



Ansökan om forskningsmedel

Datum
2026-01-31

Observera att ansökan och bilagor endast ska skickas elektroniskt till konkurrensverket@kkv.se.

1 Sökande (huvudansvarig för projektet)

Namn *	Florin Maican	Institution eller motsvarande	
Universitet/högskola eller motsvarande	Institutet för Näringslivsforskning	Postnr och ortsnamn	
Postadress	Box 55665	E-post	
Telefonnummer			

* Huvudansvarig för projektet är ansvarig för att uppgifterna som lämnas i ansökningsblanketten är korrekta.

2 Anslagsförvaltare

Universitet/högskola eller motsvarande	Institution
Institutet för Näringslivsforskning IFN	Institutet för Näringslivsforskning IFN
Postadress	Postnr och ortsnamn
Box 55665	102 15 Stockholm
Telefonnummer	
08 665 45 00	

3 Projektbeskrivning

Projekttitel	Konkurrens på konsumentnära marknader där lokalisering spelar roll		
Projektets relevans för Konkurrensverket (högst 240 tecken)	Projektet ger tydliga och praktiskt användbara verktyg för att analysera lokal konkurrens, marknadsmakt, etablering och effektivitetsvinster. Resultaten är direkt relevanta mot bakgrund av nya konkurrenspolitiska styrmedel i Sverige och EU.		
Projektet avses starta/startade, datum	2026-09-01	Projektet beräknas vara slutfört, datum	2028-12-31
Sammanfattning på svenska av projektets syfte, betydelse och genomförande (högst 1 000 tecken).	Projektet utvecklar analysverktyg för att bedöma konkurrens på marknader där geografi påverkar konsumenters val, exempelvis apotek, dagligvaruhandel och drivmedel. Syftet är att analysera marknadsmakt, etableringsmönster och effektivitetsvinster.		
Ramverket integrerar tre delar: (i) hur konsumenterna väljer mellan närliggande alternativ och hur lokala marknader avgränsas, (ii) hur kostnader påverkas av storlek, kedjetillhörighet och lokalisering, samt (iii) om nyetablering kan förväntas begränsa marknadsmakt. Ramverket möjliggör kontrafaktiska experiment för att utvärdera effekter av potentiella policyåtgärder.			
Tillämpningen avser den svenska apoteksmarknaden efter omregleringen 2009, där unika data möjliggör jämförelser mellan reglerade och konkurrensutsatta produkter samt fysisk och digital handel. Metoden är generell och tillämpbar på andra konsumentnära marknader.			

Bifoga även en utförligare projektbeskrivning (svenska eller engelska, ca 10 A4-sidor) som bilaga till denna ansökan.

4 Kostnadsredovisning

Observera att den högsta tillåtna arbetstiden för disputerad forskare, docent och professor är 75 procent av heltid. För doktorand, forskningsassistent eller liknande är den högsta tillåtna arbetstiden 85 procent av heltid.

Projektår 1					
Personalnamn och akademisk titel (bifoga CV)		Månadslön (brutto)	Anställningstid i projektet, månader	Arbetstid i procent av heltid	Lönekostnad inkl. sociala avgifter
Namn	Akademisk titel				
	Associate Professor	58000	3	75	198360
Summa lönekostnader inkl. sociala avgifter					198360
Summa övriga kostnader (hämtas från tabell 4a)					0
Summa förvaltningskostnader inklusive lokalhyra					29754
Total kostnad inklusive sociala avgifter och förvaltningsavgifter					228114

Projektår 2					
Personalnamn och akademisk titel (bifoga CV)		Månadslön (brutto)	Anställningstid i projektet, månader	Arbetstid i procent av heltid	Lönekostnad inkl. sociala avgifter
Namn	Akademisk titel				
	Associate Professor	58000	12	60	634752
Summa lönekostnader inkl. sociala avgifter					634752
Summa övriga kostnader (hämtas från tabell 4a)					0
Summa förvaltningskostnader inklusive lokalhyra					95213
Total kostnad inklusive sociala avgifter och förvaltningsavgifter					729965

Projektår 3					
Personalnamn och akademisk titel (bifoga CV)		Månadslön (brutto)	Anställningstid i projektet, månader	Arbetstid i procent av heltid	Lönekostnad inkl. sociala avgifter
Namn	Akademisk titel				
	Associate Professor	58000	12	60	634752
Summa lönekostnader inkl. sociala avgifter					634752
Summa övriga kostnader (hämtas från tabell 4a)					0
Summa förvaltningskostnader inklusive lokalhyra					95313
Total kostnad inklusive sociala avgifter och förvaltningsavgifter					729965

4a Redovisning övriga kostnader

Maxbelopp för övriga kostnader per år är 25 000 kronor. Ifall detta belopp överskrids ska detta motiveras särskilt i ansökan.

	År 1	År 2	År 3
Material och utrustning			
Resor			
Andra kostnader			
Summa			

5 Kostnadssammanfattning (anges i kronor) för nu sökt anslag

Total projektkostnad 1688044

Därav söks från		Tidigare erhållna anslag från	
Konkurrensverket 1688044	Annan anslagsgivare * 0	Konkurrensverket 0	Annan anslagsgivare ** 0

* Anslagsgivarens namn	Ansökan inlämnad, datum	Sökt belopp
** Anslagsgivarens namn	Ansökan beviljad, datum	Beviljat belopp

6 Övriga projekt som samtidigt kommer att ledas av huvudansvarig

Projekttitel

OBS! Namn och institution på personer som beviljas forskningsbidrag kommer att publiceras på Konkurrensverkets webbplats. Om en ansökan om forskningsbidrag skickas in till Konkurrensverket innebär det ett medgivande till att dina personuppgifter registreras och behandlas av Konkurrensverket samt att uppgifter om namn och institution för beviljade bidrag publiceras på webbplatsen.

Competition in Consumer Markets where Location Matters

1. Background

Over the past two decades, markets have fundamentally changed, challenging the effectiveness of existing competition analysis tools. Digitalization, sustainability imperatives, global disruptions, and evolving supply chains shape competitive dynamics. Firms compete in multiple ways—by price, innovation, service, geography, and digital channels—while managing network effects and fast-paced technological change. Traditional competition analysis face challenges: they must define markets amid spatial competition, predict outcomes shaped by entry and innovation, and verify efficiency claims when costs vary across locations and firm types. Competition authorities need analytical frameworks to answer key economic questions about consumer choices, cost variation, and market entry.

Competition policy is evolving to meet these challenges with both proactive and reactive instruments. Sweden is modernizing its toolkit through the SOU (2025:22) inquiry, which proposes new proactive market investigation powers for the Swedish Competition Authority (KKV). This tool, already used in the UK, Denmark, Norway, and Germany, targets structural competition problems beyond traditional merger control or abuse-of-dominance cases. The proposal also introduces enhanced merger information requirements for below-threshold transactions, addressing concerns about “killer acquisitions” and roll-up strategies. Meanwhile, the European Commission is undertaking its first major revision of merger guidelines in two decades, identifying seven priority areas. This project addresses three of these areas: Assessing market power using structural features and indicators (Topic B), innovation and dynamic elements in merger control (Topic C), and efficiency evaluation (Topic F). The Draghi report reinforces this urgency, criticizing EU merger control as “too backward-looking” when innovation and future competition matter most.

This project develops an integrated methodological framework for analyzing competition in consumer goods markets where geography shapes competitive outcomes. Our primary empirical application uses Swedish retail pharmacy, where we have unique data access. The sector raises fundamental competition questions that current tools cannot adequately address: how entry and chain formation affect market structure, whether consumers benefit from increased pharmacy density, and how geographic concentration shapes local market power. The presence of both prescribed drugs (with regulated margins) and over-the-counter products (with competitive pricing) enables clean separation of competitive effects across product categories and online/offline channels. While developed for pharmacy retailing, our framework applies broadly to other consumer goods markets such as food retailing, fuel stations, convenience stores, and other spatially differentiated sectors. The methodology is equally relevant for business strategy, informing location choice, network expansion, and market positioning decisions.

The timing of this research aligns precisely with Sweden's competition policy modernization. As KKV prepares for new market investigation powers and enhanced merger scrutiny, the authority needs empirical tools to address fundamental questions about market structure, entry dynamics, and efficiency in spatially differentiated markets. This project develops such tools using Swedish data and applies them to counterfactual policy questions, creating capabilities that support both market investigation and merger control functions while contributing to international methodological development in spatial competition analysis.

2. Purpose and Research Questions

The project's core objective is to develop an empirical framework that answers fundamental economic questions about competition in spatially differentiated markets. Specifically, we assess how changes in market structure affect competitive pressure and entry incentives, whether efficiency gains offset competitive harm, and whether market forces will constrain resulting market power. The framework provides analytical tools for market investigations, merger assessments, and efficiency evaluations applicable across multiple policy instruments, offering empirical benchmarks for critical questions: whether local market power arises from geographic concentration, whether efficiency claims are consistent with estimated economies of scale and scope, and whether entry is likely, timely, and sufficient to constrain market power.

