David A. Vasseur

Curriculum Vitae

· DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY · YALE UNIVERSITY ·
· NEW HAVEN · CONNECTICUT · 06520 · USA ·
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PROFESSIONAL EXPERIENCE

2021 - current **Professor**
Department of Ecology and Evolutionary Biology
Yale University
New Haven, CT (USA)

2013 - 2021 **Associate Professor**
Department of Ecology and Evolutionary Biology
Yale University
New Haven, CT (USA)

2008 - 2013 **Assistant Professor**
Department of Ecology and Evolutionary Biology
Yale University
New Haven, CT (USA)

2006 - 2008 **NSERC and Alberta Ingenuity Postdoctoral Fellow**
University of Calgary (Canada).
Project Title: How do diversity and environmental variability influence the dynamics of ecological systems?
Advisor: Jeremy W. Fox.

EDUCATION

2006 **Doctorem Philosophiæ (Ph.D.)** – *Theoretical Ecology*
McGill University (Canada).
Advisor: Kevin S. McCann.
[*] *Awarded the Dean's Honour List Distinction.*
[*] *Nominated by McGill University for the Prix d'Excellence de l'ADESAQ (Assoc. of Deans of Graduate Studies in Quebec)*
[*] *Nominated by McGill University for the Prix d'Excellence de l'Académie des Grands Montréalais*

2002 **Master of Science (MSc.) –** *Theoretical Ecology*
University of Guelph (Canada).
Advisor: Peter Yodzis.

1999 **Bachelor of Science (BSc.) –** *Biological Science*
University of Guelph (Canada).
Advisor: Peter Yodzis

PUBLICATIONS

Submitted Manuscripts

Stump, S.M., and **Vasseur, D.A.** *submitted.* Why temporal variation in the abiotic factors seems unlikely to cause coexistence. *Ecological Monographs.*

Peer-Reviewed Articles

2022 Holdridge, E. and **Vasseur, D.A.** 2022. Intraspecific variation promotes coexistence under competition for essential resources. *Theoretical Ecology* 15(3): 225-244.

Buttay, L., **Vasseur, D. A.,** Gonzalez-Quiros, R., and Nogueira, E. *in press.* Liebig′s law can

account for a rapid transition to synchrony in an upwelling system diatom community. *Limnology and Oceanography.*

Vinton, A.C., and **Vasseur, D.A.** 2022. Resource limitation determines realized thermal performance in trophodynamic models. *Ecology Letters* 25(10): 2142-2155.

Stump, S., Song, C., Saavedra, S., Levine, J., and **Vasseur, D.A**. 2021. Synthesizing the effects of individual-level variation on coexistence. *Ecological Monographs.* 92(1): e01493.

2021 Layden, T., Kremer, C., **Vasseur, D.A.,** and Fey, S. 2022. Thermal acclimation influences the growth and toxin production of freshwater cyanobacteria. *Limnology and Oceanography Letters* 7: 34-42.

Fey, S., Kremer, C., and **Vasseur, D.A.** 2021. A theory of gradual plasticity enhances ecological predictions in variable thermal environments. *Ecological Monographs* 91(4): e01478.

Simon, F., and **Vasseur, D.A.** 2021. Variation cascades: resource pulses and the changing role of top-down effects across the frequency gradient. *Ecology* 102(4): e03227.

2020 **Vasseur, D. A.** 2020. *Climate change: Studying the effects of temperature on population and community dynamics. In* McCann, K.S., and Gellner, G. (eds.) *Theoretical Ecology: concepts and applications*. Oxford University Press.

Vinton, A.C., and **Vasseur, D.A.** 2020. Evolutionary tracking is determined by differential selection on demographic rates and density dependence. *Ecology and Evolution* 10(12): 5725-5736.

Song, C., Rohr, R., **Vasseur, D.A.**, Saavedra, S., 2020. Disentangling the effects of external perturbations on coexistence and priority effects. *Journal of Ecology* 1365-2745.13349

Okamoto, K.W., Amarasekare, P., Post, D., **Vasseur, D.A.**, Turner, P.E. 2019. The interplay between host community structure and pathogen life-history constraints in driving the evolution of host-range shifts. *Functional Ecology* 33(12): 2238-2353.

2019 Lu, M., **Vasseur, D.A**., Jetz, W. 2019. Beta diversity patterns derived from island biogeography theory. *American Naturalist* 194(3): E52-E65.

