

Noël BONNEUIL

Ouvrages entiers, thèse

- Bonneuil, N. (1997) *Transformation of the French Demographic Landscape, 1806-1906*. Oxford: Clarendon Press, 256 pages.
- Bonneuil, N. (1997) *Introduction à la modélisation démographique*. Paris : Armand Colin, Collection U, 128 pages.
- Bonneuil, N. (1991) *Reconstruction et dynamique des populations du passé*. Thèse en Mathématiques Appliquées aux Sciences de l'Homme. Paris : Éhess.
- Kim, Younga and N. Bonneuil (2020) *Analyse dynamique de l'emploi instable*, [en coréen]. Sicheong-daero, Corée du Sud : Institut coréen du travail.

Articles dans les revues scientifiques à comité de lecture

Bonneuil, N. (forthcoming) Gibsonian congruence as a viability problem, with application to patient monitoring, anticipating longevity, and economic time inconsistency, *Differential Equations and Dynamical Systems*

Bonneuil, N. (forthcoming) Escalation to conflict as an ongoing process: the case of July 1914, *Journal of Mathematical Sociology*

Bonneuil, N. and Younga Kim (forthcoming) When households spend more than they earn: overcoming deficit with institutions, relatives, or selling property? *Forum for Social Economics*

Bonneuil, N. and Elena Fursa (2023). Between economy and social coercion: nuptiality in transition. The case of the Don Army Territory (Southern Russia), 1867–1916. *Journal of Family History*, 48(2), 115–144.

Bonneuil, N. and Elena Fursa (2023) Seasonal fluctuations of age classes, with application to South Russia, 1896-1897, *Mathematical Population Studies*. 30(1), 53–72.

Bonneuil, N. (2022) Optimal control of genetic diversity in the Moran model with population growth, *Journal of Biological Systems* 30(01), 27-50.

Bonneuil, N. and Younga Kim (2022) Cognitive bias in anticipating mortality risk affects the subjective quality of life and consumption-related lifestyle, *Journal of Human Behavior in the Social Environment* 32(8), 981-1001.

Bonneuil, N. (2021) Optimal age- and sex-based management of the queue to ventilators during the Covid-19 crisis, *Journal of Mathematical Economics* 93, 102494.

- Bonneuil, N. and Younga Kim (2021) Arbitrage between consumption and saving for bequest: the role of subjective expected survival and satisfaction with the quality of life, South Korea 2008-2014, *Macroeconomic Dynamics* 25(4), 998-1019.
- Bonneuil, N. and Elena Fursa (2021) Nuptiality to regulate the commons? The case of the Don Cossacks (south Russia), 1867-1916, *Oxford Economic Papers* 73(2), 698-719.
- Bonneuil, N. and Elena Fursa (2021) Seasonal components of infant mortality at the onset of the transition reveal the role of water-borne and air-borne diseases: the case of the Don Army Territory (Southern Russia), 1872-1915, *Historical Methods* 54(1), 44–62.
- Bonneuil, N. and Raouf Boucekkine (2020) Genetic diversity and its value: conservation genetics meets economics, *Conservation Genetics Resources* 12, 141–151.
- Bonneuil, N. and Younga Kim (2020) Who (still) cares? Patterns of informal caregiving to elderly dependents in South Korea 2006-2012, *Asian Population Studies* 16(1), 17-33.
- Bonneuil, N. and Younga Kim (2019) Socio-economic and health determinants of transitions to adult dependency in South Korea, 2008-2014, *Public Health* 173, 130-137.
- Bonneuil, N. (2019) Health component of inequalities associated with income mobility over the life cycle. *Social Indicators Research* 141(1), 391-411.
- Bonneuil, N. (2018) Population growth and Nash equilibria under viability constraints in the commons, *Journal of Optimization Theory and Applications* 176, 478–491.
- Bonneuil, N. and Elena Fursa (2018) Optimal seasonality of conception inferred from marriage and birth time series in populations with no contraception. *Mathematical Methods in the Applied Sciences* 41 (3), 1125–1135.
- Bonneuil, N. and Raouf Boucekkine (2017) Longevity, age-structure, and optimal schooling. *Journal of Economic Behavior and Organization* 136, 63–75.
- Bonneuil, N. and Elena Fursa (2017) Learning hygiene: mortality patterns by religion in the Don Army Territory (Southern Russia), 1867-1916, *Journal of Interdisciplinary History* XLVII(3), 287–332.
- Bonneuil, N. and Raouf Boucekkine (2017) Viable Nash equilibria in the problem of common pollution, *Pure and Applied Functional Analysis* 2(3), 427-440.
- Bonneuil, N. and Younga Kim (2017) Precarious employment among South Korean women: Is inequality changing with time? *Economic and Labour Relations Review* 28(1), 20-40.
- Bonneuil, N. (2017) Maintain and acquire: the viability principles in population economics, *Revue d'économie politique* 127(2), 153-172.

