

PERSONAL INFORMATION

Alain CARPENTIER



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Sexe M | Date de naissance 26/06/1968 | Nationalité French

POSITION Research Director at INRAE (France)

WORKING EXPERIENCE

01/2022 – Present Director of the Joint Research Unit, UMR SMART

INRAE, Paris Rennes

- Structures and Markets in Agriculture, Resources and Territories
- Institut National de Recherche pour l'Agriculture, l'Alimentation et l'Environnement (INRAE) and Institut Agro Rennes-Angers (IARA), Rennes (France)

Sector Research in economics (research, management, coordination).

09/2012 – 06/2007 Invited Professor in economics, IARA, Rennes

IARA, Rennes

- Professor in economics.
- Micro-economics, public economics ; agricultural production.

Sector Higher education (teaching)

09/2004 – 09/2011 Invited Professor in econometrics, ENSAI, Rennes

Ecole Nationale de la Statistique et de l'Analyse de l'Information, Rennes

- Professor in econometrics.
- Statistics, micro-econometric modelling

Sector Higher education (teaching)

07/2006 – Present Senior researcher, INRAE, Joint Research Unit UMR SMART

INRAE, Rennes

07/1995 -- Present Researcher, INRAE, Joint Research Unit UMR SMART

INRAE, Rennes

ÉDUCATION ET FORMATION

- 1995 Ph.D. in Economics (EHESS, Paris)
- 1993 Master “Economic analyses and policies” (EHESS-ENSAE-Sorbonne University, Paris)
- 1993 Statistician - Economist (ENSAE, Paris)
- 1991 Engineer in Agronomy (IARA, Rennes)

PERSONAL SKILLS

Mother tongue French

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	C1

Niveaux: A1/A2: utilisateur élémentaire - B1/B2: utilisateur indépendant - C1/C2: utilisateur expérimenté
[Cadre européen commun de référence pour les langues](#)

Communication skills

Good written communication skills gained through many years of writing research and transfer papers and reports, supervising student works including several PhD theses.
 Good oral communication skills gained through teaching, presenting research results at many scientific seminars and conferences as well as debating experience with private and public stakeholders.

Organisational / managerial skills

Good organisational / managerial skills gained through a few years of directing large research groups.
 Good skills to work in research teams of varying size and composition.

ADDITIONAL INFORMATION

Scientific expertise and support for public policies

- Several expertise activities for French Ministries (Prime Minister; Ministries of Agriculture, of Ecology), French Agency for Ecological Transition, the European Commission, the OECD,...
- Member of the Scientific Committees “Guidelines for pesticide and fertilizer authorizations” (2014-2015) and “Socio-economic analysis” (2021 – present) of ANSES (French Agency for Food, Environmental and Occupational Health & Safety)

Computer skills

Driving licence

- Good command of Microsoft Tools, statistical and modelling tools (SAS, GAMS).
- A (motorbike), B (car)

Publications (documents in English)

Scientific articles (selection)