We apply this framework to Swedish retail pharmacy, where recent regulatory changes create conditions that reshape market structure and competitive dynamics. The 2009 deregulation create a natural experiment with substantial entry (pharmacy numbers increased over 50%), ownership transitions, chain formation, and dual products separating regulated from competitive margins (prescribed and over-the-counter (OTC) drugs). Unique data access combining product-level sales and pricing data, pharmacy and chain/owner information, and detailed geographic information enables validation that would be impossible in most service sectors. The empirical framework applies to other consumer goods markets where competition has important geographic dimensions.

The research addresses five interrelated questions corresponding to policy priorities in both market investigations and merger control. *First*, regarding market definition and competitive effects (EU Topic B, SOU market investigation tools), we ask how consumer travel distances and chain substitution behavior shape relevant geographic markets. What measures of market concentration emerge from consumer-centered market definition, and how do competitive constraints vary between dense urban areas and dispersed rural markets? When consumers lose a nearby pharmacy, to which alternatives do they switch: other nearby pharmacies, the same chain at different locations, or outside options such as online pharmacies and non-pharmacy retailers? What happens to local competition when these outside options become more widely available?

Second, turning to entry dynamics and forward-looking assessment (EU Topic C, SOU market structure assessment), we investigate what market conditions and competitive configurations determine chain entry decisions. We examine how entry by different

pharmacy chains contributes to market expansion versus business stealing at the product level across geographic regions over time. How do changes in market structure affect entry incentives, and under what conditions is entry likely and at sufficient scale to constrain market power? This question is critical for assessing whether market investigations should impose remedies or whether market forces will self-correct.

Third, regarding cost structure and efficiency assessment (EU Topic F, SOU remedy evaluation), we examine scale and scope economies in pharmacy operations and how they vary by chain affiliation, market density, and format. Scale economies refer to cost advantages from operating at larger volumes, while scope economies arise from operating multiple product lines or store formats together. This includes understanding scope economies from colocation with adjacent retail categories, as when ICA integrated pharmacy operations with food retail through its acquisition of Apotek Hjärtat. How can we provide quantitative benchmarks for evaluating efficiency claims and identifying implausible cost synergies in both merger review and market investigation contexts?

Fourth, we address innovation incentives and service quality by identifying what measurable service dimensions reflect competitive pressure in pharmacy retailing: operating hours, dispensing efficiency, digital infrastructure, and product assortment. How can these competitive effects be incorporated into competition assessment when R&D is not the primary competitive margin? *Finally*, we examine how these dimensions interact to determine overall market outcomes, recognizing that competition in spatially differentiated markets operates simultaneously through multiple dimensions: price, service quality, location choice, and product variety.

3. Motivation and Policy Relevance

Effective competition analysis in spatially differentiated markets requires understanding fundamental mechanisms: how consumers substitute across nearby alternatives, how costs vary with scale and location, and how entry and innovation respond to competitive conditions. A single structural change can have disparate effects across locations depending on local market characteristics. Analytical frameworks must accurately capture these mechanisms to yield credible predictions; without realistic models, policy analysis remains unreliable regardless of available data. The suggested framework in this project enables evaluation of counterfactual policies that have not been implemented, answering economic questions that are impossible to address with quasi-experimental methods requiring actual policy changes.

Implementing Sweden's proposed market investigation powers under SOU (2025:22) and enhanced merger scrutiny requires new analytical capabilities. KKV will need empirical frameworks to determine to what extent market power exists, whether entry will constrain it, and whether efficiency gains justify structural changes. These needs align with the European Commission's ongoing merger guidelines revision and the forward-looking approach emphasized in recent policy debates.

The project develops a unified framework to address key policy needs in market investigations and merger control. It enables consumer-centered market definition based on actual choice patterns, measures concentration at multiple levels, and reveals which alternatives consumers select when options disappear. For entry assessment, it quantifies the likelihood and sufficiency of entry, and models how shifts in market structure influence future entry. For efficiency evaluation, it benchmarks actual scale and scope economies to determine if claimed efficiencies surpass those attainable through internal growth.

Sweden's 2009 pharmacy deregulation create natural variation in market structure and entry patterns as the market transition from state monopoly to competitive private chains (Maican and Orth, 2022). Competition is primarily local: the market combines regulated products (prescribed drugs) and competitive products (OTC goods), enabling separate identification. Moreover, pharmacies are strategically important for resilience during pandemics and conflicts. The framework has direct business applications: optimizing location and network expansion, identifying underserved markets, quantifying cannibalization from new entries, and evaluating merger opportunities. The ICA-Apotek Hjärtat colocation exemplifies this dual applicability: a business strategy with competitive implications that the framework can assess.

The methodology generalizes far beyond pharmacy markets. Food retailing, fuel stations, banking branches, and similar consumer services share key features: consumers choose among nearby options, firms compete locally while operating nationally, and market structure changes have location-specific effects. A strength of the project is that the framework provides tools for competition authorities and businesses to analyze these markets using the same integrated approach to demand, costs, and entry.

4. Data

The empirical analysis uses several Swedish administrative datasets from 2009 onward, providing information at multiple levels from detailed products to pharmacies, firms, and geographic areas, all of which can be linked across these dimensions. Pharmacy transaction data from e-Hälsomyndigheten provides complete sales records for prescribed and OTC products, enabling measurement of market shares and consumer choice patterns. Geographic data from Statistics Sweden on DeSO areas (approximately 1,500 residents each) serves as the fundamental spatial unit and provides demographic characteristics for spatial demand modeling. Firm-level data from Statistics Sweden links employees to pharmacies for labor measurement and includes financial accounts and capital stocks for cost function estimation. Digital infrastructure data from PTS provides granular broadband coverage information, enabling analysis of online pharmacy competition across local markets. This data combination is unique in providing both demand-side consumer choices and supply-side firm costs at fine spatial resolution, with observable ownership transitions for validating entry models.

5. Literature and Method

The project combines economic theory, advanced econometrics, and detailed data to answer key economic questions about competition in spatially differentiated markets. Unlike reduced-form approaches that describe correlations, structural methods model underlying decision problems of consumers and firms, enabling counterfactual analysis of policies and market structure changes that have not occurred (Berry, Gaynor, and Scott Morton, 2019; Gandhi and Nevo, 2022). This capability is essential for market investigations and merger assessments, where authorities must predict future outcomes rather than only describe historical patterns. The US guidelines explicitly endorse using "economic models" that "incorporate data and evidence to produce quantitative estimates" (FTC, 2023).

Our framework integrates three complementary analytical pillars: a spatial demand model, a multiproduct cost function, and an entry model. The spatial demand model builds on Holmes (2011), Ellickson, Grieco, and Khvastunov (2020), and Verboven and Yontcheva (2024), and is adapted for consumer goods in which chains operate across multiple markets and offer multiple products. The model defines markets around consumers and their choice sets rather than firm locations, providing the consumer-centered approach emphasized in both US and EU enforcement. The model uses granular demographic areas as consumer location units (Swedish DeSO areas), estimates consumer sensitivity to travel distance at the product level, enabling market definition based on actual choice patterns. It also accounts for chain preferences, format differentiation (operating hours, product variety), and heterogeneity across consumer types and market areas. We compute local concentration measures and identify which alternatives consumers switch to when options disappear, providing measures at both store and chain levels. The outside option explicitly incorporates online pharmacies and non-pharmacy OTC retailers, capturing how these alternatives constrain local market power.

The framework estimates a multiproduct cost function including prescribed and OTC products and input prices (labor and materials), allowing flexible estimation of economies of scale, scope, and product-specific marginal costs (Baumol, Panzar, and Willig, 1982; Röller, 1990; Roberts and Supina, 1996). This provides marginal cost estimates and markup measures that inform efficiency analysis. Policy-relevant outputs include baseline cost structures by chain and geographic market type, estimated marginal costs enabling markup calculations, quantified scale and scope economies to benchmark efficiency claims, and the ability to simulate cost structures under different market configurations (Pulley and Braunstein, 1992). The scope economy analysis is particularly relevant for assessing benefits from when retailers combine pharmacy with food retailing, as ICA has done with Apotek Hjärtat.

We model entry decisions to understand under what conditions potential entry would be timely, likely, and sufficient to constrain market power, with scale comparable to existing competitors. We develop an entry model integrated with the spatial demand model and cost function to explain observed entry patterns following the 2009 deregulation (Seim and Waldfogel, 2013; Verboven and Yontcheva, 2024). The entry model explains chain expansion decisions (when and where chains open pharmacies), identifies the role of fixed

costs for entry by different chains, and captures chain dynamics (how existing chain presence affects rival entry). We can infer entry barriers and assess whether entry will constrain market power (Wollmann, 2018; Pakes, 2021; Kline et al., 2022).