Bonneuil, N. (2017) Reconstruction of populations by stochastic optimization: sensitivity analysis, *Mathematical Population Studies* 24(3), 181-189.

Bonneuil, N. (2016) Arrival of courtly love: moving in the emotional space, *History and Theory* 55, 2 (May), 253-269.

Bonneuil, N. and Raouf Boucekkine (2016) Optimal transition to renewable energy with threshold of irreversible pollution, *European Journal of Operational Research* 248, 257–262.

Bonneuil, N. (2015) Emotions as dynamic systems in viability sets, *Mathematical and Computer Modelling of Dynamical Systems* 21(5), 460-479.

Bonneuil, N. and Manuela Martini (2015) Career advancement in a family-owned French construction firm under changing labor legislation and market demand, 1946-1985, *Family Business Review* 28(1), 41-59.

Bonneuil, N. and Raouf Boucekkine (2014) Viable Ramsey economies, *Canadian Journal of Economics* 47(2), 422-441.

Bonneuil, N. (2014) Morphological transition of schooling in 19th century France, *Journal of Mathematical Sociology* 38, 95-114.

Bonneuil, N. and Elena Fursa (2013) Secularisation and confessional components of the seasonality of marriage in South Russia, 1867-1916, *Continuity and Change* 28(1), 51-88.

Bonneuil, N. (2013) Early warning to insolvency in the pension fund: the French case, *Risks* 1, 1-13.

Bonneuil, N. (2013) Viability in population economics, *Mathematical Economic Letters* 1(1), 17-24.

Bonneuil, N. (2013) Viabilité, probabilités, induction, *Tracés* (éditions de l'ENS) 24, 71-84.

Bonneuil, N. and Elena Fursa (2012) Optimal marriage fitting for imperfect data, *Journal of Optimization Theory and Applications* 153(2), 532-545.

Bonneuil, N. (2012) Multiallelic polymorphism maintained by unpredictable migration and selection, *Journal of Theoretical Biology* 293, 189-196.

Bonneuil, N. (2012) Maximum under continuous-discrete-time dynamic with target and viability constraints, *Optimization* 61(8), 901-913.

Bonneuil, N. and Blandine Bril (2012) The dynamics of walking acquisition, *Infant Behavior and Development* 35, 380-392.

Bonneuil, N. (2012) Computing reachable sets as capture-viability kernels in reverse time, *Applied Mathematics* 3(11), 1593-1597.

Bonneuil, N. and Elena Fursa (2011) Optimal population path fitting for flawed vital statistics and censuses, *Journal of Optimization Theory and Applications* 148(2), 301-317.

Bonneuil, N. (2010) The mathematics of time in history, *History and Theory* 49, 27-45.

Bonneuil, N. (2010) Diversity of preferences in an unpredictable environment, *Journal of Mathematical Economics* 46, 965-976.

Bonneuil, N. (2010) Family Regulation as a moving target in the demographic transition, *Mathematical Social Sciences* (Elsevier) 59, 239-248.

Bonneuil, N. (2010) Demographic change in Europe: consequences on family, health, and pension policies, *Panorama*, 01/2010 special issue "Ageing and Politics", 119-138.