[*]Fey, S.B., [*]**Vasseur, D.A.**, Alujevic, K., Kroeker, K.J., Logan, M.L., O'Connor, M.I., Rudolf, V.H.W., DeLong, J.P., Peacor, S., Selden, R.L., Sih, A., Clusella-Trullas, S., 2019. Opportunities for behavioral rescue under rapid environmental change. *Global Change Biology*. https://doi.org/10.1111/gcb.14712
[*]Authors contributed equally

2018 Okamoto, K.W., Post, D.M., **Vasseur, D.A.**, and Turner, P.E. 2018. Managing the emergence of pathogen resistance via spatially targeted antimicrobial use. *Evolutionary Applications* **11(10)**: 1822-1841.

Woods, H. A., Kingsolver, J. G., Fey, S. B., and **Vasseur, D.A.** 2018. Uncertainty in geographical estimates of performance and fitness. *Methods in Ecology and Evolution*. **9(9)**: 1996-2008.

Wieczynski, D., Turner, P., & **Vasseur, D.A.** 2018. Temporally autocorrelated environmental fluctuations inhibit the evolution of stress tolerance. *American Naturalist* **191(6):** E195-E207.

Kremer, C.T.K., Fey, S., Arellano, A., & **Vasseur, D.A.** 2018. Gradual plasticity alters population dynamics in variable environments: thermal acclimation in the green alga *Chlamydomonas reinhartdii*. *Proceedings of the Royal Society of London, Series B.* **285 (1870)**: 20171942.

2017 Fox, J.W., **Vasseur, D.A.**, Cotroneo, M., Guan, L., and Simon, F. 2017. Population extinctions can increase metapopulation persistence. *Nature Ecology and Evolution* **1(9)**: 1271

2016 Dillon, M.E., Woods, H.A., Wang, G., Fey, S.B., **Vasseur, D.A.,** Telemeco, R.S., Marshall, K., and Pincebourde, S. 2016. Life in the frequency domain: the biological impacts of changes in climate variability at multiple time scales. *Integrative and Comparative Biology* **56(1)**: 14-30.

Fey, S., and **Vasseur, D.A.** 2016. Theoretical predictions for consumer-resource dynamics in variable thermal environments: integrating spatial and temporal variability into climate change ecology. *Ecology* **97(7):** 1690-1699.

Scranton, K., & **Vasseur, D.A.** 2016. Coexistence and emergent neutrality generate synchrony among competitors in fluctuating environments. *Theoretical Ecology* **9(3)**: 353-363.

Wieczynski, D., & **Vasseur, D.A.** 2016. Environmental fluctuations promote intraspecific diversity and population persistence via inflationary effects. *Oikos* **125**: 1173:1181.

Vasseur, D. A. & Messinger, S. A. 2015. *How does evolutionary history alter the relationship between biodiversity and ecosystem function? Pp. 55-73 In* Belgrano et al. *Aquatic functional diversity: an eco- evolutionary approach.* Elsevier.

Klauschies, T., **Vasseur, D.A.**, and Gaedke, U. 2016. Trait adaptation promotes species coexistence in diverse predator and prey communities. *Ecology and Evolution* **6(12):** 4141-4159.

2015 DeLong, J., Gilbert, B., Shurin, J.B., Savage, V.M., Barton, B.T., Clements, C.F., Dell, A.I., Greig, H.S., Harley, C.D.G., Kratina, P., McCann, K.S., Tunney, T.D., **Vasseur, D.A**., O'Connor, M.I. 2015. The body size dependence of trophic cascades. *American Naturalist* **185(3)**: 354-366.

2014 **Vasseur, D.A.,** Fox, J., Gonzalez, A., Adrian, R., Beisner, B., Helmus, M., Johnson, C., Kratina, P., Kremer, C., DeMazancourt, C., Miller, E., Nelson, W., Paterson, M., Rusak, J., Shurin, J., Steiner, C. 2014. Synchronous dynamics of zooplankton competitors prevail in temperate lake ecosystems. *Proceedings of the Royal Society of London, Series B.* **281 (1788)**: 20140633.
· *This paper was evaluated in the Faculty of 1000 Biology*

Gilbert, B., Tunney, T., McCann, K., DeLong, J., **Vasseur D.A.,** Savage, V., Shurin, J., Dell, A., Barton, B., Harley, C., Kharouba, H., Kratina, PP., Blanchard, J., Clements, C., Winder, M., Greig, H., O'Connor, M. 2014. A bioenergetic framework for the temperature dependence of trophic interactions. *Ecology Letters.* **17(8)**: 902-914.