Innovation in retail services differs from traditional R&D. In pharmacy markets, innovation relates to service delivery improvements (extended hours, dispensing efficiency), product assortment and professional services expansion, and digital channel development. Measuring these dimensions enables assessment of how changes in market structure affect competitive pressure and innovation incentives, directly addressing dynamic effects in both market investigations and merger assessments.

The three pillars of demand, cost and entry combine into a unified framework for counterfactual analysis. For market investigations, the framework can assess current market structure, predict whether entry will address competition concerns, and inform potential remedies. For merger assessments, we establish a pre-merger baseline of demand, costs, and entry conditions, then simulate the merger by modeling ownership changes in which acquired pharmacies maximize joint profits. The framework computes effects on consumer welfare by geographic area, holding market structure fixed; models entry responses and the resulting equilibrium market structure; decomposes effects into entry, market expansion, and business-stealing components; and assesses welfare by comparing consumer surplus, producer surplus, and total welfare across scenarios. This integrated approach provides the forward-looking analysis that both SOU (2025:22) market investigations and the revised EU merger guidelines require.

6. Timeline

Project period: 27 months (1 September 2026 – 31 December 2028)

7. Dissemination

Academic outputs: Working papers submitted to CEPR/NBER Discussion Paper series; conference presentations at CEPR, NBER, EARIE, IIOC, EEA, CRESSE, and Nordic IO Workshop.

Policy outputs: Presentations for policymakers and practitioners

8. Project Members

The project will be conducted by researchers with extensive international experience in empirical industrial organization (IO) and applied econometrics for competition policy evaluation. All researchers have substantial expertise working with service markets and consumer goods sectors including grocery retail, pharmacies, and high-technology services.

Florin Maican: Associate Professor, Research Institute of Industrial Economics (IFN) and University of Gothenburg, and Research fellow at Centre for Economic Policy Research (CEPR). Expertise in empirical IO, structural econometrics, industry dynamics, competition policy, technological change, and productivity. *Funding requested*

Matilda Orth: Associate Professor, Research Institute of Industrial Economics (IFN), visiting lecturer at Stockholm School of Economics. Expertise in empirical IO, entry and market structure, competition policy, and retail markets. *No funding requested.*

Frank Verboven: Professor of Economics, KU Leuven and CEPR. Leading scholar in empirical IO and competition policy. Currently, Maican, Orth and Verboven co-author work on demand, competition and deregulation. *No funding requested.*

References

Baumol, W., J. Panzar, and R. Willig (1982). *Contestable Markets and the Theory of Industry Structure*. New York: Harcourt-Brace-Jovanovich.

Berry, S., M. Gaynor, and F. Scott Morton (2019). "Do Increasing Markups Matter? Lessons from Empirical Industrial Organization." *Journal of Economic Perspectives*, 33(3): 44-68.

Ellickson, P., P. Grieco, and O. Khvastunov (2020). "Measuring Competition in Spatial Retail." *RAND Journal of Economics*, 51: 189-232.

European Commission (2025). *Merger Guidelines Revision Consultation Documents* (Topics A-G).

Gandhi, A. and A. Nevo (2022). "Empirical Models of Demand and Supply in Differentiated Products Industries." *Handbook of Industrial Organization*.

Holmes, T. (2011). "The Diffusion of Wal-Mart and Economies of Density." *Econometrica*, 79: 253-302.

Kline, B, A. Pakes, E. Tamer (2022) Moment Inequalities and Partial Identification in Industrial Organization, *Handbook of Industrial Organization*

Maican, F. and M. Orth (2022). "Apoteksmarknaden ur ett konkurrensperspektiv." KKV Uppdragsforskningsrapport 2022:4.

Pakes, A. (2021) A Helicopter Tour of Some Underlying Issues In Empirical Industrial Organization, *Annual Reviews* 13

Pulley, L. B. and Y. M. Braunstein (1992). "A Composite Cost Function for Multiproduct Firms with an Application to Economies of Scope in Banking." *Review of Economics and Statistics*, 74: 221-230.

Roberts, M. J. and D. Supina (1996). "Output Price, Markups, and Producer Size." *European Economic Review*, 40: 909-921.

Röller, L.-H. (1990). "Proper Quadratic Cost Functions with an Application to the Bell System." *Review of Economics and Statistics*, 72: 202-210.

Seim, K., and J. Waldfogel. 2013. "*Public Monopoly and Economic Efficiency: Evidence from the Pennsylvania Liquor Control Board's Entry Decisions.*" *American Economic Review*. 103 (2): 831–62.

Swedish Government (2025). *Improved Competition in Public and Private Activities* (Förbättrad konkurrens i offentlig och privat verksamhet). SOU 2025:22. Stockholm: Norstedts Juridik.

U.S. Department of Justice and Federal Trade Commission (2023). *Merger Guidelines*.

Verboven, F. and B. Yontcheva (2024). "*Private Monopoly and Restricted Entry—Evidence from the Notary Profession.*" *Journal of Political Economy*, 132: 3658-3707.

Wollmann, T. G. 2018. "*Trucks without Bailouts: Equilibrium Product Characteristics for Commercial Vehicles.*" *American Economic Review* 108 (6): 1364–406.

CV

CONTACT DETAILS

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Current Employment

Associate Professor, Research Institute of Industrial Economics (IFN)

Research Fellow: Centre for Economic Policy Research (CEPR), U.K.

Affiliated Researcher

2010- University of Gothenburg, Sweden

2017- Centre for Economic Policy Research (CEPR), U.K.

2011- Research Institute of Industrial Economics (IFN), Stockholm

Previous Employment

2022-2023 Visiting Professor, KU Leuven, Belgium

2016-2020 Research Fellow, Katholieke Universiteit (KU) Leuven, Belgium

2011-2016 Research Fellow, Research Institute of Industrial Economics (IFN), Stockholm

2010-2011, 2019-2020 Research Fellow, University of Gothenburg

Graduate Studies

2010 Ph.D. in Economics, “Essays in Industry Dynamics on Imperfectly Competitive Markets,”
University of Gothenburg;

2008 Ph. Licentiate in Economics, “Essays on Empirical Finance: Unit-Root Testing in the
Presence of Structural Breaks,” University of Gothenburg;

Research Fields

Primary Fields: Industrial Organization, Technological Change and Innovation Policy,
Applied Econometrics, Quantitative Economics

Secondary Field: Financial Economics

Teaching experience

- 2023 Lecturer, Industrial Economics, Advanced Master & Ph.D. level (head of course), KU Leuven, Belgium
- 2021 Lecturer, Advanced Micro Theory, Graduate School/Master, University of Gothenburg
- 2021,2024 Lecturer, Advanced Industrial Organization, Graduate School/Master, University of Gothenburg
- 2017-2020 Guest lecturer, Industrial Organization, Graduate School, Stockholm School of Economics
- 2019 Lecturer, Dynamic Methods , Advanced Master & Ph.D. level (head of course), KU Leuven, Belgium
- 2018 Lecturer, Economic Research Process, Master, University of Gothenburg
- 2017 Lecturer, Dynamic Methods , Advanced Master & PhD level, KU Leuven, Belgium
- 2010-2014 Lecturer, Industrial Economics, Undergraduate (head of course), University of Gothenburg
- 2005-2009 Lecturer, Industrial Economics, Undergraduate, University of Gothenburg
- 2008-2014 Lecturer, Advanced Industrial Organization I, Master, University of Gothenburg
- 2009-2011 Lecturer, Advanced Industrial Organization II, Master, University of Gothenburg
- 2012 Lecturer, Financial Econometrics, Master, University of Gothenburg
- 2011 Lecturer, Microeconomics I, Master, University of Gothenburg
- 2001-2002 Lecturer, Contract Theory, Microeconomics, and Numerical Methods in Economics, Undergraduate, Bucharest University of Economic Studies;
- 2000 Teaching Assistant, Microeconomics and Economic Cybernetics, Undergraduate, Bucharest University of Economic Studies;

Published journal articles

- 2025 Economies of Scope in Retailing (with Matilda Orth), Handbook chapter, *Elgar Encyclopedia of Retailing*, Edward Elgar
- 2025 Tariffs – A Serious Barrier to Innovation (Tullar – ett hart slag mot innovation), (with Matilda Orth), *Ekonomisk Debatt* [PDF Download](#)
- 2023 The Dynamic Impact of Exporting on Firm R&D Investment (Matilda Orth, Mark Roberts, Van Anh Vuong), *The Journal of European Economic Association (JEEA)*, [NBER/CEPR Working paper](#), [Media: VoxEU](#)
- 2021 Determinants of Economies of Scope in Retail, (with Matilda Orth), *International Journal of Industrial Organization (IJIO)*, [Journal Download Link](#) [PDF Download](#)

