEES unless stated; 2012-2015):

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 Olf.
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
Dony Indiarito, Univ. New South Wales, Ph.D., advisors: D. Faslter and W. Cornwell.

Undergraduate research mentoring:

Honors theses at UCLA:

Vivian Griffey (2017, Geography, co-mentored with Tom Gillespie)
Heather Lindsey (2019, Ecology, Behavior and Evolution)
Xinyi Yan (2020, Biology)

UCLA research quarters supervised

Spring 2016: Clare Camilleri, Grace Kumaishi, Vivian Griffey.

Summer 2016: Angela Chen.

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

Fall 2018: Xinyi Yan, Megan Clark, Heather Lindsey, Anmol Dhaliwal, Jeff Lee, Jonathan Shi.

Winter 2019: Xinyi Yan, Megan Clark, Heather Lindsey, Anmol Dhaliwal, Jeff Lee, Jonathan Shi.

Spring 2019: Xinyi Yan, Heather Lindsey, Anmol Dhaliwal, Kiumars Edalati, Jonathan Shi.

Fall 2019: Xinyi Yan, Anmol Dhaliwal, Kiumars Edalati, Leontyne Henderson, Jordan Yanowitz.

Winter 2020: Anmol Dhaliwal, Kiumars Edalati, Jordan Yanowitz, Jiayu Li, Timothy Foster.

Spring 2020: Kiumars Edalati, Timothy Foster, Leontyne Henderson, Magdalene Lo, Xinyi Yan, Celina Nishioka.

Fall 2020: Leah Andino, Timothy Foster, Jordan Yanowitz.

Winter 2021: Timothy Foster, Ian Morris, Jiahui Li, Carly Pomeroy, Abita Venkatesh, Jordan Yanowitz

Spring 2021: Timothy Foster, Ian Morris, Jiahui Li, Levy Lidor, Carly Pomeroy, Abita Venkatesh, Jordan Yanowitz

Fall 2021: Jinsuh Jung-Aum, Ian Morris, Julie Yang.

Winter 2022: Jinsuh Jung-Aum, Ian Morris, Julie Yang

Spring 2022: Jinsuh Jung-Aum, Amelia Chiang, Ian Morris, Julie Yang

Fall 2022: Amelia Chiang, Jagveer Gill, Soline Grimbert, Fidel Negrete, Andrew Rice, Julie Yang.

Winter 2023: Amelia Chiang, Jagveer Gill, Fidel Negrete, Andrew Rice, Julie Yang.

Spring 2023: Fidel Negrete, Chudi Onyedika, Julie Yang.

University of Maryland research semesters supervised:

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:

Fall 2024: EEB 161: Plant Ecology (enrollment 80).
Winter 2024: EEB 297: Wilderness.
Fall 2023: EEB 161: Plant Ecology. (enrollment 80).
Fall 2022: EEB 297 Sem 46: The Academic Job Search. With Morgan Tingley (enrollment 6).
Fall 2022: EEB 161: Plant Ecology. (enrollment 78).
Spring 2022: EEB 297 Sem 5: Functional and ecophysiological approaches to population and community ecology. With Colin Kremer (enrollment: 6).
Fall 2021: EEB 161: Plant Ecology. (enrollment 105).
Winter 2021: EEB 161: Plant Ecology. (enrollment 116).
Winter 2021: EEB 250: Professional Skills for Biological Research (graduate core curriculum, enrollment 10).
Fall 2020: EEB 200A: Evolution. (Ecology section of graduate core curriculum; enrollment 11).
Winter 2020: EEB 250: Professional Skills for Biological Research (graduate core curriculum, enrollment 18).
Fall 2019: EEB 200A: Evolution. (Ecology section of graduate core curriculum; enrollment 22).
Fall 2019: EEB 161: Plant Ecology. (enrollment 116).
Spring 2019: EEB 250: Professional Skills for Biological Research (graduate core curriculum, enrollment 11)
Winter 2019: EEB 200B: Ecology (graduate core curriculum, enrollment 9)
Fall 2018: EEB 161: Plant Ecology. (enrollment 74).
Winter 2018: EEB 200B: Ecology (graduate core curriculum, enrollment 15)
Fall 2017: EEB 161: Plant Ecology. (enrollment 49).
Winter 2017: EEB 200B: Ecology (graduate core curriculum, enrollment 6)
Fall 2016: EEB 187(1): Variable Topics: 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, enrollment 52)
Spring 2015 BIOL608O: Coexistence in Ecological Communities. (graduate seminar; enrollment 10)
Fall 2014 BSCI 361: Principles of Ecology. (undergraduate lecture, enrollment 41)
Fall 2013 BIOL 608E: Community Ecology: Foundations and Frontiers. (graduate seminar, enrollment 15)
Spring 2013 BSCI 361: Principles of Ecology. (undergraduate lecture, enrollment 67)