Vasseur, D.A., DeLong, J.P., Gilbert, B., Greig, H.S., Harley, C.D.G., McCann, K.S., Savage, V.M., Tunney, T.D., & O'Connor, M.I. 2014. Increased temperature variation poses a greater risk to species than climate warming. *Proceedings of the Royal Society of London, Series B.* **281 (1779)**: 20132612.

DeLong, J. P., Hanley, T. & **Vasseur, D. A**. 2014. Predator-prey dynamics and the plasticity of predator body size. *Functional Ecology* **28(2)**: 487-493.

Weis, J. J. & **Vasseur, D. A.** 2014. Predation drives complementarity and transgressive overyielding of prey species at a regional scale. *Oikos* **123(1)**: 79-88.

DeLong, J. P., Hanley, T. & **Vasseur, D. A**. 2014. Competition and the density dependence of metabolic rates. *Journal of Animal Ecology.* **83**: 51-58.

2013 DeLong, J. P. & **Vasseur, D. A.** 2013. Linked exploitation and interference competition drives the variable behavior of a classic predator-prey system. *Oikos* **122(10)**: 1393-1400.

Fox, J.W., Legault, G., Einarson, J. A., and **Vasseur, D. A.** 2013. Nonlinear effect of dispersal rate on spatial synchrony of predator-prey cycles. *PLoS One* **8**(11): e79527.

2012 DeLong, J. P. & **Vasseur, D. A.** 2012 Size-density scaling and the links among consumer-resource interaction parameters. *Journal of Animal Ecology.* **81**(6): 1193-1201.

Yaari, G., Shnerb, N., Yossi, B., & **Vasseur, D.A**. 2012. Consistent scaling of persistence time in metapopulations. *Ecology* **93**(5): 1214-1227.

Vasseur, D. A. 2012."Biological Chaos and Complex Dynamics" *Oxford Bibliographies in Ecology.* Ed. Gibson, D. New York: Oxford University Press. DOI: 10.1093/OBO/9780199830060-0024.

Rocha, M., Gaedke, U., & **Vasseur, D.A.** 2012. Variation in abiotic and biotic forcing changes the relationship between functional traits and temporal dynamics. *PLoS One* **7**(12): 51257.

DeLong, J. P. & **Vasseur, D. A.** 2012. A mechanistic framework for predicting size-density scaling in consumers. *Ecology* **93**(3): 470-476.

DeLong, J. P. & **Vasseur, D. A**. 2012. Coexistence via resource partitioning fails to generate an increase in community function. *PLoS One* **7**(1): e30081.

2011 **Vasseur, D.A**., Amarasekare, P., Rudolf, V., and Levine J. 2011. Eco-evolutionary dynamics enable coexistence via neighbor-dependent selection. *American Naturalist* **178**(5): E96-E109.
· *This paper was evaluated in the Faculty of 1000 Biology*

Vasseur, D.A. & Fox, J.W. 2011. Adaptive dynamics of competition for nutritionally complementary resources: character convergence, displacement, and parallelism. *American Naturalist* **178**(4): 501- 514.

Bolnick, D.I, Amarasekare, P., Araujo, M., Bürger, R., Levine, J. Novak, M., Volker, H.W.R., Schreiber, S., Urban, M., **Vasseur, D.A.** 2011. Why intraspecific trait variation matters in community ecology. *Trends in Ecology and Evolution* **26**(4): 183-192.

DeLong, J.P., and **Vasseur, D.A.** 2011. Interference competition is common and mostly intermediate in magnitude. *BMC Ecology* **11**: 1.

Fox, J.W. **Vasseur, D.A.**, Hausch, S., and Roberts, J. 2011. Phase locking, the Moran effect, and distance- decay of synchrony: experimental tests in a model system. *Ecology Letters* **14**: 163-168.

Rocha, M., Gaedke, U., & **Vasseur, D.A.** 2011. Functionally similar species have similar dynamics. *Journal of Ecology* **99**: 1453-1459.