- 2018 Entry Regulations, Welfare and Determinants of Market Structure (with Matilda Orth), *International Economic Review (IER)*, [Journal Download Link](#) [PDF Download](#)
- 2017 Productivity Dynamics and the Role of Big-Box Entrants in Retailing, (with Matilda Orth), *Journal of Industrial Economics (JIE)*, [Journal Download Link](#) [PDF Download](#)
– Among the top 20 most downloaded recent publications in JIE.
- 2015 A Dynamic Analysis of Entry Regulations and Productivity in Retail (with Matilda Orth), *International Journal of Industrial Organization (IJIO)* **Best IJIO Paper Award, 2016**, [Journal Download Link](#) [PDF Download](#)
- 2014 Costs of Misspecification in Break-Model Unit-Root Tests (with Richard J. Sweeney), *Applied Economics (AE)*, [Journal Download Link](#) [PDF Download](#)
- 2013 Real Exchange Rate Adjustment In European Transition Countries (with Richard J. Sweeney), *Journal of Banking and Finance (JBF)*, [Journal Download Link](#) [PDF Download](#)
- 2018 Digitalisering, strukturomvandling och produktivitet i tjänsteforetag, (with Matilda Orth), *Ekonomisk Debatt*, [Journal Download Link](#) – Cited by Sverige Riskbank
- 2012 Marknadsstruktur och dynamik i dagligvaruhandeln, (with Matilda Orth), *Ekonomisk Debatt*, [Journal Download Link](#)

Working papers (available at <http://sites.google.com/site/maicanfg/research>)

- 2026 Entry Deregulation and Competition: Evidence from Swedish Pharmacy Market (with Matilda Orth and Frank Verboven), Working paper
- 2025 Measuring the Dynamic Effects of Building Broadband Infrastructure (with Matilda Orth), CEPR Working paper, [pdf](#)
- 2025 The Impact of Subsidies on Market Structure and Welfare in Retail (with Matilda Orth) [pdf](#) (*European Association in Industrial Economics (EARIE)*' 50th Year Best Paper Award – Finalist, 2023)
- 2024 Entry Regulation and Product Variety in Retail (with Matilda Orth), [CEPR Working paper](#), [pdf](#) [Media: IFN Newsletter](#)
- 2025 Quantifying the Impact of State Aid to Pharmacies (with Matilda Orth), [pdf](#)
- 2024 The Impact of Entry Reforms on Product Access and Quality in Pharmacies (with Matilda Orth), [pdf](#)

- 2021 Broadband Infrastructure and Firm Performance (with Matilda Orth), [pdf](#)
- 2019 The Determinants of Market Structure Dynamics in High-Tech Services, [pdf](#)
- 2019 How much of their marginal product are workers paid?: Individual-level labor share estimates from linked employer-employee-production data (with Matilda Orth and Amil Petrin), [pdf](#)
- 2018 Inventory, Shopping Quality and Productivity in Retail (with Matilda Orth), CEPR Working paper, [pdf](#)
- 2015 Productivity Dynamics, R&D, and Competitive Pressure, [SSRN Working paper](#)
- 2012 Industry Dynamics and Format Repositioning in Retail, [Working paper](#)
- 2012 From Boom to Burst: A Dynamic Analysis in IT Services, [SSRN Working paper](#)

Popular science articles

- 2016 “Strategisk positionering i svensk dagligvaruhandel - metoder för att effektivt analysera marknaden”, Report to *The Swedish Retail and Wholesale Council* (2016:1) [Download](#)
- 2009 “Is there a Walmart effect without Walmart? An analysis of productivity in the Swedish retail industry.” “Finns det en Walmart effect utan Walmart?” (with Matilda Orth), Report to *Handelns Utvecklingsråd* (2009:1) [Download](#)

Research reports

Productivity in a new economic reality: Investment, Technology, and Market Dynamics (with Matilda Orth), Report to *Center for Business and Policy Studies (SNS)* (September 2025) [Download](#)

The pharmacy market: A competitive perspective (with Matilda Orth), Report to *Swedish Competition Authority* (2022:4) [Download](#)

Product competition in the airline industry (“Vem konkurrerar med vem på flygmarknaden? En studie av flygmarknadens segment”) (with Matilda Orth). Report to the Swedish Civil Aviation Authority (2008:2) [Download](#)

Books, book chapters

- 2001 “Economic Cybernetics. Theory and Applications,” Undergraduate Textbook in quantitative macroeconomics (with I. Georgescu, D. Marinescu, and S. Stancu)

Monographs

- 2010 “Essays in Industry Dynamics on Imperfectly Competitive Markets,” PhD thesis,

University of Gothenburg

2008 “Essays on Empirical Finance: Unit-Root Testing in the Presence of Structural Breaks,”
Ph. Licentiate thesis, University of Gothenburg

Econometrics: Computer code

Java code: High performance java package (eio) for econometrics and large data [Link](#)

Julia code: Estimation multiproduct production functions

R code: Estimation of production functions

R code: Estimation of dynamic games

Java and R code : Estimation of entry static games

Java code: Estimation of entry and exit costs discrete dynamic games

R code: Unit-root testing in the presence of structural breaks

R code: Power in unit-root testing in the presence of structural breaks

Recent external funding

2026-2027 Johan & Jakob Söderbergs Stiftelse, *Digital Transformation, Productivity and Competitiveness: Analyzing the Role of Technologies and Firm Diversity.*

2024-2026 Swedish Competition Authority – *Prices, margins and competition in food markets in times of uncertainty,*

2021-2024 Torsten Söderbergs Stiftelse, *Competition and uncertainty in health care: Swedish pharmacy market*

2021-2024 Family Kamprad Stiftelse, *Health care for the elderly: the Swedish pharmacy market*

2019-2023 Jan Wallander and Tom Hedelius Foundation – *The usefulness of structural-form estimation methods in economic analysis and policy,*

2017-2020 Swedish Competition Authority – *Investment, productivity, and competition in broadband*

2017-2020 Formas – *Evaluation of policy instruments for sustainable regional development*

2015-2016 Torsten Söderbergs Stiftelse (project leader) – *Competition in food retailing*

2013-2015 Torsten Söderbergs Stiftelse (project leader) – *Competition in food retailing*

2012-2015 Handelns Utvecklingsråd – *Strategic positioning in Swedish food retailing*

Other received external funding

- 2007,2011,2014 Stiftensen Siamon, SEB Private Banking
- 2011-2012 Jan Wallander and Tom Hedelius Foundation
- 2010-2011 Swedish Competition Authority
- 2009-2010 Jan Wallander and Tom Hedelius Foundation
- 2009 Swedish Competition Authority
- 2008 Handels Utvecklingsråd
- 2007-2008 Swedish Competition Authority
- 2006-2009 The Knut and Alice Wallenberg Foundation
- 2007 Kungl. Vetenskapsakademien, The Royal Swedish Academy of Science

Scientific awards

European Association in Industrial Economics (EARIE)' 50th Year Best Paper Award – Finalist, 2023)

Best Paper Award, International Journal of Industrial Organization, 2016
 A Dynamic Analysis of Entry Regulations and Productivity in Retail (with Matilda Orth)

Invited talks (selection)

- 2025 The UK Communications Services Regulator (OfCom), London
- 2024 Center for Economic and Policy Research (CEPR), Toulouse
- 2024 Hanken School of Economics, Finland
- 2023 Center for Economic and Policy Research (CEPR), Cambridge
- 2022 Federal Communication Commission (FCC), USA
- 2022 CEPR – IO virtual meeting panel – retail and IO finance
- 2019 University of Ljubljana, Slovenia
- 2018 University of Groningen, Netherlands
- 2017 Center for Economic and Policy Research (CEPR), Jerusalem
- 2017 University of Dusseldorf, Germany
- 2016 National Bank of Italy, Rome
- 2016 DIW, Berlin
- 2015 Penn State University, USA
- 2015 Center for Economic and Policy Research (CEPR), Vienna
- 2015 ParisTech, France
- 2015 Lund University, Sweden
- 2014 Uppsala University, Sweden
- 2013 Swedish Competition Authority, Stockholm
- 2012 EIEF - Einaudi Institute for Economics and Finance, Rome
- 2009 Tilburg University
- 2009 Swedish Competition Authority, Stockholm
- 2007 Swedish Competition Authority, Stockholm
- 2006 Research Institute of Industrial Economics (IFN), Stockholm

Recent research visits (selection)

2010-2025	CEPR annual research meetings
2019, 2024, 2025	Penn State University, U.S.
2019	University of Ljubljana, Slovenia
2018	University of Groningen, Netherlands
2016	National Bank of Italy, Rome
2016	DIW, Berlin
2016-2018	Lund University (co-supervision Ph.D.)
2015	Penn State University, U.S.
2015	ParisTech, France
2014	Penn State University, U.S.
2012	EIEF - Einaudi Institute for Economics and Finance, Rome

Supervision (Ph.D.)

Osmis Habte (2014 – 2018), Lund University – co-supervisor: “Essays on competition and consumer choice”, *Job placement*: Swedish Competition Authority

I have provided feedback on various Ph.D. theses on industrial organization and econometrics at the University of Gothenburg (Department of Economics) and KU Leuven (Department of Economics).