Teaching Assistantships:

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**

Summer 2018 "Global Change (from a plant ecology perspective)" **EEB 156: Biology and Social Justice**

Fall 2019 "Global Change (from a plant ecology perspective)" **EEB 156: Biology and Social Justice**

Fall 2021 "Trait based perspectives in ecology and evolution" **EEB 200A: Evolution**

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:

2025 University of Texas at Austin. Integrative Biology.

2024 University of California, Davis. Ecology & Evolution Seminar Series.

- 2023 University of California, Riverside, Department of Biology.
2022 Georgia Tech, School of Biological Sciences.
2020 University of Montana, Division of Biological Sciences.
2020 University of Utah, School of Biology Sciences.
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 Department.
2017 University of California, Riverside; Department of Biology.
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:

15. Kraft, N. 2024. Community assembly and species coexistence: complex insights from a 'simple' annual plant community. **2nd International Symposium on Biodiversity and Global Sustainability**, East China Normal University.
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. **58th 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:

52. **Lauren Glevanik, Nathan Kraft, 2024.** Quantifying species-specific seed dispersal in annual grassland communities. *Ecological Society of America*, Long Beach, CA.
51. Camila D Medeiros, Santiago Trueba, Christian Henry, Leila Fletcher, James Lutz, Rodrigo Méndez Alonzo, **Nathan Kraft**, Lawren Sack, **2024.** Simplification of plant trait networks among communities along a climatic aridity gradient. *Ecological Society of America*, Long Beach, CA.
50. **Nathan Kraft**, Jonathan Levine, **2023.** Quantifying the effect of higher order interactions in a diverse California annual plant community. *Ecological Society of America*, Portland, OR.
49. **Samantha Catella**, Sophie Parker, **Nathan Kraft, 2023.** Sourcing seed for restoration in an urban landscape. *Ecological Society of America*, Portland, OR.
48. **Kenji Hayashi, Nathan Kraft, 2023.** Linking competition to species' distributions: a greenhouse experiment with California annual plants. *Ecological Society of America*, Portland, OR.
47. **Mary Van Dyke**, Jonathan Levine, **Nathan Kraft, 2022.** California annual plant community demographic responses to long term variation in climate- implications for coexistence and global change. *Ecological Society of America*, Montreal, QC.
46. **Mary Van Dyke, Nathan Kraft, 2021.** How changes in phenology affect coexistence in an annual grassland. *Ecological Society of America*, Virtual Annual Meeting.