Rocha, M. **Vasseur, D. A.,** Hayn, M., Holschneider, M., and Gaedke, U. 2011. Variability patterns differ between standing stock and process rates.. *Oikos* **120**(1): 17-25.

2009 **Vasseur, D. A.** & Fox, J. W. 2009. Phase-locking and environmental fluctuations generate synchrony in a predator-prey community. *Nature* **460**: 1007-1010.
· This paper was evaluated in the Faculty of 1000 Biology

2008 Fox, J. W. & **Vasseur, D. A.** 2008. Character convergence under competition for nutritionally-essential resources: adaptive dynamics models. *American Naturalist* **172(**5): 667-680.

2007 **Vasseur, D. A.** & Fox, J. W. 2007. Environmental fluctuations can stabilize food web dynamics by increasing synchrony. *Ecology Letters* **10**: 1066-1074.
· This paper was evaluated in the Faculty of 1000 Biology

Vasseur, D. A., & Gaedke, U. 2007. Spectral analysis unmasks synchronous and compensatory dynamics in plankton communities. *Ecology* **88**(8): 2058-2071.

Vasseur, D. A. 2007a. Populations embedded in trophic communities respond differently to coloured environmental noise. *Theoretical Population Biology* **72**(2): 186-196.
· This paper was evaluated in the Faculty of 1000 Biology

Vasseur, D. A. 2007b. Environmental colour intensifies the Moran effect when population dynamics are spatially heterogeneous. *Oikos* **116**(10): 1726-1736.

Vasseur, D. A., & McCann, K. S. (editors). 2007. *The impact of environmental variability on ecological systems*. *Volume 2 - The Peter Yodzis Fundamental Ecology Series.* Springer, Dordrecht, 231p.

Vasseur, D. A. 2007c. Assessing the impact of environmental variability on trophic systems using an allometric frequency-resolved approach. *in* Vasseur, D. A., & McCann, K. S. (eds.) 2007. *The impact of environmental variability on ecological systems*. *Volume 2 - The Peter Yodzis Fundamental Ecology Series.* Springer, Dordrecht. pp. 41-60.

2005 **Vasseur, D. A.**, & McCann, K. S. 2005. A mechanistic framework for modeling temperature-dependent consumer-resource dynamics. *American Naturalist* **166**(2): 184-198.
· This paper was evaluated in the Faculty of 1000 Biology

Vasseur, D. A., Gaedke, U., & McCann, K. S. 2005. A seasonal alternation of coherent and compensatory dynamics occurs in phytoplankton. *Oikos* **110**(3): 507-514.

2004 **Vasseur, D. A.**, & Yodzis, P. 2004. The color of environmental noise. *Ecology* **85**(4): 1146-1152.

Other (non-refereed) contributions

Vasseur, D. A. & McCann, K. S. 2005. Resolution of Respect for Peter Yodzis. *Bulletin of the Ecological Society of America* **86**(4): 203-205.

AWARDS AND FELLOWSHIPS

2015	Research Stay at the ETH Zurich
2011	Alexander von Humboldt Foundation Fellowship for Research Stay in Germany (Experienced Researcher Award)
2010-2011	Yale University Junior Faculty Fellowship
2010	Yale University Endowed Postdoctoral Award – Brown Fellowship
2010	DAAD Faculty Research Visit grant (declined)

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2008	Yale University Endowed Postdoctoral Award – Brown Fellowship
2008	Killam Post-Doctoral Fellowship (declined)
2006-2008	Alberta Ingenuity Fund Post-Doctoral Fellowship
2006-2008	Natural Sciences and Engineering Research Council of Canada (NSERC) Post-Doctoral Fellowship
2005	Graduate Training Committee Travel Award (McGill University)
2005	Alma Mater Student Travel Award (McGill University)
2004	Best student poster – The 2004 Peter Yodzis Colloquium
2004	J. W. McConnell McGill Major Fellowship
2003	DAAD/International Quality Network Graduate Exchange Scholarship
2002	Natural Sciences and Engineering Research Council of Canada (NSERC) Post-Graduate Scholarship
2000	University of Guelph, Departmental Tuition Scholarship
1999	University of Guelph, Departmental Entrance Scholarship

FUNDED GRANT PROPOSALS

2022-2023 Yale Center for Natural Carbon Capture – Pilot Proposal: "Using temperature variation to improve biomass accumulation of photosynthetic algae"; ($100, 000)