Supervision graduate school/master (selection)

Alexandra Öhrn and Virginia Ostrowski (2020-2021): “Market Power in the Food Industry: The Swedish Egg Supply Chain,” master thesis, University of Gothenburg

Chiara Toniolo (2019-2020): “The Brazilian Coffee Market and Exchange Rate Pass-Through,” master thesis, University of Gothenburg

Ellen Debussche (2018-2019): “The Impact of Technology in Retail,” advanced master, KU Leuven

Eric Bronstein and Phil Woods (2013-2014): “The Effects of the Kimberley Process on Diamond Exports in Botswana and Prices in the International Diamond Markets: A lesson for “conflict resource” policy,” master thesis, University of Gothenburg

Sofia Blidberg and Lovisa Elfman (2012-2013): “Developing an Export Index for West Sweden Chamber of Commerce,” master thesis, University of Gothenburg

Yared Habte (2012): “Competition in the Swedish banking sector,” master thesis, University of Gothenburg, *Malmsten award for best thesis in economics 2012, Swedish Competition Authority award - The best master thesis in competition economics in Sweden, 2013*

My Alnebratt and Sara Lyxell (2012): “Dental Care on Equal Terms? An empirical study of price levels, consumption and competition on the Swedish dental care market,” master thesis, University of Gothenburg, *co-supervisor empirical part*

Aso Ulm (2012): “Mergers and Acquisition: An Event Study on Stock Market Valuation of Google, IBM, and Oracle,” master thesis, University of Gothenburg

Xiao Zhou (2011): “Market Power in the Dutch Coffee Market, 1990-1996,” master thesis, University of Gothenburg

I have been evaluator for several master and undergraduate theses at KU Leuven (Belgium). I have also supervised several undergraduate theses at the University of Gothenburg.

Discussant Ph.D. thesis

2014 Karolina Stadin, final seminar before defense, Uppsala University

2011 Yoshihiro Sato, final seminar before defense, University of Gothenburg

Assessing the work of others – Recent referee activity

Journal of Political Economy, Journal of Industrial Economics, American Economic Journal(s), International Journal of Industrial Organization, The B.E. Journal of Economic Analysis and Policy, European Economic Review, Scandinavian Journal of Economics, Journal of Banking and Finance, Journal of Economic Behavior and Organization, Emerging Markets Finance and Trade, Empirical Economics, International Review of Economics and Finance

Evaluator research funding

European Research Council (ERC) – expert evaluator – reviewer research funding

Discussant of research papers at international conferences

Center of Economic Policy Research (CEPR), European Economic Association/Econometric Society (EEA / ESEM), International Industrial Organization Conference (IIOC), The European Association for Research in Industrial Economics (EARIE)

Research programs

I am part of the following research groups:

- Center of Economic Policy Research (CEPR), Industrial Organization research group
- Research Institute of Industrial Economics (IFN), The Economics of the Service Sector research group
- University of Gothenburg (GU), Industrial Economics and Econometrics research groups

Professional activities

Member: Econometric Society, European Association for Research in Industrial Economics, Royal Economic Society, European Economic Association

Planning and holding conferences

CEPR/NBER conference in Applied Industrial Organization, KU Leuven, 2017 (part of the organizing committee)

Scientific member for EARIE conference, i.e., European Association in Industrial Economics.

Public policy

Provided expertise to policy institutions through invited talks at organizations, e.g.,

The UK Communications Services Regulator (OfCom), London
Post-Telecom Authority (PTS), Stockholm
Federal Communication Commission (FCC), USA
Swedish Competition Authority, Stockholm

Contributed to policy debates through authoring accessible reports translating complex research findings for broader audiences

Collaborated with industry stakeholders and governmental agencies on projects related to competition, innovation, and market structure

Recent collaborations

- Swedish Competition Authority – Competition in retail food
- Kamprad Foundation, E-hälsomyndigheten, Sveriges Apoteksförening – Health and medical care for the elderly
- Swedish Competition Authority – Competition in health care markets: Swedish pharmacy markets
- Swedish Competition Authority – Competition in Broadband industry

Media coverage of research

- 2025 The secret behind productivity improvement, [Dagens Industri](#)
- 2025 Productivity, Investment, and Competition in Sweden, [SNS](#) and other media outlets (over 20)
- 2021 The Dynamic Impact of Exporting on Firm R&D Investment , [VoxEU](#)
- 2020 Deregulating Retail: The Hidden Impact of a Lower Bar to Entry, [IFN Newsletter](#)
- 2016 Se möjligheterna med “big data”, [Fri Köpenskap](#)
- 2016 Sänk kraven för matbutiker det tjänar hela samhället på, [Dagens Samhälle](#)
- 2015 Stormarknader sporrar utvecklingen av lokala nischbutiker, [University of Gothenburg](#)
- 2015 Volkswagen-skandalen väcker förvåning på Scania, [Östra Småland Nyheterna](#)
- 2014 Stormarknad för vika om vi ställer bilen, [Dagens nyheter](#)

- 2014 Efter 33 år slår de igen lanthandeln i Häja, Expressen
- 2013 Konkurrens i dagligvaruhandeln, Göteborgs-Posten
- 2012 Konkurrens i dagligvaruhandeln, Torsten Söderbergs Stiftelse
- 2011 Vinna eller försvinna för småbutiker, Fria Foretagare
- 2009 Finns det en Wal-Mart effekt utan Wal-Mart?, Press release Handels Utvecklingsråd
- 2009 Productivity Dynamics and the Role of Big-Box Entrants in Retailing, Press release Konkurrensverket

Computer skills

Extensive programming experience in Java, C++, C, R, Julia, Python, Stata, Visual Basic, Mathematica, TSP, Octave, SAS, PHP, HTML

Extensive experience with numerical algorithms and machine learning

Extensive Linux administration experience

Extensive databases administration experience using SQL

Curriculum Vitae

January 2026

Matilda Orth

Contact Information

Web: <https://sites.google.com/view/matildaorth/home>

Email: matilda.orth@gmail.com

Phone: +46 736 42 38 24

Employment

2024 – Docent of Economics and visiting lecturer
Stockholm School of Economics, Sweden

2024 – Associate Professor
Research Institute of Industrial Economics IFN, Stockholm, Sweden

2013 – 2024 Visiting teacher
Stockholm School of Economics, Sweden

2011 – 2024 Research Fellow
Research Institute of Industrial Economics IFN, Stockholm, Sweden

Research Fields

Empirical Industrial Organization, Applied Microeconomics

Education

PhD in Economics, March 2012, University of Gothenburg, Sweden

Advisor: Lennart Hjalmarsson

Discussant: Professor Amil Petrin, University of Minnesota, USA

MSc in Economics, University of Gothenburg, Sweden

Economics, human geography, political science, two minors: statistics and mathematics

Advisor: Professor Marcus Asplund

Publications

R&D Dynamics and Its Impact on Productivity and Export Demand in Swedish Manufacturing
(with Mark J. Roberts, Florin Maican and Van Anh Vuong), *Journal of the European Economic Association*,
21 (4), p. 1318–1362, 2023

Determinants of Economies of Scope in Retail (with Florin Maican), *International Journal of Industrial
Organization*, 75, 2021

Entry Regulations, Welfare and Determinants of Market Structure (with Florin Maican) *International
Economic Review*, 59 (2), p. 727–756, 2018

Productivity Dynamics and the Role of “Big-Box” Entrants in Retailing (with Florin Maican) *Journal of
Industrial Economics*, LXXV, p. 397–438, 2017

A Dynamic Analysis of Entry Regulations and Productivity in Retail Trade (with Florin Maican) *International
Journal of Industrial Organization*, 40, p. 67–80, 2015

- **Winner of the IJIO Best Paper Award 2016**

Pre-Doctoral Publications:

Opening Local Retail Food Stores: A real-options approach (with SO. Daunfeldt and N. Rudholm), *Journal of Industry, Competition and Trade*, 10 (3), p. 373–387, 2010

Who Visits the Museums? A comparison between stated preferences and observed effects of entrance fees (with E. Lampi), *Kyklos*, 62 (1), p. 85–102, 2009

Handbook and book chapters

Economies of Scope in Retailing (with Florin Maican), Handbook chapter, Elgar Encyclopedia of Retailing, Chapter 55, Edward Elgar, 2025

Monographs

Entry Competition and Productivity in Retail, Doctoral dissertation, no. 203, Department of Economics, School of Business, Economics and Law, University of Gothenburg, 2012

Working Papers

Maican, F. and M. Orth (2025) “Measuring the Dynamic Effects of Building Broadband Infrastructure,” CEPR Discussion Paper 20415, July 2025

Entry Regulations and Product Variety in Retail (with Florin Maican), CEPR Discussion Paper 15992, September 2024

