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Research interests

Tax compliance; income inequality and redistribution in the international comparison; the effects of public policies on income distribution and labour market; fiscal microsimulation

Employment

2016 – present	Senior analyst (<i>part time, 0.25 FTE</i>) PRAXIS Centre for Policy Studies, Tallinn, Estonia
2009 – present	Research fellow (<i>since 2016 part time, 0.75 FTE</i>) Institute for Social & Economic Research, University of Essex, UK
2006 – 2009	Senior research officer Institute for Social & Economic Research, University of Essex, UK
2005 – 2006	Analyst PRAXIS Centre for Policy Studies, Tallinn, Estonia

Education

2007 – 2015	PhD in Economics – ISER, University of Essex, UK <i>Thesis: Essays on taxation and income measurement</i> <i>Supervisors: prof. Stephen Pudney, prof. Holly Sutherland</i> <i>Examiners: prof. Gareth Myles, prof. Brian Nolan</i>
2003 – 2006	MA in Economics – Faculty of Economics and Business Administration (FEBA), University of Tartu, Estonia
2001	Undergraduate studies of International Business – Denmark's International Study (DIS) Program, Copenhagen, Denmark
1999 – 2003	BA in Economics (<i>cum laude</i>) – FEBA, University of Tartu, Estonia

Other professional experience

2017	Visiting Researcher, Bank of Estonia
2016 – 2019	Coordinator of ISER Visitor Programme, University of Essex
2016 – 2019	Editor of EUROMOD Working Papers series, University of Essex
2016 – 2019	Co-supervisor for PhD studies (C. Robles, E. Rubolino, F. Bezzo), University of Essex
2007 – 2019	Instructor, EUROMOD training courses (Essex Summer School, University of Essex, IARIW, European Commission, Estonian Ministry of Finance, Italian Ministry of Finance)
2004 – 2005	Member of the Council of FEBA, University of Tartu
2004	External expert, PRAXIS Centre for Policy Studies
2003 – 2005	Teaching and research assistant, University of Tartu

Refereed journal articles

- Vainre, M., Aaben, L., Paulus, P., Koppel, H., Tammsaar, H., Telve, K., Koppel, K., Beilmann, K. & Uusberg, A. (forthcoming), "Nudging towards tax compliance: A fieldwork-informed randomised controlled trial", *Journal of Behavioral Public Administration*.
- Paulus, A. & Tasseva, I. (2020), "Europe through the crisis: discretionary policy changes and automatic stabilisers", *Oxford Bulletin of Economics and Statistics*. [doi: [10.1111/obes.12354](https://doi.org/10.1111/obes.12354), Open Access]
- Kukk, M., Paulus, A. & Staehr, K. (2019), "Cheating in Europe: underreporting of self-employment income in comparative perspective", *International Tax and Public Finance*. [doi: [10.1007/s10797-019-09562-9](https://doi.org/10.1007/s10797-019-09562-9), Open Access]
- Paulus, A., Sutherland, H. & Tasseva, I. (2019), "Indexing out of poverty? Fiscal drag and benefit erosion in cross-national perspective", *Review of Income and Wealth*. [doi: [10.1111/roiw.12413](https://doi.org/10.1111/roiw.12413), Open Access]
- Dolls, M., Doorley, K., Paulus, A., Schneider, H. & Sommer, E. (2019), "Demographic change and the European income distribution", *Journal of Economic Inequality*, 17(3), 337-357. [doi: [10.1007/s10888-019-09411-z](https://doi.org/10.1007/s10888-019-09411-z), Open Access]
- Figari, F., Paulus, A., Sutherland, H., Tsakloglou, P., Verbist, G. & Zantomio, F. (2017), "Removing homeownership bias in taxation: the distributional effects of including net imputed rent in taxable income", *Fiscal Studies*, 38(4), 525–557. [doi: [10.1111/1475-5890.12105](https://doi.org/10.1111/1475-5890.12105), Open Access]
- Dolls, M., Doorley, K., Paulus, A., Schneider, H., Siegloch, S. & Sommer, E. (2017), "Fiscal sustainability and demographic change: a micro approach for 27 EU countries", *International Tax and Public Finance*, 24(4), 575-615. [doi: [10.1007/s10797-017-9462-3](https://doi.org/10.1007/s10797-017-9462-3)]
- Paulus, A., Figari, F. & Sutherland, H. (2017), "The design of fiscal consolidation measures in the European Union: distributional effects and implications for macro-economic recovery", *Oxford Economic Papers*, 69(3), 632-654. [doi: [10.1093/oep/gpw054](https://doi.org/10.1093/oep/gpw054), Open Access]
- Figari, F. & Paulus, A. (2015), "The distributional effects of taxes and transfers under alternative income concepts: the importance of three 'I's", *Public Finance Review*, 43(3), 347-372. [doi: [10.1177/1091142113506930](https://doi.org/10.1177/1091142113506930)]
- Figari, F., Paulus, A. & Sutherland, H. (2011), "Measuring the size and impact of public cash support for children in cross-national perspective", *Social Science Computer Review*, 29(1), 85-102. [doi: [10.1177/0894439310370104](https://doi.org/10.1177/0894439310370104)]
- Paulus, A., Sutherland, H. & Tsakloglou, P. (2010), "The distributional impact of in kind public benefits in European countries", *Journal of Policy Analysis and Management*, 29(2), 243-266. [doi: [10.1002/pam.20490](https://doi.org/10.1002/pam.20490)]
- Paulus, A. & Peichl, A. (2009), "Effects of flat tax reforms in Western Europe", *Journal of Policy Modeling*, 31, 620-636. [doi: [10.1016/j.jpolmod.2009.06.001](https://doi.org/10.1016/j.jpolmod.2009.06.001)]