2019-2022 *Collaborative Research: Uncovering the population and community level consequences of phenotypic plasticity.* CoPI with Sam Fey (Reed College) and Colin Kremer (Yale). National Science Foundation. NSF DEB #1856279 (Total: $693, 078; Yale: $392, 228)

2018-2019 *SG: Identifying patterns of trait variation that arise from competitive interactions.* National Science Foundation. NSF DEB #1754012 ($200, 000)

2011-2016 *How do ecological interactions modify the impact of environmental fluctuations on populations?* National Science Foundation. NSF DEB #1050803 ($426, 851)

2013-2016 Program in Eco-Evolutionary Dynamics sponsored by the Yale Institute for Biospheric Sciences (YIBS). Co-chairs: Vasseur, Post, Turner (~$370, 000)

PENDING GRANT PROPOSALS

TEACHING AND MENTORING

Current Postdoctoral Fellows and Associates
Carling Bieg (current)

Current Graduate Students
Alison Robey (PhD student); Abby Skwara (PhD Student)

Former Graduate Students and Postdocs
Erica Holdridge (PhD student), Anna Vinton (Ph.D student), Franz Simon (Ph.D student), Dainel Wieczynski (Ph.D), Zoe Cheung (BSc./MSc.), Marcia Rocha, Ph.D., co-supervised with U. Gaedke (University of Potsdam), John DeLong (Postdoc), Gur Yaari (Postdoc), Susanna Messinger (Postdoc), Katherine Scranton (postdoc), Samuel Fey (postdoc), Elodie Parain (postdoc), Colin Kremer (postdoc), Simon Stump (postdoc), Joanna Bernhardt (postdoc).

Former Undergraduate Students
Brittany Labbadia, Zachary Miller, Zoey Cheung, Jesse Korman, Alexander Downie

In addition, I have supervised more than 15 graduate student rotation projects, numerous undergraduate students research theses, and internship projects by local high school and college students.

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Teaching – Courses

2022 EEB 220a/520a EVST 223a – General Ecology (Yale University)
2021 EEB 220a/520a EVST 223a – General Ecology (Yale University)
2020 EEB 220a/520a EVST 223a – General Ecology (Yale University)
2019 EEB 220a/520a EVST 223a – General Ecology (Yale University)
2018 EEB 220a/520a EVST 223a – General Ecology (Yale University)
2018 EEB 320a/620a – Advanced Ecology (Yale University)
2017 EEB 545 – Responsible Conduct of Research (Yale University)
2017 EEB 220a/520a EVST 223a – General Ecology (Yale University)
2016 EEB 545 – Responsible Conduct of Research (Yale University)
2016 EEB 320a/620a – Advanced Ecology (Yale University)
2016 EEB 220a/520a EVST 223a – General Ecology (Yale University)
2015 EEB 220a/520a EVST 223a – General Ecology (Yale University)
2014 EEB 678 Quantitative Methods in Ecology and Evolution (Yale University)
2013 EEB 220a/520a EVST 223a – General Ecology (Yale University)
2012 EEB 220a/520a EVST 223a – General Ecology (Yale University)
SCI 198 – Perspectives in Science and Engineering – Faculty Discussant (Yale University)
EEB 678 Quantitative Methods in Ecology and Evolution (Yale University)
2011 EEB220a/520a, EVST 223a– General Ecology (Yale University)
2010 EEB712b – Foundations in Ecology (Yale University)
2009 EEB220a/520a – General Ecology (Yale University)
2009 EEB632b – The Analysis of Ecological Time Series (Yale University)
2008 Ecology 501 – Ecological and Evolutionary Applications (University of Calgary)
2005 Informal Lecture Series on Time Series Analysis and Forecasting (University of Guelph)