- Koutchadé, O.P., A. Carpentier and F. Féménia, 2021. Modelling corners, kinks and jumps in crop acreage choices: impacts of the UE support to protein crops. *American Journal of Agricultural Economics*, 103(4), 1502–1524.
- Vialatte A., A. Tibi, V. Angeon, L. Bedoussac, F. Fabre, D. Bohan, D. Bougherara, A. Carpentier et al., 2021. Promoting crop pest control by plant diversification in agricultural landscapes: A conceptual framework for analysing feedback loops between agro-ecological and socio-economic effects. *Advances in Ecological Research*, 65, 133–165.
- Koutchadé, O.P., A. Carpentier and F. Féménia, 2018. Modeling Heterogeneous Farm Responses to European Union Biofuel Support with a Random Parameter Multicrop Model. *American Journal of Agricultural Economics*, 100(2), 434–455.
- Latruffe, L., B. E. Bravo-Ureta, A. Carpentier, Y. Desjeux and V. H. Moreira, 2017. Subsidies and technical efficiency in agriculture: evidence from European dairy farms. *American Journal of Agricultural Economics*, 99(3), 783–799.
- Reboud, X., A. Carpentier, J.-N. Aubertot, S. Lemarié, N. Dubois Peyrard, N. Turenne, C. Roussey, S. Couture, V. Cellier, S. Gaba, R. Sabbadin, M.-J. Cros, P. Toquebeuf, O. Bonroy, M. Barbier et E. Charbonnier, 2016. Ce que l'épidémiosurveillance apporte ou n'apporte pas encore à la moindre dépendance aux produits phytopharmaceutiques. *Innovations Agronomiques*, 59(Août), 81–91.
- Carpentier, A., A. Gohin, P. Sckokai and A. Thomas, 2015. Modelling agricultural production choices. A literature survey. *Review of Agricultural and Environmental Studies*, 96(1), 131–165.
- Carpentier, A. and E. Letort, 2014. Modelling acreage decisions within the Multinomial Logit framework: profit functions and discrete choice models. *Environmental and Resource Economics*, 59(4), 537–559.
- Carpentier, A. and E. Letort, 2012. Accounting for heterogeneity in multi-crop micro-econometric models. Implications for variable input demand modeling. *American Journal of Agricultural Economics*, 94(1): 209–224.
- Blazy, J.-M., A. Carpentier and A. Thomas, 2011. The Willingness to Adopt Agro-ecological Innovations: Application of Choice Modelling to Caribbean Banana Planters. *Ecological Economics*, 72, 140–150.
- Féménia F., A. Gohin and A. Carpentier, 2010. Measuring the decoupling of farm direct payments: revisiting the wealth effects. *American Journal of Agricultural Economics*, 92(3), 836–848.
- Bonnieux, F. et A. Carpentier, 2007. La méthode des programmes pour l'évaluation des biens environnementaux. *Revue d'Economie Politique*, 17(5), 699–718.
- Carpentier, A., C. Nauges, A. Reynaud et A. Thomas, 2006. Effets de la délégation sur le prix de l'eau potable, une approche par les effets de traitement. *Economie et Prévision*, 174(3), 1–19.
- Carpentier, A. and H. Guyomard, 2001. Unconditional Elasticities in Two-Stage Demand Systems. *American Journal of Agricultural Economics*, 83(1), 222–229.
- Oude Lansink, A. O. and A. Carpentier, 2001. Damage Control Productivity: An Input Abatement Approach. *Journal of Agricultural Economics*, 52(3), 11–22.
- Bonnieux F., Carpentier A., Weaver R. D., 1998. Reducing soil contamination : economic incentives and potential benefits. *Agriculture, Ecosystems & Environment*, 67 (2-3), 275-288
- Carpentier, A. and R.D. Weaver, 1997. Damage Control Productivity: Why Econometrics Matters. *American Journal of Agricultural Economics*, 79(1), 47–61.
- Carpentier, A. and R.D. Weaver, 1996. Heterogeneity in Production Technologies and Estimation of Pesticide Productivity. *Canadian Journal of Agricultural Economics*, 219–236.
- Carpentier, A., 1996. L'Efficacité Privée et Publique de la Gestion du Risque Phytosanitaire: le Rôle de l'Information. *Cahiers d'Economie et de Sociologie Rurales*, 39-40, 37–61.
- Guyomard, H., Baudry, M. and A. Carpentier, 1996. Estimating Crop Supply in the Presence of Farm Programmes: Application to the Common Agricultural Policy. *European Review of Agricultural Economics*, 23(4), 401–420.

Recent papers presented in scientific meetings

Fadhuile A., Carpentier A., 2023. Ex ante Evaluation of Banning Glyphosate in Field Crops: A Scenario-based approach. XVII EAAE Congress, European Association of Agricultural Economists (EAAE), Rennes, France (2023-08-29 - 2023-09-01)

Carpentier A., Femenia F., Koutchade O. P., Guyomard H., 2023. A Tax-and-Refund System for Reducing Pesticide Use in EU Agriculture: Promising Simulation Results for the French Arable Crop Sector. XVII EAAE Congress, Rennes, France (2023-08-29 - 2023-09-01)

Koutchade O. P., Femenia F., Carpentier A., 2023. Variable Input Allocation Among Crops: A Time-Varying Random Parameters Approach. XVII EAAE Congress, Rennes, France (2023-08-29 - 2023-09-01)

Carpentier A., Reboud X., 2023. Pest Management under Risk: Behavioral Insights from Prospect Theory and Wheat Protection in France. XVII EAAE Congress, Rennes, France (2023-08-29 - 2023-09-01)

Devilliers E., Koutchade O. P., Carpentier A. (2022-06-02). Accounting for Latent Cropping Management Practices Choices in Crop Production Models: a Random Parameter Hidden Markov Model Approach. 38^{èmes} Journées de Microéconomie Appliquée, Rennes, France (2022-06-02 - 2022-06-03).

