

LIDAM Success Stories #6 in 2020 !

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LIDAM Success Stories #6
April 22, 2020



LIDAM Success Stories ! #6

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January - March 2020



Flashback on the last three months...

Dear LIDAM members,

I hope you had some time to relax during the Easter break.

By reading this Newsletter, you will see how some of our individual and collective efforts have been rewarded during the last three months.

In particular, LIDAM is proud of :

- Juliana, Manon, Sonia, Alexandre and Riccardo, our outstanding Ph.D. students who have defended their theses and to whom we wish good luck for the future;

- Catherine, Antoine, Bertrand and Eugene, who are putting their talent and expertise at the service of the community to deal with COVID-19 crisis;
- David, who just obtained a prestigious ERC Advanced Grant.

Enjoy the reading!

Fabio Mariani
LIDAM President



Prizes & Awards:



Ignacio Aravena (CORE): former PhD at CORE won the [Arpa E-Grid Optimization](#) - Promotor: Anthony Papavasiliou

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Catherine Legrand (ISBA): was designated member of the Scientific Council of the Belgian Cancer Foundation.

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Frédéric Vrins (LFIN): has been appointed Associate Editor of Risks, a scholarly open access journal published by the Swiss franchise MDPI.

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Theses:

**Riccardo Turati (IRES), Alexandre Ounnas (IRES), Manon Martin (ISBA),
Juliana Mesén Vargas (IRES) and Sonia Trabelsi (CORE)**
successfully defended their thesis in 2020 !



Riccardo Turati (IRES) on January 7, 2020

Title: [Migration, culture and politics](#)

Promotor: Frédéric Docquier

Alexandre Ounnas (IRES) on January 15, 2020

Title: [Essays on unemployment, occupations and demographics](#)

Promotor: Bruno Van der Linden (IRES)

Manon Martin (ISBA) on January 17, 2020

Title: [Uncovering informative content in metabolomics data : from pre-processing of 1H NMR spectra to biomarkers discovery in multifactorial designs](#)

Promotor: Bernadette Govaerts (ISBA)

Juliana Mesén Vargas (IRES) on January 21, 2020

Title: [Economic and ethical considerations about the access to an income](#)

Promotor: Bruno Van der Linden (IRES)

and Yannick Vanderborght (U Saint-Louis & UCLouvain)

Sonia Trabelsi (CORE) on February 28, 2020

Title: [Geographies of green and health in Belgium: measurements, opportunities and challenges](#)

Promotor: Isabelle Thomas (CORE)



Papers:

■ CORE

Aerts, Raf; Nemery, Benoit; Bauwelinck, Mariska; **Trabelsi, Sonia**; Deboosere, Patrick; Van Nieuwenhuyse, An; Nawrot, Tim S.; Casas, Lidia. *Residential green space, air pollution, socioeconomic deprivation and cardiovascular medication sales in Belgium: A nationwide ecological study.* In: *Science of The Total Environment*, Vol. 712, no.1, p. 136426 (April 2020).

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Aslam, Haris; **Blome, Constantin**; Roscoe, Samuel; Azhar, Tashfeen. *Determining the Antecedents of Dynamic Supply Chain Capabilities.* In: *Supply Chain Management : an international journal*, (2020). (March 2020).

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Dragan, Irinel ; **Dehez, Pierre**. *Alternative representation of semivalues, the inverse problem and coalitional rationality.* In: *Journal of Mathematics and Statistical Science*, vol. 6 no. 2, p. 68 – 84 (February 2020)

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Gandica, Yérali; Decuyper, Adeline; Cloquet, Christophe; **Thomas, Isabelle**; **Delvenne, Jean-Charles**. *Measuring the effect of node aggregation on community detection.* In: *EPJ Data Science*, Vol. 9, no.1 (2020).