INVITED SEMINARS

2022 Yale Climate Day – Yale Institute for Biospheric Studies
2021 University of Florida (Virtual) lab Meeting – "Expanded Holt Lab Group"
2020 Gordon Research Conference, Ocean Global Change Biology (Keynote Speaker) – Postponed to '21
2019 EAWAG Distinguished Lecturer Series (Switzerland)
2018 Massachusetts Institute of Technology, 2nd Annual Mathematical and Community Ecology Meeting
2017 Clemson University, Department of Ecology and Evolutionary Biology
2016 University of California, Santa Cruz, Ecology and Evolutionary Biology
2016 Umea University (Sweden)
2016 University of Fribourg (Switzerland) -- Graduate Student Symposium Invited Speaker
2015 Yale University, Department Seminar
2015 ETH Zurich (E3B Seminar)
2014 Dartmouth College, Ecology and Evolutionary Biology
2014 University of Florida, Quantitative Spatial Ecology, Evolution and Environment (QSE3) IGERT Symposium
2014 University of Kansas, Ecology and Evolutionary Biology
2014 University of Georgia, Computational Ecology and Epidemiology Study Group
2013 Kellogg Biological Station, Michigan State University
2013 McMaster University
2013 University of Toronto
2012 EAWAG Zurich, Symposium on Ecological and evolutionary perspectives on biodiversity dynamics and community assembly
2012 Ecole Normale Superieure, Paris
2011 University of Hamburg, Institute for Hydrobiology and Fisheries Science
2011 University of Potsdam, Institute for Ecology and Ecosystem Modeling
2011 University of Osnabrück, Institute of Environmental Systems Research
2010 University of Amsterdam, Institute of Biodiversity and Ecosystem Dynamics

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2010 Stony Brook University, Department of Ecology and Evolution
2009 University of Nebraska-Lincoln, School of Biological Sciences
2009 Ecological Society of America Symposium: The Interplay of Ecology and Evolution at 'Micro' and 'Macro' Scales: Empirically-Motivated Theory.
2007 Yale University, Department of Ecology and Evolutionary Biology.
2007 Department of Fisheries and Oceans Workshop on Modelling Tools for Ecosystem Approaches to Management, Victoria BC.
2007 L'Académie des Grands Montréalais Dissertation Competition, Montreal.
2006 University of Calgary, Ecology and Evolutionary Biology.
2006 Pacific Institute for the Mathematical Sciences, Analysis of ecological systems under uncertainty, change, and adaptation: confronting models with data.
2005 McGill University, Aquatic Seminar Series.
2003 International Quality Network – Potsdam University, Interdisciplinary Colloquium.
2003 Potsdam University, Department of Physics.
2003 Potsdam University, Institute for Biochemistry and Biology.
2003 McGill University, Aquatic Seminar Series.

INVITED SYMPOSIUM PRESENTATIONS

Vasseur, D. A. 2020 Gordon Research Conference, Ocean Global Change Biology (Keynote Speaker – delayed to 2022)
Vasseur, D. A. 2016. Gordon Research Conference, Predator-Prey Interactions. "The temperature dependence of predator-prey interactions – session moderator.
Vasseur, D. A. 2016. SICB meeting (Portland). "Incorporating short-term thermal variability into projections of performance and population dynamics".
Vasseur, D. A. 2013. ESA meeting (Minneapolis). "Impacts of thermal variation on trophic systems; an eco-evolutionary perspective"
Vasseur, D. A. 2011. ESA meeting (Austin). "Eco-evolutionary dynamics enable coexistence via neighbour-dependent selection"
Vasseur, D. A. 2009. ESA meeting (Albuquerque). "Adaptive dynamics of character displacement in model of non-substitutable and partially substitutable resource competition".

CONTRIBUTED CONFERENCE PRESENTATIONS (as presenting author only)

Vasseur, D. A. 2022. ESA/CSEE (Montreal), "Accelerating demographic rates can bolster evolutionary rescue in warming environments". – oral presentation
Vasseur, D. A. 2019. Evolution (Providence), "Warming creates opportunities for evolutionary rescue due to accelerating demographic rates". – oral presentation.
Vasseur, D. A. 2014. American Society of Naturalists (Asilomar), "From transient to evolutionary stable states: how does biodiversity impact ecosystem function". – oral presentation.
Vasseur, D. A. 2012. ASN meeting (Ottawa). "Local adaptation favors spatial synchrony in metapopulations." – oral presentation.
Vasseur, D. A. 2010. ESA meeting (Pittsburgh). "Interspecific synchrony promotes coexistence in competitive communities" – oral presentation.
Vasseur, D. A. & Fox, J. W. 2009. ESF workshop "Improving ecological forecasts by incorporating hierarchical feedback mechanisms (Potsdam Germany). "Character displacement in models of non-substitutable and partially-substitutable resource competition" – poster presentation.
Vasseur, D. A. & Fox, J. W. 2008. CSEE meeting (Vancouver). "Phase-locking drives synchrony in an experimental predator-prey system" – poster presentation.
Vasseur, D. A. 2007. ESA meeting (San Jose). "Population Synchrony in Temporally and Spatially Correlated Environments; Environmental Colour Enhances the Moran Effect" – oral presentation.
Vasseur, D. A. 2006. ESA meeting (Memphis). "The balance of nature in natural environments: Is the weak interaction effect robust to environmental forcing?" – oral presentation.
Vasseur, D. A. 2006. Gordon Research Conference – Metabolic Theory of Ecology. "Linking trophic models

to metabolic theory; a framework for temperature-dependent dynamics." – poster presentation.