45. **Marcel Vaz**, Jose Luis Camargo, Alberto Vincentini, Alexandre Oliveira, **Nathan Kraft**, 2021. Linking allocation and performance tradeoffs in Central Amazonian saplings. *Ecological Society of America*, Virtual Annual Meeting.
44. **Kenji Hayashi**, **Nathan Kraft**, 2021. Spatially variable competitive interactions shape the performance and distributions of annual plant species in a California grassland. *Ecological Society of America*, Virtual Annual Meeting.
43. **Marcel Vaz**, **Celina Nishioka**, **Magdalene Lo**, Jose Luis Camargo, Alexandre Oliveira, Alberto Vincentini, **Nathan Kraft**, 2021. Decoupling of adult and sapling niches helps to explain tree hyperdiversity in a Central Amazon forest. *Association of Tropical Biology and Conservation*, Virtual Annual Meeting.
42. **Marcel Vaz**, José L.C. Camargo, Alberto Vicentini, Alexandre A. Oliveira, Benjamin L. Turner and **Nathan J. B. Kraft**, 2020. Poor soil, rich forest: Leaf nutrients and habitat specialization in an Amazonian forest. *Ecological Society of America*, Salt Lake City, UT.
41. **Mary Van Dyke**, **Andrew Kleinhesselink** and **Nathan J. B. Kraft**, 2020. Small changes in rainfall drive large shifts in competition and species coexistence in an annual grassland community. *Ecological Society of America*, Salt Lake City, UT.
40. **Kenji Hayashi**, **Mary Van Dyke**, **Gaurav Kandlikar** and **Nathan J. B. Kraft**, 2020. How does functional composition of the species pool and competitive neighborhood impact plant demographic rates? *Ecological Society of America*, Salt Lake City, UT.
39. **Xinyi Yan**, **Gaurav Kandlikar**, Jonathan Levine and **Nathan Kraft**, 2020. Evaluating the microbial effect on the pairwise and community-wide coexistence of California annual species. *Ecological Society of America*, Salt Lake City, UT.
38. Brian Enquist, Xiao Feng, Brad Boyle, Brian S. Maitner, Erica Newman, Peter M. Jørgensen, Patrick Roehrdanz, Barbara Thiers, Robbie Burger, Richard T. Corlett, Thomas Couvreur, Gilles Dauby, John C. Donoghue II, Wendy Foden, Pablo A. Marquet, Cory Merow, Guy F. Midgley, Naia Morueta-Holme, Danilo Neves, Ary T. Oliveira-Filho, **Nathan Kraft**, Daniel S. Park, Robert K. Peet, Michiel Pillet, Josep M. Serra-Diaz, Brody Sandel, Mark Schildhauer, Irena Šimová, Cyrille Violle, Jan J. Wieringa, Susan K. Wisser, Lee Hannah, Jens-Christian Svenning and Brian McGill, 2020. The commonness of rarity: Global and future distribution of rarity across land plants. *Ecological Society of America*, Salt Lake City, UT.
37. Brian Enquist, Cory Merow, Lee Hannah, Bradley Boyle, Xiao Feng, Brian Maitner, Erica Newman, Brian McGill, Wendy Foden, Jon C Lovett, Pablo A Marquet, Guy Midgley, Richard Corlett, Patrick Roehrdanz, Rachael V Gallagher, **Nathan Kraft**, Naia Morueta-Holme, Danilo M Neves, Michiel Pillet, Brody Sandel, Josep M Serra-Diaz, Irena Simova, Jens-Christian Svenning, Cyrille Violle, Susan Wisser, Robert K Peet, Nirav Merchant, Emmanouil Anagnostou, Efthymios Nikolopoulos, Laura Duncanson,

Amy E Frazier, David Barnett, Mark Schildhauer, Adam Wilson, Andrew Rominger, Jasper Slingsby, Roberto Salguero-Gomez, 2019. Forecasting future global biodiversity: Predicting current and future global plant distributions, community structure, and ecosystem function. ***American Geophysical Union***, San Francisco, CA.

36. William Petry, **Gaurav Kandlikar**, Ewa Merz, **Nathan Kraft**, Jonathan Levine, 2019. Mechanistic insights into species-area relationships through the lens of coexistence theory. ***Ecological Society of America***, Louisville, KY.

35. **Marcel Vaz**, José LC Camargo, Alexandre A Oliveira, Alberto Vicentini, **Nathan Kraft**, 2019. Testing the pessimistic-optimistic crown architecture hypothesis in a hyperdiverse forest. ***Ecological Society of America***, Louisville, KY.

34. **Gaurav Kandlikar**, Christopher Johnson, **Xinyi Yan**, **Nathan Kraft**, Jonathan Levine, 2019. How microbially mediated fitness differences influence plant diversity. ***Ecological Society of America***, Louisville, KY. ***Awarded ESA Buell Award for best student talk.**

33. Suzanne Ou, Vasco Lepori, **Andrew Kleinhesselink**, **Mary Van Dyke**, **Gaurav Kandlikar**, Jonathan Levine, **Nathan Kraft**, 2018. Does competition drive phenological shifts in Californian annual plants? ***Ecological Society of America***, New Orleans, LA.

32. William Petry, **Gaurav Kandlikar**, **Nathan Kraft**, Jonathan Levine, 2018. Spatial variation in seed consumption and apparent competition generate mosaics of plant diversity. ***Ecological Society of America***, New Orleans, LA.

31. **Gaurav Kandlikar**, Jonathan Levine, **Nathan Kraft**, 2018. Functional traits help explain plant demographic responses to variation in soil abiotic characteristics and microbial composition. ***Ecological Society of America***, New Orleans, LA.