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Jia, Fu; **Blome, Constantin**; Sun, Hui; Yang, Yang; Zhi, Bangdong. *Towards an integrated conceptual framework of supply chain finance: An information processing perspective.* In: *International Journal of Production Economics*, Vol. 219, p. 18-30

Baurin, Arno ; Hindriks, Jean. *Financement des pensions et le compte individuel pension.* In : *Revue Belge de Sécurité Sociale*, Vol. 2019, no. 2, p. 333-359 (2019)
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Belleflamme, Paul; Peitz, Martin. *Price disclosure by two-sided platforms.* In: *International Journal of Industrial Organization*, Vol. 67, (December 2019).
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Belleflamme, Paul; Peitz, Martin. *The competitive impacts of exclusivity and price transparency in markets with digital platforms.* In: *Concurrences : revue des droits de la concurrence*, Vol. 1, p. 2-7 (2020).
[<http://> The competitive impacts of exclusivity and price transparency in markets with digital platforms]
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(January 2020).
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Lauwers, Laura; **Trabelsi, Sonia**; Pelgrims, Ingrid; Bastiaens, Hilde; De Clercq, Eva; Guilbert, Ariane; **Guyot, Madeleine**; Leone, Michael; Nawrot, Tim; Van Nieuwenhuyse, An; Remmen, Roy; Saenen, Nelly; **Thomas, Isabelle**; Keune, Hans. *Urban environment and mental health: the NAMED project, protocol for a mixed-method study.* In: *BMJ Open*, Vol. 10, no. 2, p. e031963 (2020).
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■ IRES

Attanasi, Gautier; Bodart, Vincent; Courtoy, François; Fontenay, Sébastien; Lachapelle, Nathan; Ounnas, Alexandre; Sauvenier, Mathieu. *Perspectives économiques 2020.* In: *Regards économiques*, no.155, p. 1-11 (2020).
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Baudin, Thomas; **de la Croix, David**; Gobbi, Paula Eugenia. *Endogenous Childlessness and Stages of Development.* In: *Journal of the European Economic Association*, Vol. 18, no. 1, p. 83-133 (February 2020).
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Cole, Shawn ; **Parienté, William** ; Sautmann, Anja. *A revolution in economics? It's just getting started...In:* *World Development*, vol. 127, p. 104849, 2020.
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Degavre, Florence; Lemaître, Andreia; **Nyssens, Marthe**; Defourny, Jacques. *L'économie sociale, un moteur pour la transition sociale et écologique ?.* In: *Sociétés en changement*, , no.8, p. 1-8 (2020).
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Desmet, Klaus; **Gomes, Joseph**; Ortúñoz-Ortín, Ignacio. *The geography of linguistic diversity and the provision of public goods.* In: *Journal of Development Economics*, Vol. 143, p. 102384 (2020).
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House, Allan; West, Robert; Smith, Chris; **Tubeuf, Sandy**; Guthrie, Else; Trigwell, Peter. *The effect of a hospital liaison psychiatry service on inpatient lengths of stay: interrupted time series analysis using routinely collected NHS hospital episode statistics.* In: *BMC Psychiatry*, Vol. 20, no.1, p. 1-8 (2020).
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ISBA

Beyene, Kassu M.; El Ghouch, Anouar; Ouhaj, Abderrahim. *On the validity of time-dependent AUC estimation in the presence of cure fraction.* In: *Biometrical Journal*, Vol. 61, no. 6, p. 1430-1447 (2019).

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Bouezmarni, Taoufik; Camirand Lemyre, Félix; **El Ghouch, Anouar.** *Estimation of a bivariate conditional copula when a variable is subject to random right censoring.* In: *Electronic Journal of Statistics*, Vol. 13, no.2, p. 5044-5087 (2019).

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Colling, Benjamin; **Van Keilegom, Ingrid.** *Estimation of fully nonparametric transformation models.* In: *Bernoulli : a journal of mathematical statistics and probability*, Vol. 25, no. 4B, p. 3762-3795 (2019).

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De Backer, Mickaël; El Ghouch, Anouar; Van Keilegom, Ingrid. *An Adapted Loss Function for Censored Quantile Regression.* In: *Journal of the American Statistical Association*, Vol. 114, no. 527, p. 1126-1137 (2019).