Book chapters

- Hills, J., Paulus, A., Sutherland, H. & Tasseva, I. (2019), "Policy and poverty in seven EU-countries in the Lisbon Decade: The contribution of tax-benefit policy changes", in Cantillon, B., Goedemé, T. & Hills, J. (Eds.) *Decent Incomes for All: Improving Policies in Europe*. New York: Oxford University Press, pp. 108-132. [doi: [10.1093/oso/9780190849696.001.0001](https://doi.org/10.1093/oso/9780190849696.001.0001)]
- Figari, F., Paulus, A. & Sutherland, H. (2015), "Microsimulation and Policy Analysis", in Atkinson, A.B. & Bourguignon, F. (Eds.) *Handbook of Income Distribution*, Vol 2B. Amsterdam: Elsevier, pp. 2141-2221. [doi: [10.1016/B978-0-444-59429-7.00025-X](https://doi.org/10.1016/B978-0-444-59429-7.00025-X), near-final version: [ISER WP 2014-23](#)]

- Paulus, A., Čok, M., Figari, F., Hegedüs, P., Kralik, S., Kump, N., Lelkes, O., Levy, H., Lietz, C., Mantovani, D., Morawski, L., Sutherland, H., Szivos, P. & Võrk, A. (2009), “The effects of taxes and benefits on income distribution in the enlarged EU”, in Lelkes, O. & Sutherland, H. (Eds.) *Tax and Benefit Policies in the Enlarged Europe: Assessing the Impact with Microsimulation Models*. Vienna: Ashgate, pp. 65-90. [near-final version: [EM WP 8/09](#)]
- Paulus, A., Lelkes, O., Čok, M., Kump, N., Hegedüs, P., Võrk, A., Szivos, P. & Kralik, S. (2009), “Flat tax reform in Eastern Europe: comparative analysis of alternative scenarios in Estonia, Hungary and Slovenia, using EUROMOD”, in Lelkes, O. & Sutherland, H. (Eds.) *Tax and Benefit Policies in the Enlarged Europe: Assessing the Impact with Microsimulation Models*. Vienna: Ashgate, pp. 91-124. [near-final version: [EM WP 9/09](#)]
- Paulus, A., Figari, F. & Sutherland, H. (2009), “The effect of taxes and benefits on income distribution”, in Ward, T. et al. (Eds.) *European Inequalities: Social Inclusion and Income Distribution in the European Union*, Budapest: Tarki, pp. 153-175. [[download](#)]
- Kriz, K., Meriküll, J., Paulus, A. & K. Staehr (2008), “Why do individuals evade payroll and income taxation in Estonia?”, in Pickhardt, M. & Shinnick, E. (Eds.) *The shadow economy, corruption and governance*. Cheltenham: Edward Elgar Publishing, pp. 240-264. [near-final version: [FEBA WP 49](#)]
- Kriz, K., Paulus, A. & Staehr, K. (2006), “Local government fees and user charges in Estonia”, in Šević, Ž. (ed.) *Local government non-tax revenue sources in transition countries: User fees and charges*. Bratislava: NISPAcee, pp. 104-129.
- Paulus, A. (2004), “Income inequality and its decomposition: The case of Estonia”, in Paas, T. & Tafenau, E. (Eds.) *Modelling the economies of the Baltic Sea region*. Tartu: TU Press, pp. 206-235. [[download](#)]