R&D Dynamics and Its Impact on Productivity and Export Demand in Swedish Manufacturing (with Mark J. Roberts, Florin Maican and Van Anh Vuong) NBER Working Paper 27986, CEPR Discussion Paper 15369, 2022

Inventory Behavior, Demand, and Productivity in Retail (with Florin Maican), CEPR Discussion Paper 13308, November 2018

Research Papers in progress

Maican, F. and M. Orth (2025) “Economies of Scope in Retailing,” Handbook chapter, Elgar Encyclopedia of Retailing, Edward Elgar, *forthcoming*

Maican, F. and M. Orth (2024) “The Impact of Entry Reform on Product Access and Quality in Pharmacies”, mimeo, University of Gothenburg and Research Institute of Industrial Economics

Maican, F. and M. Orth (2024) “Demand, Market Structure and Welfare in the Pharmacy Market”, mimeo, University of Gothenburg and Research Institute of Industrial Economics

Maican, F. and M. Orth (2024) “Quantifying the Impact of State Aid to Pharmacies”, mimeo, University of Gothenburg and Research Institute of Industrial Economics

Maican, F. and M. Orth (2024) “Agglomeration Economies in Retail Industries: Implications for Consumers, Firms and Society”, mimeo, University of Gothenburg and Research Institute of Industrial Economics

Maican, F. and M. Orth (2024) “The Impact of Subsidies on Market Structure and Welfare,” mimeo, University of Gothenburg and Research Institute of Industrial Economics

- Best Paper Award, finalist, 50th European Association for Research in Industrial Economics 2023
- Presented at IIOC, EARIE

Maican, F. and M. Orth (2024) “Measuring the Dynamic Effects of Building Broadband Infrastructure,” mimeo, University of Gothenburg and Research Institute of Industrial Economics

- Presented at the 24th CEPR Applied IO Conference, Toulouse School of Economics
- Presented at IIOC, EARIE and SWERIE

Maican, F. and M. Orth (2024) “Broadband Infrastructure and Firm Performance,” mimeo, University of Gothenburg and Research Institute of Industrial Economics

Maican, F. and M. Orth (2019) “Multiproduct Technology and Productivity Dynamics: A Simulation Approach”, mimeo, University of Gothenburg and Research Institute of Industrial Economics

Maican, F., M. Orth and A.K. Petrin (2019) Are Workers Paid their Marginal Product? Evidence from linked employer-employee data, mimeo, University of Minnesota, University of Gothenburg and Research Institute of Industrial Economics

- Presented at the EALE-SOLE-AASLE

Teaching

Stockholm School of Economics

Graduate Industrial Organization, MSc program Econ, 2019-2020 (course director), course evaluation 6.4/7

Graduate Industrial Organization, MSc program Econ, 2018-2019 (course director)

Graduate Industrial Organization, MSc program Econ, 2017-2018 (course director)

Graduate Industrial Organization, MSc program Econ, 2016-2017 (course director)

Graduate Industrial Organization, MSc program Econ, 2015-2016

Graduate Industrial Organization, MSc program Econ, 2014-2015

Microeconomics, BSc program in Retail Management, 2025-2026 (course director), ongoing

Microeconomics, BSc program in Retail Management, 2024-2025 (course director), course evaluation 6.0/7

Microeconomics, BSc program in Retail Management, 2023-2024 (course director),

Microeconomics, BSc program in Retail Management, 2022-2023 (course director)

Microeconomics, BSc program in Retail Management, 2021-2022 (course director)

Microeconomics, BSc program in Retail Management, 2020-2021 (course director)

Microeconomics, BSc program in Retail Management, 2019-2020 (course director)

Microeconomics, BSc program in Retail Management, 2018-2019 (course director)

Microeconomics, BSc program in Retail Management, 2017-2018 (course director)

Quantitative Methods, PhD level, lectures and round tables, Research School, CFR, fall 2022

Quantitative Methods, PhD level, lectures and round tables Research School, CFR, fall 2020

Guest Lecture, Productivity in retailing, BSc program in Retail Management, 2017

Guest Lecture, Research on retail markets, BSc program in Retail Management, 2013 and 2016

University of Gothenburg

Graduate Industrial Organization I, Master course, 2008-2010

Graduate Industrial Organization II, Master course, 2008-2010

Undergraduate Industrial Organization, Intermediate level, 2005-2006 and 2010

Microeconomics, TA, Introductory level, 2005-2006 and 2010

Supervision

Stockholm School of Economics

Master thesis, 2019/2020, in collaboration with H&M

Master thesis, 2018/2019

Master thesis, 2018/2019, in collaboration with Spotify

Master thesis, 2018/19

Master thesis, 2017/2018

Master thesis, 2017/2018

Master thesis, Karin Fura och Elsa Horn af Rantzien, 2017/2018, in collaboration with the Swedish eHealth Agency

- Awarded prize for “Best Master thesis in competition economics” by the Swedish Competition Authority 2017

University of Gothenburg

Bachelor thesis, 2008/2009

Faculty Opponent and Grading Committees

International Review Panel Committee, University quality assessment, University of Galway, Ireland, 2024-2025

Ph.D. Grading Committee, Tove Forsbacka, “The Evolution of Competition: The Role of Institutional Ownership, Measurement, and Regulation” Department of Economics, SSE, May 2024

Ph.D. Faculty Opponent 2nd, Andreas Tveito, “Price Coordination and Consumer Behavior: Evidence from Retail Fuel”, University of Bergen, Norway, April 2022

Research Awards

The 50th European Economic Association for Research in Industrial Economics, EARIE, Best Paper Award, finalist 2023

The *International Journal of Industrial Organization* Best Paper Award 2016

Master thesis awarded prize for “Best Bachelor/Master thesis in industrial organization” by the Swedish Competition Authority 2002

Referee

American Economic Journal: Microeconomics, Economics Letters, International Journal of Industrial Organization, Journal of Behavioral and Experimental Economics, Journal of Economic Geography, Journal of Industrial Economics, Journal of the European Economic Association, Journal of Urban Economics, the Annals of Regional Science, Scandinavian Journal of Economics, Social Science Research

Research Visits

2025 Mannheim University, November
2025 Pennsylvania State University, October
2017 KU Leuven, March
2016 University of Rennes, France, October
2015 Pennsylvania State University, April
2014 Pennsylvania State University, October
2009 Tilburg University, May
2007 Toulouse School of Economics

Conferences

2023 Nordic Workshop in Industrial Organization, NORIO
2022 AEA-ASSA Meetings, Virtual
Swedish Workshop in Industrial Organization, SWERIE
2020 EALE SOLE AASLE World Conference, Virtual
2019 Conference of the European Econ. Assoc. for Research in Ind. Economics, EARIE, Barcelona
Nordic Workshop in Industrial Organization, NORIO
2016 Understanding the Roots of Productivity Dynamics, Bank of Italy, Rome
2015 International Industrial Organization Conference, IIOC, Boston
2014 Conference of Swedish Network for European Studies in Economics and Business
2013 Swedish Workshop on Competition Research
2012 Conference of the European Econ. Assoc. for Research in Ind. Economics, EARIE, Rome
INFORMS Marketing Science Conference, Boston
International Industrial Organization Conference, IIOC, Washington
EIEF, Rome, Workshop on Structural Approaches to Productivity and Industrial Dynamics
2011 European Meeting of the Econometric Society, EEA-ESEM, Oslo
Swedish Economic Association Conference

- 2010 International Industrial Organization Conference, IIOC, Boston
Swedish Economic Association Conference
XXV Jornadas de Economía Industrial, Madrid
Conference of the European Econ. Assoc. for Research in Ind. Economics, EARIE, Istanbul
Annual Conference of the European Economic Association, EEA-ESEM, Glasgow
Nordic Workshop in Industrial Organization, NORIO, Bergen
- 2009 Conference of the European Econ. Assoc. for Research in Ind. Economics, EARIE, Ljubljana
Swedish Workshop on Competition Research
- 2008 Conference of the European Econ. Assoc. for Research in Ind. Economics, EARIE, Toulouse
Nordic Retail and Wholesale Conference
- 2007 Conference of the European Econ. Assoc. for Research in Ind. Economics, EARIE, Valencia
Nordic Workshop in Industrial Organization, NORIO
- 2006 Conference of the European Econ. Assoc. for Research in Ind. Economics, EARIE, Amsterdam
Spring Meeting for Young Economists, Seville
Workshop on Advances in the Empirical Analysis of Retailing, Berlin
- 2005 Conference of the European Econ. Assoc. for Research in Ind. Economics, EARIE, Porto
Annual Conference of the European Economic Association, EEA, Amsterdam
Nordic Workshop in Industrial Organization, NORIO, Reykjavik