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Escobar-Bach, Mikael; **Van Keilegom, Ingrid.** *Non-parametric cure rate estimation under insufficient follow-up by using extremes.* In: *Journal of the Royal Statistical Society: Series B (Statistical Methodology)*, Vol. 81, no. 5, p. 861-880 (2019)

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Gao, Zhengyuan; **Hafner, Christian.** *Looking Backward and Looking Forward.* In: *Econometrics*, Vol. 7, no.2, p. article 27 (2019).

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Mammen, Enno; **Van Keilegom, Ingrid;** Yu, Kyusang. *Expansion for moments of regression quantiles with applications to nonparametric testing.* In: *Bernoulli*, Vol. 25,

Narasimhaiah, Deepti; **Legrand, Catherine; Damotte, Diane; Remark, Romain; Munda, Marco; De Potter, Patrick; Coulie, Pierre; Vikkula, Miikka; Godfraind, Catherine.** *DNA alteration-based classification of uveal melanoma gives better prognostic stratification than immune infiltration, which has a neutral effect in high-risk group.* In: *Cancer medicine*, Vol. 8, no.6, p. 3036-3046 (2019).

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Neumeyer, Natalie; **Van Keilegom, Ingrid.** *Bootstrap of residual processes in regression: to smooth or not to smooth?.* In: *Biometrika*, Vol. 106, no.2, p. 385-400 (2019).

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Racine, Jeffrey S.; **Van Keilegom, Ingrid.** *A Smooth Nonparametric, Multivariate, Mixed-Data Location-Scale Test.* In: *Journal of Business & Economic Statistics*, p. 1-12 (2019).

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Schokkaert, Erik; Devolder, Pierre; Hindriks, Jean; Vandenbroucke, Frank. *Towards an equitable and sustainable points system. A proposal for pension reform in Belgium.* In: *Journal of Pension Economics and Finance*, Vol. 19, no. 1, p. 49-79 (2020).

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Simar, Léopold; Zelenyuk, Valentin. *Improving Finite Sample Approximation by Central Limit Theorems for DEA and FDH efficiency scores.* In: *European Journal of Operational Research*, Vol. 284, p. 1002-1015.)

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Mastromarco, Camilla; **Simar, Léopold;** Wilson, Paul. *Nonparametric Statistical Analysis of Production.* In: *The Palgrave Handbook of Economic Performance Analysis*, Springer International Publishing, 2020, p. 301-381.

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no.2, p. 793-827 (2019).

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■ **LFIN**

Dewachter, Hans; **Iania, Leonardo**; Wolfgang Lemke; Marco Lyrio. *A Macro-Financial Analysis of the Corporate Bond Market*. In: *Empirical Economics*, Vol. 57, no. 4 p. 1911–1933 (December 2019).

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Petitjean, Mikael. *Eco-friendly policies and financial performance: Was the financial crisis a game changer for large US companies?*. In: *Energy Economics*, Vol. 80, no. Feb, p. 502-511 (2019).

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Research projects:

■ **ARC Project - Catherine Legrand (ISBA)**

Imperfect Data : From Mathematical Foundations to Applications in Life Sciences (IMAL)

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■ **ERC Advanced Grant - David de La Croix (IRES)**

[Did elite human capital trigger the rise of the West? Insights from a new database of European scholars](#)



LIDAM Experts against COVID19:



Catherine Legrand (ISBA):

She is collaborating with the [KCE](#) (the Belgian Health Care Knowledge Center), to provide statistical expertise for the design and set-up of clinical trials linked to COVID-19.

Bertrand Candelon (LFIN): has been appointed member of the Economic Risk Management Group (ERMG), group created by the Prime Minister (Sophie Wilmès) and headed by [Piet Vanthemsche](#) and [Pierre Wunsch](#) (Governor of the National Bank of Belgium). The ERMG aims at evaluating the economic risks, the critical business activities and defines measures to support the activity in Belgium during the Corona Crisis.

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Eugen Pircalabelu & Antoine Soetewey (ISBA):

To contribute to the understanding of the effect of the spread of the COVID-19 virus on the health care system in Belgium, they have developed an app that predicts one day ahead the amount of hospitalized and ICU patients, as well as the total number of deaths as a result of the virus.