Working papers and other publications

- Paulus, A & Klein, C. (2019), “Effects of tax-benefit policies on the income distribution and work incentives in Estonia”, [OECD Economics Department Working Paper No. 1570](#).
- Paulus, A. & Tasseva, I. (2018), “Europe through the crisis: Discretionary policy changes and automatic stabilisers”, [EUROMOD Working Paper 16/18](#), ISER, University of Essex.
- Paulus, A. (2016), “The antipoverty performance of universal and means-tested benefits with costly take-up”, [ImPROvE Working Paper 16/12](#).
- Hufkens, T., Verbist, G., Figari, F., Gábos, A., Kalavrezou, N., Matsaganis, M. & Paulus, A. (2016), “The distributive effects of work-family life policies in European welfare states”, [ImPROvE Working Paper 16/09](#).
- Paulus, A. (2015), “Income underreporting based on income-expenditure gaps: survey vs tax records”, [ISER Working Paper 2015-15](#).
- Paulus, A. (2015), “Tax evasion and measurement error: An econometric analysis of survey data linked with tax records”, [ISER Working Paper 2015-10](#).
- Võrk, A., Leetmaa, R., Paulus, A. & Anspal, S. (2006), “Tax-benefit systems in the new member states and their impact on labour supply and employment”, [PRAXIS Working Paper No. 29](#).
- Paulus, A., Võrk, A. & Alho, K. (2006), “A comparative general equilibrium analysis of the Estonian labour market”, [PRAXIS Working Paper No. 28](#).

In Estonian

- Võrk, A., Paulus, A. & Leppik, C. (2014), „Lastega peredele mõeldud toetuste mõju vaesusele ja töötamise stiimulitele”, [Riigikogu Toimetised Nr 30](#), lk 61-69.

- Võrk, A. & Paulus, A. (2007), "Peredele suunatud rahaliste toetuste mõju vaesuse leevendamisele Eestis", [Riigikogu Toimetised Nr 15](#), lk 98-105.
- Paulus, A. (2004), "Hariduslik ebavõrdsus Eestis 1959-2000: keskmine õpiaeg ja hariduse Gini koefitsient", [PRAXIS Poliitikaanalüüs Nr 7](#).

Commissioned reports

- Paulus, A., Kukk, M. & Staehr, K. (2018), "Assessment of tax evasion based on consumption, wealth and income using EUROMOD", European Commission.
- Paulus, A. (2017), "The effects of tax-benefit policies on the income distribution and work incentives in Estonia", OECD.
- De Agostini, P., Capéau, B., Decoster, A., Figari, F., Kneeshaw, J., Leventi, C., Manios, K., Paulus, A., Sutherland, H. & Vanheukelom, T. (2017) "EUROMOD extension to indirect taxation: final report", [EUROMOD Technical Note 3.0](#).
- Paulus, A. (2017) "Assessment of tax evasion and tax non-compliance with the EUROMOD model in Estonia", European Commission.
- Paulus, A. & Tasseva, I. (2016), "Decomposition of changes in the EU income distribution in 2007-2011", [Social Situation Monitor Research Note 2/2016](#), European Commission. [Also available as [EUROMOD WP 9/17](#).]
- De Agostini, P., Paulus, A. & Tasseva, I. (2015), "The effect of tax-benefit changes on the income distribution in 2008-2015", [Social Situation Monitor Research Note 2/2015](#), European Commission. [Also available as [EUROMOD WP 6/16](#).]
- Paulus, A. (2015), „Changes in the household income distribution and the role of tax-benefit policies: Poland in 2006-2013“, World Bank.
- De Agostini, P., Paulus, A. & Tasseva, I. (2014), "The effect of tax-benefit changes on the income distribution in 2008-2014", [Social Situation Monitor Research Note 2/2014](#), European Commission. [Also available as [EUROMOD WP 11/15](#).]
- De Agostini, P., Paulus, A., Sutherland, H. & Tasseva, I. (2013), "The effect of tax-benefit changes on income distribution in EU countries since the beginning of the economic crisis", [Social Situation Monitor Research Note 2/2013](#), European Commission. [Also available as [EUROMOD WP 9/14](#).]
- Avram, S., Figari, F., Leventi, C., Levy, H., Navicke, J., Matsaganis, M., Militaru, E., Paulus, A., Rastrigina, O. & Sutherland, H. (2012), "The distributional effects of fiscal consolidation in nine EU countries", [Research Note 01/2012](#), Social Situation Observatory on Income Distribution and Living Conditions, European Commission. [Also available as [EUROMOD WP 2/13](#).]
- Callan, T., Leventi, C., Levy, H., Matsaganis, M., Paulus, A. & Sutherland, H. (2011), "The distributional effects of austerity measures: a comparison of six EU countries", [Research Note No 2/2011](#), European Observatory on the Social Situation and Demography, European Commission. [Also available as [EUROMOD WP 6/11](#).]
- Matsaganis, M., Paulus, A., & Sutherland, H. (2008), "The take up of social benefits", [Research Note 5/2008](#), European Observatory on the Social Situation and Demography, European Commission.
- Sutherland, H., Figari, F., Lelkes, O., Levy, H., Lietz, C., Mantovani, D. & Paulus, A. (2008), "Improving the Capacity and Usability of EUROMOD - Final Report", [EUROMOD Working Paper 4/08](#).
- Lüpsik, S., Võrk, A. & Paulus, A. (2008), "EUROMOD Country Report – Estonia", 2005.
- Lüpsik, S., Paulus, A. & Võrk, A. (2006), "I-CUE Feasibility Study: Estonia (2005 tax-benefit system)".