Sodjahn I. H. R., Carpentier A., Koutchade O. P., Femenia F. (2022-07-21). Economic value of the agronomic effects of crop diversification: Estimation based on farm cost accounting data. American Association of Agricultural Economics Annual Meeting, Anaheim (California), USA (2022-07-21 - 2022-08-22).

Book chapters

Bazoche P., Carpentier A., Fadhuile A., Femenia F., Gendre C., Grimonprez B., Hannachi M., Jacquet F., Jouan J., Sauquet A. et al., 2022. Les leviers politiques et organisationnels. In : Zéro pesticide : un nouveau paradigme de recherche pour une agriculture durable. Éditions Quae, 195-227.

Bui S., Lamine C., Carpentier A., de Sainte Marie C., Doussan I., 2011. La mobilisation des acteurs publics et privés. In : Repenser la protection des cultures. Editions Quae, 250 p.

de Sainte Marie C., Carpentier A., Doussan I., Deverre C., Paratte R., 2011. Le rôle des politiques publiques dans la transaction vers la protection intégrée. In : Repenser la protection des cultures. Editions Quae, 250 p.

Lamine C., Bui S., Carpentier A., de Sainte Marie C., Doussan I., 2011. La mobilisation des acteurs publics et privés. In : Repenser la protection des cultures. Editions Quae, 250 p.

Bonnieux F., Carpentier A., Desaignes B., 2000. Comportement des Français face à la protection de l'environnement. (résultats d'une enquête réalisée en 1999). In : Comportements des Français face à la protection de l'environnement. 113-139.

Carpentier A., Rainelli P., 1997. Exemples de politiques agricoles et de mesures visant les pesticides dans les pays de l'OCDE : France. In : Agriculture, pesticides et environnement : quelles politiques ?. OCDE,

Carpentier A., Weaver R. D., 1997. Information, production risk and chemicals : a panel data approach. In : Risk management strategies in agriculture. State of the art and future perspectives. Wageningen Agricultural University.

Carpentier A., 1994. A pesticide ban in the context of intensive cropping technology. The case of the French crop sector. In : The economic consequences of a drastic reduction in pesticide use in the EU. Wissenschaftsverlag Vauk.

Expertise (selection)

Vialatte A., Martinet V., Tibi A., Alignier A., Angeon V., Bedoussac L., Bohan D., Bougherara D., Carpentier A., Castagneyrol B. et al., 2023. Protéger les cultures en augmentant la diversité végétale des espaces agricoles. Rapport scientifique de l'Expertise scientifique collective. (INRAE), 954 p.

Carpentier A., Fadhuile A., Roignant M., Blanck M., Reboud X., Jacquet F., Huyghe C., 2020. Alternatives au glyphosate en grandes cultures. Evaluation économique. (INRAE), 161 p.

Femenia F., Carpentier A., Gohin A., J. Helming 2017. Feasibility study on modelling crop rotation effects. Report for the JRC, Sevilla, Spain (Wageningen University and Research Centre), 172 p.

Gohin A., Carpentier A., Koutchade O. P., Bareille F., 2015. Amélioration de la représentation de l'offre agricole dans les modèles macroéconomiques. (Agence de l'Environnement et de la Maîtrise de l'Energie), 122 p.

Butault J.-P., Delame N., Jacquet F., Rio P., Zardet G., Benoit M., Blogowski A., Bouhsina Z., Carpentier A., Desbois D. et al., 2009. Ecophyto R&D. Vers des systèmes de culture économes en pesticides. Volet 1. Tome VI : analyse ex ante de scénarios de rupture dans l'utilisation des pesticides. (Ministère de l'Ecologie, de l'Energie, du Développement Durable et de la Mer), 90 p.

Carpentier A., Dedryver C.-A., Reau R., Volay T., Butault J.-P., Darmency H., Barbier J.-M., Debaeke P., Delos M., Gary C. et al., 2009. Ecophyto R&D. Vers des systèmes de culture économes en pesticides. Volet 1. Tome I : méthodologie générale. (INRA), 35 p.

Aubertot J.-N., Barbier J.-M., Carpentier A., Gril J.-N., Guichard L., Lucas P., Savary S., Voltz M., Savini I., 2005. Pesticides, agriculture, environnement. Réduire l'utilisation des pesticides et en limiter les impacts environnementaux. Rapport. (INRA), 688 p.