How can we predict the evolution of Covid19 in Belgium? [Modeling the evolution of the COVID-19 virus](#)
More info on: [E. Pircalabelu's website](#) & [A. Soetewey's blog : Stats & R](#)



On sabbatical leave:



[Philippe Chevalier](#)



[Rainer von Sachs](#)



Media:



LIDAM members in the Media !

March:

- **30/03/2020: Mikael Petitjean - Le Soir:** [Gel du dividende bancaire: un report essentiel mais pas ais  ](#)
- **30/03/2020: Philippe Lambert - Handirect :** [Confinement et recherche d'emploi: Relancez vos d  marches!](#)
- **28/03/2020: Bruno Van der Linden - Moustique:** [L'explosion des affiliations syndicales](#)
- **19/03/2020: Fr  d  ric Vrins - La Premi  re:** [Nouvelles dispositions 脿 la Bourse de Bruxelles](#)
- **18/02/2020: Mikael Petitjean - Moustique:** [Les march  s boursiers sont dans un trou d'air mais ne se ne cracheront pas](#)
- **4/03/2020: Jean Hindriks & Antoine Germain - Le Soir:** [In  galit   de prix: in  galit  s r  gionales d'inflation selon l'âge et le revenu du m  nage](#)
- **03/03/2020: Jean Hindriks - Matin Premi  re:** [Est-on tous 茅gaux face 脿 l'inflation?](#)
- **03/03/2020: Jean Hindriks - Le Soir:** [Les in  galit  s d'inflation en fonction du revenu diff  rent selon les r  gions](#)
- **02/03/2020: Bart Jourquin- Matin Premi  re:** [La gratuit   des transports en commun, est-ce possible aussi en Belgique?](#)

February:

- **26/02/2020: Pierre Dehez & Victor Ginsburgh - Le Soir:** [LeSoir.be – Elections : Trois voix par   lecteur, pour clarifier le jeu](#)
- **18/02/2020: Sandy Tubeuf - Solvay Brussels School :** [Sandy Tubeuf at the conference " Challenge for Innovative Society"](#)
- **18/02/2020: Jean Hindriks - La Capitale:** [«Les int  r  ts des partis pr  valent, pas ceux des citoyens!»](#)

January:

- **30/01/2020: Paul Belleflamme - Moustique :** [Gafa: le jackpot impossible?](#)
- **21/01/2020: Mikael Petitjean - Matin Premi  re:** [Forum 茅conomique de Davos et in  galit  s sociales –](#)

- **17/01/2020: Vincent Vandenberghe - RTBF La Première** : Emploi: Faut-il raccourcir la durée des études supérieures?
 - **17/01/2020: Vincent Bodart - RTBF La Première**: Comment abordons-nous l'année 2020 dans notre rôle de consommateurs?
 - **17/01/2020: IRES- La Libre**: Le pouvoir d'achat des Belges devrait à peine progresser en 2020
 - **17/01/2020: IRES - Le Soir** : La croissance économique devrait stagner en 2020, selon l'IRES
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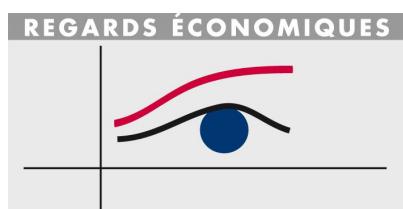
Blogs news:

The Bing Bang Blog

- Je ne comprends plus...
- Pratiques nuisibles
- Le plan de paix du siècle: Un gruyère
- Ceux qui ne sont pas encore nés sont sans pouvoir (1).
- Le gruyère à trous est mort. Vive l'emmenthal
- Comment justifier l'inégalité?
- Il faut plaisanter avec l'humour
- Jeu de dupes
- La Peste
- Ce serait si facile
- Une lettre de Kika et Thomas

IPdigIT

- Patents and/or secrets? Questioning the best mode disclosure requirement
- La nouvelle stratégie européenne pour les données et le Livre blanc sur l'Intelligence Artificielle



- Perspectives économiques 2020

- [Focus - À propos de la proposition du ministre Koen Geens de donner cinq voix à chaque électeur](#)



Teams :



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