Bonneuil, N. (2009) Do historians make the best futurists? *History and Theory* 48, 98-104.

Bonneuil, N. and Margarita Medina (2009) Between tradition and modernity: the transition of contraception in Colombia, *Desarrollo y Sociedad* 64, 119-151.

Bonneuil, N. and Patrick Saint-Pierre (2008) Beyond optimality: managing children, assets, and consumption over the life cycle, *Journal of Mathematical Economics* 44 (3-4), 227-241.

Bonneuil, N., Arnaud Bringé, and Paul-André Rosental (2008) Familial components of first migrations after marriage in nineteenth century France, *Social History* 33(1), 36-59

Bonneuil, N. (2007) Ageing laws for the human frontal cortex, *Annals of Human Biology* 34-4, 484-492.

Bonneuil, N. and Chouaa Dassouki (2007) Economics, geography, family planning and rapidity of change in the demographic transition: the case of the Egyptian muhafazas 1960-1996, *Journal of Developing Areas* 40-2, 185-210.

Bonneuil, N. (2006) Computing the viability kernel in large state dimension, *Journal of Mathematical Analysis and Applications* 323(2), 1444-1454.

Bonneuil, N. and Chouaa Dassouki (2006) Women's education and diffusion of the fertility transition: the case of Egypt 1960-1996 in 4905 administrative subdivisions, *Journal of Population Research* 23-1, 27-39.

Bonneuil, N. (2005) Fitting to a distribution of deaths by age with application to paleodemography, *Current Anthropology* 46, 29-45.

Bonneuil, N. (2005) History and dynamics: marriage or *mésalliance*?, *History and Theory* 44(2), 265-270.

Bonneuil, N. and Patrick Saint-Pierre (2005) Population viability in three trophic-level food chains, *Applied Mathematics and Computation* 169/2, 1086-1105.

Bonneuil, N. and Romina Boarini (2004) Preserving transfer benefit for present and future generations, *Mathematical Population Studies* (G. Feichtinger and V. Veliov editors) 11(3-4), 181-204.

Bonneuil, N. and Patrick Saint-Pierre (2004) The hybrid guaranteed viability capture basin algorithm in economics, in *Hybrid Systems: Computation and Control*, R. Alur and G. J. Pappas (eds), *Lecture Notes in Computer Science* 2993. Berlin: Springer Verlag, 187-202.

Bonneuil, N. (2004) Repertoires, frequentism, and predictability, *History and Theory* 43(1), 117-123.

Bonneuil, N. (2003) Making ecosystem models viable, *Bulletin of Mathematical Biology* 65, 1081-1094.

Bonneuil, N. and Patrick Saint-Pierre (2002) Minimal number of generations out of polymorphism in the one-locus two-allele model with unpredictable fertilities, *Journal of Mathematical Biology* 44-6, 503-522.

Aubin, Jean-Pierre, Bonneuil, N., Frank Maurin, and Patrick Saint-Pierre (2001) Viability of pay-as-you-go systems, *Journal of Evolutionary Economics* 11, 555-571.

Bonneuil, N. (2001) History, differential inclusions, and narrative, *History and Theory* 40, 101-115.

Grimm, Michael and N. Bonneuil (2001) Labour market participation of French women over the life-cycle, 1935-1990, *European Journal of Population* 17(3), 235-260.

Bonneuil, N. (2000) Viability in dynamic social networks, *Journal of Mathematical Sociology* 24(3), 175-182.

Aubin, Jean-Pierre, Bonneuil, N., and Frank Maurin (2000) Non-linear structured population dynamics with co-variates, *Mathematical Population Studies* 9(1), 1-31.

Bonneuil, N. and Patrick Saint-Pierre (2000) Protected polymorphism in the two-locus haploid model with unpredictable fitnesses, *Journal of Mathematical Biology* 40(3), 251-277.

Bonneuil, N. and Nadia Auriat (2000) Fifty years of ethnic conflict and cohesion, *Journal of Peace Research* 37(5), 563-581.

