Antoine Champetier
Researcher, Consultant
Modeling in ecological and agricultural economics

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Interests:

Modeling and data analysis in economics, ecology and epidemiology. Agricultural and resource economics and policy; pollination, invasive species, climate change, agent-based modeling, network analysis.

Employment and research experience

2022 to present	Scientific officer at the Swiss 3RCC.
2021 to 2022	Researcher: Epidemiological modeling, Veterinary Public Health Institute, University of Bern.
2017 to present	Consultant: Modeling in Economics and Ecology, Visiting Lecturer: Agricultural Policy, Microeconomics, UC Davis
2013-2016	Post-doctoral Researcher, Department of Environmental Systems Science, ETH Zurich
2010-2013	Post-doctoral Fellow, UC Agricultural Issues Center, UC Davis Agricultural Sustainability Institute,
2005- 2013	Research Assistant for Daniel A. Sumner.

Teaching experience

2017 to present	Agricultural Policy, (undergraduate)
2018	Microeconomics (undergraduate).
2014-2016	Agribusiness Management (undergraduate), Food Economics (graduate)
2012	Agricultural Policy (undergraduate).
2004-2009	Teaching Assistant: Financial Management of the Firm, Quantitative Analysis for Business Decisions, Microeconomics, Agricultural Policy (all undergraduate).

Education

2010	**Ph.D., Agricultural and Resource Economics, University of California, Davis**, Dissertation title: "The Bioeconomics of Pollination in Agriculture", Advisors: Daniel Sumner, James Wilen, and Richard Howitt.
2004	**Master of Engineering, AgroParisTech** École Nationale du Génie Rural, des Eaux et des Forêts.
2002	**Master of Engineering, AgroParisTech** Institut National Agronomique de Paris-Grignon.

Languages and programing

French, English, and Spanish: fluent; German and Portuguese: basic.
R, Matlab, GAMS, Stata, Microsoft Office, LaTeX: fluent; Python, Html, PHP, SQL: basic.

Peer-reviewed Publication

Salvioni, C., & Champetier, A. (2022). "A Survey of Experts' Opinions on the Management of the Small Hive Beetle in Italy". *Sustainability*, 14(12), 7004.

A. Champetier, (2021) "Environmental Economics of Pollination" *Oxford Research Encyclopedia of Environmental Science,* https://doi.org/10.1093/acrefore/9780199389414.013.750

A. Champetier, H. Lee and D.A. Sumner, (2019), "Are the Almond and Beekeeping Industries Gaining Independence?" *Choices Magazine*, 34(4)
http://www.choicesmagazine.org/UserFiles/file/cmsarticle_712.pdf

A. Champetier, H. Lee and D.A. Sumner, (2019), "Honey, Forage and Almond-Pollinating Honey Bees", *Choices Magazine*, 34(4) *http://www.choicesmagazine.org/UserFiles/file/cmsarticle_713.pdf*

A. Champetier and D.A. Sumner, (2019), "Marginal Costs and Likely Supply Elasticities for Pollination and Honey", *American Journal of Agricultural Economics,* 101(5):1373–1385, *https://doi.org/10.1093/ajae/aaz045*

A. Magrach, A. Champetier, S. Krishnan, V. Boreux, J. Ghazoul, (2019) "Uncertainties in the value and opportunity costs of pollination services" *Journal of Applied Ecology,* 56.7 (2019): 1549-1559.

H. Lee, D.A. Sumner, A. Champetier (2018), "Pollination Markets and the Coupled Futures of Almonds and Honey Bees: Simulating Impacts of Shifts in Demands and Costs", *American Journal of Agricultural Economics*, aay063, https://doi.org/10.1093/ajae/aay063

A. Champetier, D.A. Sumner, and J.E. Wilen (2015) "The Bioeconomics of Honey Bees and Pollination", *Environmental and Resource Economics* 60(1):143-164.

Other papers, book chapters, and reports

A. Champetier and A. Smith (2023) "Research animal use in Norway from 2018 to 2021: A preliminary report with emphasis on severity and purpose" 26pages ISBN:978-82-693192-0-0. https://norecopa.no/media/kepbpfxk/report_animal_use_2018-2021.pdf

D.A. Sumner, D Meyer, S. Somerville, A. Champetier et al. (2020) "Small Dairy Climate Change Research: An economic evaluation of strategies for methane emission reduction effectiveness and appropriateness in small and large California dairies" Report prepared for the California Department of Food & Agriculture
https://www.cdfa.ca.gov/oefi/research/docs/CDFA_SmallDairyResearch_FINAL_Report.pdf

A. Champetier. Podcast review for the *American Journal of Agricultural Economics* (2017) *National Public Radio. Planet Money [podcast]. Episode 756: The Bees Go to California. February 2017*. https://doi.org/10.1093/ajae/aax062

H. Lee, A. Champetier, D. Sumner, and J.K. Bond (2017) "Bee-conomics Revisited: a decade of new data is consistent with the market hypothesis" ARE Update, Vol. 20, No. 5 May/June 2017. Giannini Foundation of Agricultural Economics, University of California.

https://s.giannini.ucop.edu/uploads/giannini_public/52/4a/524a5514-9246-42d8-8475-315456076a2e/v20n5_1.pdf

A. Champetier, D. Sumner, T.P. Tomich (2016) “Underlying drivers of nitrogen flows in California” in *The California Nitrogen Assessment: Challenges and Solutions for People, Agriculture, and the Environmen*t. Contributing Authors: S Brodt, M Coley, VR Haden, M Kreith, JT Rosen-Molina, and K Thomas, http://asi.ucdavis.edu/programs/sarep/research-initiatives/are/nutrient-mgmt/california-nitrogen-assessment

A. Champetier and D.A. Sumner (2007) ”Agricultural Conservation and the 2007 Farm Bill: A California Perspective” Agricultural Issues Center Farm Bill Brief, http://aic.ucdavis.edu/research/farmbill07/AIC_FBIB_6Conservation.pdf

D.A. Sumner and A. Champetier (2007) ”Extrapolating Production Costs for Agricultural Commodities” Report for the United States Department of Agriculture Risk Management Agency. http://www.aic.ucdavis.edu/publications/Production-Cost-Extrapolation.pdf