Invited Seminars

- 2025 University of Mannheim, Germany
- 2025 Office of Communications (Ofcom), London, UK
- 2022 Federal Communications Commission (FCC), Washington DC, US
- 2016 University of Rennes, France
- 2017 Linnaeus University
- 2014 Royal Institute of Technology
- 2013 Sodertorn University
- 2012, 2002 Swedish Competition Authority
- 2010 Research Institute of Industrial Economics
- 2009 Tilburg University
- 2007 Toulouse School of Economics

Paper Discussant

- 2023 Nordic Workshop in Industrial Organization, NORIO
- 2019 Nordic Workshop in Industrial Organization, NORIO
- 2015 International Industrial Organization Conference, IIOC, Boston
- 2012 Conference of the European Econ. Assoc. for Research in Ind. Economics, EARIE, Rome
CEPR / JIE Conference on Applied IO, Cyprus
International Industrial Organization Conference, IIOC, Washington
- 2011 International Industrial Organization Conference, IIOC, Boston
IFN Conference on Entrepreneurship, Firm Growth and Ownership Change
- 2010 XXV Jornadas de Economía Industrial, Madrid
Swedish Economic Association Conference

Organizer of seminars and conferences

- 2011– Host and seminar organizer of visiting professors at the IFN
- 2011 Responsible organizer of IFN's seminar series

Research Grants and Scholarships

Johan and Jakob Söderberg Foundation (PI) 2026-2028

Kamprad Family Foundation for Entrepreneurship, Research and Charity
"Health Care for Elderly: the Swedish Pharmacy Market" (PI) 2021-2024

Torsten Söderberg Foundation

“Competition in Health Care Markets: the Swedish Pharmacy Market” (PI) 2021-2024

“Competition in Retail Trade” 2013-2016

Swedish Competition Authority

“Priser, Marginaler och Konkurrens på Livsmedelsmarknaden i tider av osäkerhet” (PI) 2024-2026

“Investments, Productivity and Competition in the Broadband Market” (PI) 2017-2021

“Dynamic Store Adjustment: Switching Store Formats in Retail” 2010-2011

“Differentiation and Competition in Food Retailing: The case of discounters” 2009

“How do 'Big-Box' Entrants Influence Competition and Productivity in Local Food Retailing?” 2007-2008

The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (Formas)

“Policy Evaluation for Sustainable Regional Development” (PI) 2017-2021

Swedish Retail and Wholesale Development Council (Handelsrådet)

“Strategic Positioning in the Retail Food Market” (PI) 2012-2014

“Is there a Wal-Mart effect without Wal-Mart? A Dynamic Analysis of Retail Productivity” 2008

Jan Wallander and Tom Hedelius Foundation

“Ägandeformer, etablering och konkurrens på tjänstemarknader i stad och landsbygd” 2018-2021

Markussens Forskningsfond 2007, Adlerbertska Forskningsstiftelsen 2006

Expert

2025 – Member of the Research Council, Swedish Competition Authority

2013 – 2025 Economic Expert Judge, Swedish Patent and Market Court of Appeal (Patent- och Marknadsöverdomstolen)

2011 – Economic Expert Judge, Swedish Administrative Court (Förvaltningsdomstolen)

2024 Reference group member, Swedish Competition Authority

2024 Reference group member, Swedish Defense Research Agency (FOI)

2023 Reference group member, Swedish Competition Authority

2014 Reference group member, Swedish Competition Authority

Workshops and Course Work

2022 Competition and regulation in digital markets, mini course, Tommaso Valetti, Imperial College London and University of Rome “Tor-Vergata”, SSE

2021 The production approach to market power, mini course, Jan De Loecker, KU Leuven, SSE

2014 Productivity: Firms and Markets, mini course, Chad Syverson, Booth School of Business, University of Chicago, SSE

2013 Auctions and Collusion, mini course, John Asker, Stern School of Business, New York University, SSE

2009 Structural Econometrics for IO, course, Victor Aguirregabiria, University of Toronto, CEMFI
Empirical IO, course, Daniel Akerberg, UCLA, Helsinki School of Economics

2007 Structural Econometrics for IO, course, Victor Aguirregabiria, University of Toronto, Helsinki School of Economics

2006 Empirical IO, mini course, Ariel Pakes, Harvard University, SSE

2005 Empirical IO, course, Ariel Pakes, Harvard University, Helsinki School of Economics

Administrative positions and experience

2023 Recruitment committee IFN, tenure-track position

2023 Recruitment committee IFN, several RA positions

2022 Recruitment committee IFN, tenure-track position

Policy Work

2025	Research Consultant, SNS
2022	Research Consultant, Swedish Competition Authority
2015	Research Consultant, Swedish Retail and Wholesale Council
2008	Research Consultant, Swedish Retail and Wholesale Development Council
2007	Consultant, Swedish Civil Aviation Authority
2004	Consultant, Swedish Competition Authority

Policy presentations

Office of Communications (Ofcom), “The Dynamic Effects of Building Broadband Infrastructure”, seminar, London, United Kingdom, April 2025

Swedish Post and Telecom Authority, policy seminar, “The Dynamic Effects of Building Broadband Infrastructure”, Stockholm, 2023

Swedish Competition Authority, policy seminar, “Competition in the Market for Pharmacies and Pharmaceuticals”, Stockholm, December 2022

Federal Communications Commission (FCC), “The Dynamic Effects of Building Broadband Infrastructure”, seminar, Washington DC, USA, October 2022

Board of Directors IFN, “Deregulation of the Pharmacy Market”, 2021

Chairman of Board IFN, “Deregulation and Product Variety”, 2019

National Institute of Economic Research (Konjunkturinstitutet), “Productivity in Services”, Stockholm, August 2018

Alumni Meeting IFN, “Market Dynamics in Retail”, 2016

Board of Directors IFN, “Structural Change and Productivity in Services”, 2011

School of Business Day, University of Gothenburg, “Is there a Walmart Effect Without Walmart?”, 2007

Publications in Swedish

Tullar – ett hårt slag mot innovation (Trade Policy and its Impact on Innovation), *Ekonomisk Debatt*, No. 5, 2025 (with Florin Maican)

Digitalisering, strukturomvandling och produktivitet i tjänsteföretag (Digitalization, Structural Change and Productivity in Services), *Ekonomisk Debatt*, No. 1, 2018 (with Florin Maican)

- Presented at the National Institute of Economic Research (Konjunkturinstitutet), August 2018
- Cited by Sveriges Riksbank

Marknadsstruktur och dynamik i dagligvaruhandeln (Dynamics of Market Structure in Retail), *Ekonomisk Debatt*, No. 1, 2012 (with Florin Maican)

Popular Science Reports

Produktivitet in en ny ekonomisk verklighet: investeringar, teknologi och marknadsdynamik, Research report, Studieförbundet Näringsliv och Samhälle, SNS, 2025 (with Florin Maican)

Apoteksmarknaden ur ett konkurrensperspektiv, Research report, Swedish Competition Authority, No. 4, 2022 (with Florin Maican)

The Dynamic Impact of Exporting on Firm R&D Investment, VoxEU column, January 2021

Strategisk mix av dagligvarubutiksformat – metoder för att effektivt analysera marknaden, Swedish Retail and Wholesale Council 2016:1 (with Florin Maican)

Finns det en Wal-Mart effekt utan Wal-Mart? (Is there a Wal-Mart effect without Wal-Mart?), Swedish Retail and Wholesale Council 2009:1 (with Florin Maican)

Vem konkurrerar med vem på flygmarknaden? En studie av flygmarknadens segment (Product Market Competition in the Airline Industry), Swedish Civil Aviation Authority 2008:2 (with Florin Maican)

Tjugo års utredande av höga matpriser och otillfredsställande kvalitet: Vad har man egentligen kommit fram till? (Twenty years of investigating high retail-food prices and unsatisfactory quality: what are in fact the results?), Swedish Competition Authority, 2004

Popular science articles

Handelshinder minskar FoU-satsningar, IFN Yearbook 2023

Apoteket efter omregleringen, IFN Yearbook 2022

Konkurrens och osäkerhet i hälso- och sjukvården: Den svenska apoteksmarknaden, Torsten Söderberg Foundation Yearbook 2020

Deregulating Retail: The Hidden Impact of a Lower Bar to Entry, IFN Newsletter, No. 2, 2019

Mindre strikt reglering ökar produktiviteten i detaljhandeln, IFN Newsletter, No. 5, 2014

Selection of media coverage

Sveriges Radio Ekot (SR), Intervju om tullar, innovationer och produktivitet, 2025

I Trumps värld blir vi alla dummare, Svenska Dagbladets ledarsida, 2025

Hemligheten bakom ökad produktivitet, DI Debatt, 2025

Produktivitet i en ny ekonomisk verklighet, Pressmeddelande SNS 2025

Produktivitet i en ny ekonomisk verklighet, Örebro nyheter, IT-finans, Infrastrukturen, VD-tidningen,