Bonneuil, N. (2000) Les modèles de population à l'épreuve de l'histoire, *Annales de démographie historique* 2, 143-152.

Bonneuil, N. and Paul-André Rosental (1999) Changing social mobility in 19th century France, *Historical Methods* Spring 32(2), 53-73.

Bonneuil, N., (1998) Population paths implied by the mean number of pairwise nucleotide differences among mitochondrial DNA sequences, *Annals of Human Genetics* Jan 62, 61-73.

Bonneuil, N. et Patrick Saint-Pierre (1998) Domaine de victoire et stratégies viables chez les pêcheurs décrits par l'anthropologue Fredrik Barth, *Mathématiques et sciences humaines* 142, pp 43-66.

Bonneuil, N. (1998) Games, equilibria, and population regulation under viability constraints: an interpretation of the work of the anthropologist Fredrik Barth, *Population English Selection*, 151-179.

Bonneuil, N. (1998) Traitement des données manquantes dans les séries issues des registres paroissiaux, *Population*, no spécial Histoire 1-2, 249-272.

Bonneuil, N. (1998) Reconstruire la population féminine de l'Hérault de 1856 à 1906 à partir des données de la Statistique générale de la France, *Population* 3, 517-533.

Bonneuil, N. (1997) Jeux, équilibres, et régulation des populations sous contraintes de viabilité : une lecture de l'œuvre de l'anthropologue Fredrik Barth, *Population* 4, 947-976.

Bonneuil, N. et Katharina Müllers (1997) Viable populations in a prey-predator system, *Journal of Mathematical Biology* 35, 261-293.

Bonneuil, N., Antoine Clerget, et Françoise Clerget-Darpoux (1997) Variable age of onset in insulin-dependent diabetes mellitus by the marker-association-segregation- χ^2 Method, *American Journal of Human Genetics*, July, 61, 223-227.

Mansutti Rodriguez, Alexander y N. Bonneuil (1996) Dispersión y asentamiento interfluvial : dos razones de sobrevivencia étnica en el Orinoco Medio del post-contacto, *Antropologica* 84, 43-72.

Llosa, Carmen B. y N. Bonneuil (1995) Elementos para la reconstrucción de la población del pasado en los andes, *Revista Andina*, 22 (Julio), Cusco, Peru, 31-38.

Bonneuil, N. (1994) Malthus, Boserup and population viability, *Mathematical Population Studies* 4(5), 107-119.

Bonneuil, N. (1994) Capital accumulation, inertia of consumption and norms of reproduction, *Journal of Population Economics* 7, 49-62.

Brouard Nicolas and N. Bonneuil (1992) How reporting delay, duration of follow-up and number of cases affect the estimates of the incubation time of transfusion-associated AIDS, *Mathematical Population Studies* 3(3), 189-198.

Bonneuil, N. (1992) Attractors and confiners in demography, *Annals of Operation Research* 37, 17-32.

Houdaille, Jacques et N. Bonneuil, (1992) Migrations matrimoniales en France (1740-1829), *Annales de Démographie Historique*, 295-306.

Bonneuil, N. (1991) Temporalités en démographie historique, *Histoire et Mesure*, VI-1/2, 137-148.

Bonneuil, N. (1990) Turbulent dynamics in a 17th century population, *Mathematical Population Studies* 2(4), 289-311.

Bonneuil, N. (1990) Contextual and structural factors in fertility behaviour, *Population*, English selection, 69-92.

Bonneuil, N. and Philippe Fargues (1989) Predicting the vagaries of mortality: causes of deaths in Bamako 1974-1985, *Population Bulletin of the United Nations* 28, 58-94.

Bonneuil, N. (1989) Démographie du personnel : effet de structure sur l'évolution de la masse salariale dans une entreprise à forte mobilité, *Population* 6, 1101-1120.

Bonneuil, N. (1989) Cohérence comptable des tableaux de la Statistique Générale de la France, 1801-1906, *Population* 4-5, 809-840.