30. **Andrew Kleinhesselink**, **Nathan Kraft**, Jonathan Levine, 2018. Detecting higher order interactions in mechanistic resource competition models. ***Ecological Society of America***, New Orleans, LA.

29. Sebastian Schreiber, Jonathan Levine, Oscar Godoy, **Nathan Kraft**, Simon Hart, 2018. Does coexistence theory matter in a finite world? ***Ecological Society of America***, New Orleans, LA.

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 li, 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. Wisser, 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. 2015-2018.

Editorial:

Editorial Board: *Ecology* and *Ecological Monographs*, 2013 – 2023.

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

Ad hoc peer reviewer: *National Science Foundation (Population and Community Ecology, Evolutionary Processes, Biodiversity on a Changing Planet, and Dimensions of Biodiversity panels)*, *NSERC (Canada)*, *Nature*, *Science*, *Proceedings of the National Academy of Science*, *Trends in Ecology and Evolution*, *University of Chicago Press*, *Ecology*, *Ecology Letters*, *Ecological 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*.

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 & Montpellier, France. 2018 - 2025. 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.

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 system

UC Natural Reserve System, three campus review committee, Proposed UC Davis-Mt. Lassen Reserve, UCLA representative, Summer 2018.

University of California, Los Angeles: Campus

Life Science Diversity Advisory Committee, member, 2022- present.

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

Mildred Mathias Botanical Garden, faculty advisory committee, 2018-present.

Co-Director, Plant Growth Center, 2019- 2022.

Search Committee Member, Dean of Life Sciences Search, 2019-2020. *Recruited Dean Tracy Johnson.*

Panelist, Association for Multi-Ethnic Bioscientists' Advancement (AMEBA), "Demystifying the Qualifying Exam" workshop, 2020, 2021, 2022.

Reviewer, HHMI Gilliam Fellowship, 2019, 2020.

Selection Committee, La Kretz Center Postdoctoral Fellowships, 2019.

Reviewer, Dissertation Year Fellowship applications, 2018, 2020 and 2021.

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

La Kretz Center for Conservation Science, Young Researcher Advisory Committee, chair, 2017-2018. *Led a committee of early career scientists at UCLA charged with developing and proposing new research directions to the La Kretz Center leadership team.*

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

Mildred Mathias Botanical Garden Visioning Committee, member, 2017.

University of California, Los Angeles: Ecology and Evolutionary Biology Department

Vice Chair for Community, 2022- present. *Chaired the Committee for Anti-Racism and Equity (CARE); organized and facilitated the 2022 departmental retreat; participated in weekly departmental leadership meetings; organized community building events throughout academic year.*

Undergraduate Curriculum Committee, 2021-22, member.

Development Committee, 2021-22, member.

Graduate Research Awards Committee, Spring 2022, member.

Unofficial EEB Graduate Program Consultant, 2021-2022. *During 2021-22 EEB had no Graduate Vice Chair, and a new interim Chair, new graduate SAOs and a new head of graduate admissions. In an effort to smooth the transition, I spent 2-5 hours per week on average in the academic year responding to questions about the graduate program and discussing the graduate program with leadership & staff.*

Vice Chair for Graduate Studies, 2016- 2021. *Chaired the EEB graduate admissions committee, led revision of the graduate core curriculum, updated admissions practices to enhance diversity of our program, oversaw the administration of the graduate program.*

Ecology Faculty Search (2019), member, 2019- 2020. *Recruited Dr. Elsa Ordway.*

Ecology Faculty Search (2018), chair, 2018- 2019. *Recruited Dr. Colin Kremer.*

Graduate Curriculum Revision Committee, chair, 2018, 2020. *Led faculty discussion and ad-hoc workgroups focused on revising the core graduate curriculum.*

EEB Hiring Priorities Workgroup, co-chair, 2018. *With Dr. Blaire Van Valkenburgh, led an ad hoc committee to establish EEB hiring priorities.*

Graduate Funding Ad-Hoc Workgroup, chair, 2017. *Proposed changes in EEB graduate support and resource allocation models.*

Graduate Curriculum Ad-Hoc Workgroup, chair, 2017. *Proposed changes in the EEB core curriculum and our graduate mentoring structures.*

EEB Hiring Priorities Workgroup, 2016. *Proposed hiring priorities within the subfields of Ecology and Plant Biology.*

Plant diversity and evolution faculty search, committee member, 2016. *Recruited Dr. Felipe Zapata.*

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, 2009 and 2010.