Gjuteriet, Dagens infrastruktur, Ekbladet, 2025

Matpriserna och politikerna, Smedjan, 2023

Så har marknaden utvecklats sedan monopolet avskaffades, Svensk Farmaci, 2023

Granskning: De är vinnare i kampen om marknaden, Fri Köpenskap, 2023

Hur kan bankerna skörda jättevinst trots växande kundmissnöje? Omni ekonomi, 2023

Inga statligt ägda apotek i Västerbottens inland, Västerbottens folkblad, 2022

Apoteksmarknaden ur ett konkurrensperspektiv, Konkurrensverkets nyhetsbrev, 2022

Framtiden för våra köpcentrum, Intervju i Sveriges radio (SR), 2017

Se möjligheterna med big data, Fri Köpenskap, 2016

Etablering av nya butiker, Market, 2016

Om regleringen av nya butiker, Dagens samhälle, 2016

Det handlar om att handla, IFN Podcast 2015

Coop slopar butiksnamnet Konsum, Ekonomiekot, Sveriges radio (SR), 2015

Stormarknad får vika om vi ställer bilen, Dagens Nyheter, 2014

Efter 33år slår de igen lanthandeln i Hörja, Expressen, 2014

Lokal marknad ett svar på storhandel, Intervju i Sveriges radio (SR), 2013

Vinna eller försvinna för småbutiker, Fria Företagare, 2011

Avgift spelar roll för vem som besöker Museum, Göteborgs Posten, 2008

Lidl och Nettos konkurrens undersöks, Fri Köpenskap, 2008

Porträttet, Fri Köpenskap, 2008

References

Professor Mark J. Roberts
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Academic Affiliations

Research Fellow: Centre for Economic Policy Research (CEPR)
Research Group: IO @ Leuven
Google Scholar: <http://scholar.google.be/citations?user=vGYuoKUAAAAJ&hl=en>
IDEAS/RePEc: <https://ideas.repec.org/e/pve137.html>

Education

1993 Ph.D. in Economics, University of Toronto
Title: "Theoretical and Empirical Essays in Oligopoly Behavior" (Supervisor: Nancy Gallini)
1989 M.A. in Economics, University of Toronto
1988 Lic. in Economics, KU Leuven
1986 Kan. in Economics, KU Leuven

Research Fields of Interest

Industrial Organization, Competition Policy, Applied Microeconomics

Professional Experience

2006-present Professor (Gewoon Hoogleraar), KU Leuven
2002-2006 Professor (Hoogleraar), KU Leuven
2000-2002 Associate Professor (Hoofddocent), KU Leuven
2000-2001 Professor (Hoogleraar), University of Antwerp (Part-time)
1998-2000 Associate Professor (Hoofddocent), University of Antwerp
1997-1998 Assistant Professor (Docent), University of Antwerp
1996-1997 KU Leuven service
1995-1996 Postdoctoral Researcher, FWO/KU Leuven
1993-1995 Postdoctoral Researcher, CentER Tilburg University
1988-1993 Teaching Assistant, University of Toronto

Editorial Positions

- Co-Editor, *American Economic Review*, 2026-
- Managing Editor, *International Journal of Industrial Organization*, 2019-2022
- Associate Editor, *Review of Network Economics*, 2016-
- Associate Editor, *De Economist*, 2011-
- Associate Editor, *Economic Journal*, 2011-2016
- Co-editor, *Journal of Industrial Economics*, 2003-2008
- Associate Editor, *Journal of the European Economic Association*, 2003-2008
- Associate Editor, *Journal of Industrial Economics*, 1999-2003

KU Leuven Service

- Member of Assessment Committee Economics & Business, 2016-
- Chairman of Department of Economics, 2013-2017
- Member of University Research Council, 2010-2012

Research Fellowships and Memberships

- Centre for Economic Policy Research (CEPR), London, 1997-
- CentER for Economic Research, Tilburg University, 1997-
- Holder of the Orange Chair of Regulation and Innovation, Telecom ParisTech, 2012-2015
- Academic Panel, Ofcom, UK, 2008-
- Economic Advisory Group Competition Policy, European Commission, 2003-
- Elected academic member steering committee of the Association of Competition Economists (ACE), 2008-2011

Publications

Note: Frank Verboven has published extensively in top economics journals including American Economic Review, Review of Economic Studies, Journal of Political Economy, American Economic Journal(s), and RAND Journal of Economics. The list below includes selected recent publications. For a complete publication list (1995-2025), please visit: <https://sites.google.com/site/frankverbo/research>

Selected Recent Publications

Private Monopoly and Restricted Entry: Evidence from the Notary Profession (with Biliana Yontcheva) *Journal of Political Economy*, 2024

Estimating Substitution Patterns and Demand Curvature in Discrete-Choice Models of Product Differentiation (with Cameron Birchall and Debashrita Mohapatra, *Review of Economics and Statistics*, forthcoming, 2024

Evaluating the Impact of Online Market Integration - Evidence from the EU Portable PC Market (with Nestor Duch-Brown, Lukasz Grzybowski, and André Romahn), *American Economic Journal: Microeconomics*, 2023, 15, 268-305 (June 2020)

Search Costs and Context Effects (with Heiko Karle, Florian Kerzenmacher, and Heiner Schumacher) *American Economic Journal: Microeconomics*, 2023

Market Entry, Fighting Brands and Tacit Collusion: the Case of the French Mobile Telecommunications Market (with Marc Bourreau and Yutec Sun), *American Economic Review*, 2021, 111(11), 3459-99

Subsidies and Time Discounting in Technology Adoption: Evidence from Solar Photovoltaic Systems (with Olivier De Groot), *American Economic Review*, 2019, 109(6), 2137-72

Are Online Markets More Integrated than Traditional Markets? Evidence from Consumer Electronics (with Nestor Duch-Brown, Lukasz Grzybowski, and André Romahn), *Journal of International Economics*, 2021, 131, 103476

Consumer Valuation of Fuel Costs and Tax Policy: Evidence from the European Car Market (with Laura Grigolon and Mathias Reynaert), *American Economic Journal: Economic Policy*, 2018, 10(3), 193-225

Exclusive Dealing as a Barrier to Entry? Evidence from the Car Market (with Laura Nurski), *Review of Economic Studies*, 2016, 83, 1156-1188

Does Merger Simulation Work? Evidence from the Swedish Analgesics Market (with Jonas Björnerstedt), *American Economic Journal: Applied Economics*, 2016, 8(3), 125-164

Unbundling the Incumbent: Evidence from UK Broadband (with Mattia Nardotto and Tommaso Valletti) *Journal of the European Economic Association*, 2015, 13(2), 330-362

Investment and Usage of New Technologies: Evidence from a Shared ATM Network (with Stijn Ferrari and Hans Degryse), *American Economic Review*, 2010, 100(3), 1046-1079

The Evolution of Price Dispersion in the European Car Market (with Pinelopi K. Goldberg), *Review of Economic Studies*, 2001, 68(4), 811-848

Quality-based Price Discrimination and Tax Incidence – the Market for Gasoline and Diesel Cars In Europe, *RAND Journal of Economics*, 2002, 33(2), 275-297

International Price Discrimination in the European Car Market, *RAND Journal of Economics*, 1996, 27(2), 240-268

Selected Awards and Grants

- Methusalem, 2015-2022: The granular economy (co-promotor)
- KU Leuven Centre of Excellence, 2010-2018: Governments & Markets
- Multiple FWO (Fund for Scientific Research, Flanders) research projects as promotor
- PAI Projects (co-promotor, 2003-2006, 2007-2011)
- RTN Network Fellowship (promotor Leuven node, 2002-2006)
- Tweejaarlijkse Prijs Vereniging voor Economie, 2001
- Winner of "Young Economists' Essay Competition" European Association of Research in Industrial Economics, 1992

Teaching

Graduate: Microeconomics, Applied Econometrics, Advanced Industrial Organization, Empirical Industrial Organization, Empirical Methods in Competition Policy, Network Industries and the Digital Economy

Undergraduate: Intermediate Microeconomics, Industrial Organization, Seminar Economic Policy & Econometrics

Refereeing Services

Research Grants: US National Science Foundation, EU-ERC, FWO (Flanders)

Journals: American Economic Review, Econometrica, Economic Policy, European Economic Review, International Journal of Industrial Organization, Journal of Applied Econometrics, Journal of Economic Behavior and Organization, Journal of the European Economic Association, Journal of Political Economy, Journal of Public Economics, RAND Journal of Economics, Review of Economics and Statistics, Review of Economic Studies, Quarterly Journal of Economics, and other leading journals.

Selected Conference Service

Organizer

- Flemish Economic Association (bi-annual) 2010 (Leuven)
- CEPR IO Conference 2003 (Leuven)

Keynote Lectures

- EARIE 2017 (Maastricht)
- ParisTech ICT conference 2017 (Paris)
- CEPR Applied IO Conference 2013 (Bologna)

- Research Network on Innovation and Competition Policy 2009 (Vienna)
- Spanish Industrial Economics Association 2008 (Reus)

Languages

Fluent in Dutch and English, good knowledge of French