Bonneuil, N. (1989) Conjoncture et structure dans les comportements de fécondité, *Population* 1, 135-158.

Pison G. et N. Bonneuil, (1988) The impact of crowding on measles mortality. Evidence from Bandafassi Data (Senegal), *Review of Infectious Diseases* 10/2, 468-470.

Bonneuil, N., (1987) Construction de taux de létalité en l'absence des données de mortalité, *Population* 42(4-5), 746-753.

Bonneuil, N. et Jean-Noël Biraben (1986) Population et société en Pays de Caux au XVIIIe siècle, *Population* 6, 937-960.

Bonneuil, N. (1986) Aux frontières de l'économie et de la biologie, *Population* 6, 1086- 1094.

Chapitres d'ouvrage

Bonneuil, N. (2010) Viability and optimality in vintage models, in R. Boucekkine, N. Hritonenko, Y. Yatsenko, *Optimal Control of Age-structured Populations in Economy, Demography, and the Environment*, New York: Taylor and Francis, pp. 108-125.

Bonneuil, N. (2008) The mathematics of maintenance and acquisition, in J. Chen and C. Guo (ed), *Ecosystem Ecology Research Trends*, New York: Nova Science Publishers, pp. 153-175.

Boëlle, P.-Y., Bonneuil, N., Françoise, J.-P., Langlais, M., et Pakdaman, K. (2006) Épidémiologie théorique : modèles mathématiques et maladies transmissibles, in *L'épidémiologie humaine, conditions de son développement, et rôle des mathématiques*, ed by A.-J. Valleron. Paris : Académie des Sciences, EDP Sciences.

Bonneuil, N. (2002) History, Differential inclusions, and narrative, in *The return of Science: Evolution, History, and Theory*, ed by Philip Pomper and David Gary Shaw. New York, Oxford: Rowman & Littlefield Publishers, pp. 215-232.

Bonneuil, N. (1995) Viability of demographic behaviour and the baby-boom, in *Chaos and complexity*, Edts Frontières, edited by J. Tràn Thanh Vân, P. Bargé, R. Conte et M. Dubois.

Bonneuil, N. (1993) The trend method applied to English data, *Old and New Methods in Historical Demography*, Cambridge University Press, eds D. Reher et R.S. Schofield, pp. 57-65.

Bonneuil (1993) La dynamique des populations : des cycles aux attracteurs, in *Temporalités urbaines*, édité par D. Pumain et B. Lepetit, pp. 91-111.

Bonneuil (1992) Démographie de la nuptialité au XIXe siècle, in *La société française au XIXe siècle*, dirigé par J. Dupaquier et D. Kessler, Fayard, pp. 83-119.

Bonneuil, N. (1992) Cohérence démographique et non-identifiabilité de la rétro-projection, in *Modèles de la démographie historique*, édité par A. Blum, N. Bonneuil et D. Blanchet, Ined, Congrès et Colloques 11, pp. 99-108.

Bonneuil, N. (1991) Modéliser les fluctuations temporelles en démographie : du cycle au chaos, in *Spatial Analysis and Population Dynamics*, John Libley et Ined éditeurs.

Blum A. and Bonneuil, N. (1987) Projections rétrospectives des populations du passé, in *Cahier Travaux et Documents* 116, PUF.

Articles de vulgarisation

Bonneuil, N. (2006) Sauvy et notre avenir démographique, commentaire d'un entretien filmé d'Alfred Sauvy, Musée de la Villette.
<http://www.ina.fr/fresques/jalons/notice/InaEdu01441/alfred-sauvy--notre-avenir-demographique>

Bonneuil, N. (2005) Démographie, in *Dictionnaire culturel Le Robert*. Paris : Le Robert, 1001-1006.

Bonneuil, N. (2005) Statistiques, in *Dictionnaire culturel Le Robert*. Paris : Le Robert, 2240-2243.

Bonneuil, N. (2003) La démographie est-elle maîtrisable ?, *Pour la Science*, spécial Complexité, décembre, 148-151.