Vasseur, D. A. 2005. ESA-INTECOL joint meeting (Montreal). "A seasonal alternation of coherent and compensatory dynamics occurs in phytoplankton." – oral presentation.

Vasseur, D. A., Gaedke, U., & K. S. McCann. 2004. The Peter Yodzis Colloquium - Towards a comprehensive understanding of ecological systems. "A seasonal alternation of coherent and compensatory dynamics occurs in freshwater phytoplankton." – poster presentation.

PROFESSIONAL ACTIVITIES

- *Editorial Board Member:* American Naturalist (2017 - current); Ecology Letters (2014 - 2018); Ecology and Evolution (2013 - current)
- *Faculty Member* – Faculty Opinions (formerly F1000; 2018 - current).
- *Member of the Ecology and Evolutionary Biology Evaluation Group* (1503), National Sciences and Research Council of Canada (2019-2022)
- *Chair, Theoretical Ecology Section of the Ecological Society of America* (2015-2016)
- *Vice-Chair, Theoretical Ecology Section of the Ecological Society of America* (2014-2015)

Manuscripts Reviewed For:

Nature; Science; Nature Climate Change; Nature Communications; Proceedings of the National Academy of Sciences; PLoS Biology; Ecology Letters; American Naturalist; Ecology; Evolution; Ecological Monographs; Proceedings of the Royal Society of London Series B: Biological Sciences; Theoretical Ecology; Oikos; Journal of Animal Ecology; Limnology & Oceanography; PloS Computational Biology; Oceanologia; Marine Ecology Progress Series; Theoretical Population Biology; Environmental Biology of Fishes; Ecological Modelling; Journal of Experimental Marine Biology

Proposals Reviewed For:

National Science Foundation, Division of Environmental Biology (External and Panel Participant); Natural Sciences and Engineering Research Council of Canada; Netherlands Organisation for Scientific Research; Canadian Foundation for Innovation, Leaders Opportunity Fund; IP/OP Systems Biology WUR; Marsden Fund. Ageen program (France). Food For Thought Research Program (Funded by the Canada First Research Excellence Fund), Czech Science Foundation (GACR).

Working Group Involvement:

Participant in the CIEE funded working group: Ecology and Variability (2020-2021).

Participant in the NCEAS and CIEE funded working group: Thermal scaling and body size: the next frontier in climate change ecological theory (2012-2013).

Participant in EAWAG working group: Phytoplankton Community Assembly (2012).

Participant in the Canadian Institute of Ecology and Evolution (CIEE) working group: Predicting ecological change: multiscale analysis of plankton diversity and dynamics (2010-2011).

Participant in the National Institute for Mathematical and Biological Synthesis (NIMBioS) working group: Ecology of Niche Variation (2009-2011).

Participant in the European Science Foundation (ESF) working group: Improving Ecological Forecasts by Integrating Feedback Mechanisms (2009).

SELECTED UNIVERSITY AND DEPARTMENTAL SERVICE

- Biological Sciences Tenure and Promotions Committee (2022-current)
- Biological Sciences Area Committee (2022-current)
- Osborn Memorial Labs Renovation Committee (2022-current)
- Chair, Yale College Executive Committee (2019-2022)
- Yale Institute for Biospheric Studies, Hutchinson Program Theme 1 chair (2020-current)
- Yale College Dean Search Advisory Committee Member (2022)
- EEB Faculty Search Committees (2022, 2022, 2021 as chair, 2018)
- Yale Institute for Biospheric Studies, Small Grants Program Chair (2013-2020)
- Fact-Finder, Yale College Executive Committee (2018)
- Graduate School Disciplinary Committee (2017-2018)

- EEB Department, Director of Graduate Studies (2015-2018)
- Yale Scholar Awards Committee, Member (2010-2011)