In Estonian

- Paulus, A. (2018), „EUROMODi Eesti mudelile registripõhiste sisendandmete koostamise ja kasutuselevõtu teostatavuse analüüs“, Rahandusministeerium.
- Koppel, K., Pisarev, H., Piirits, M., Michelson, A., Masso, M., Paulus, A., Laurimäe, M. (2018), „Elatusmiinimum – teel parema toeni puudustkannatavate inimesteni“, Sotsiaalministeerium. [[raport](#)]
- Paulus, A. (2018), „Maksusüsteemi kujundamise üldine raamistik, lähtekohad ja väljakutsed“, Rahandusministeerium, Sotsiaalministeerium, Majandus- ja Kommunikatsioniministeerium. [[teemapaber](#)]
- Võrk, A., Piirits, M., Leppik, C., Tammik, M. & Paulus, A. (2016), „Maksupoliitika mõju leibkondade maksukoormuse jaotumisele“, Rahandusministeerium. [[raport](#)]
- Võrk, A., Paulus, A. & Leppik, C. (2014), “Perele mõeldud toetuste ning alushariduse ja lapsehoiu rahastamise mõju analüüs”, Riigikantselei. [[raport](#)]
- Leetmaa, R., Masso, M., Võrk, A., Karu, M., Veldre, V., Paulus, A. & Turk, P. (2012), “Sotsiaalkaitsehüvitiste ja -toetuste mõju töömotivatsioonile”, Sotsiaalministeerium. [[raport](#)]
- Võrk, A., Paulus, A. & Poltimäe, H. (2008), “Maksupoliitika mõju leibkondade maksukoormuse jaotumisele”, Rahandusministeerium. [[PRAXIS Toimetis Nr 42.](#)]
- Võrk, A. & Paulus, A. (2007), “Perele suunatud rahaliste toetuste mõju vaesuse leevendamisele Eestis: Analüüs mikrosimulatsioonimeetodi abil”, Sotsiaalministeerium. [[raport](#)]
- Paulus, A. (2006), “Majapidamiste sissetulekud ja tarbimiskäitumine”, Eesti Pank.
- Annus, T., Kraut, L., Paulus, A., Sarapuu, M. & Võhandu, P. (2006), “Tartu ja Lõuna-Eesti tehnikaalase rakenduskõrghariduse optimaalse mudeli ja selle rakendamise tegevuskava väljatöötamine”, SA Tartu Teaduspark, Haridus- ja Teadusministeerium.
- Võrk, A. & Paulus, A. (2006), “Eesti sotsiaaltoetuste ja maksude mõju inimeste tööjõupakkumise stiimulitele”, Sotsiaalministeerium. [[raport](#)]
- Annus, T., Kanep, H., Kraut, L., Kliimask, J., Noorkõiv, R., Paabut, A. & Paulus, A. (2005), “Üldhariduskoolide võrgu korraldamine”, Haridus- ja Teadusministeerium.

Projects (selected)

Academic research

- 2014 – 2017 Inequalities, Insurance, Incentives and Immigration: Challenges and Solutions for the Welfare State (4Is), funded by NORFACE.
- 2012 – 2016 Poverty Reduction in Europe: Social policy and innovation (ImPROvE), funded by the European Commission (FP7).
- 2011 – 2015 Employment 2025: How will multiple transitions affect the European labour market (NEUJOBS), funded by the European Commission (FP7).
- 2008 – 2011 Analysis of Life Chances in Europe (ALiCE), funded by the Economic and Social Research Council (ESRC).
- 2006 – 2009 Accurate Income Measurement for the Assessment of Public Policies (AIM-AP), funded by the European Commission (FP6).
- 2005 – 2006 Tax/benefit Policies and Growth Potential of the EU (TAXBEN), funded by the European Commission (FP6).

Policy research

- 2017 – 2018 Assessment of tax evasion based on consumption, wealth and income using EUROMOD, funded by the European Commission (JRC); *Principal Investigator*.

2015 – 2016	Assessment of tax evasion and tax non-compliance with the EUROMOD model in Estonia, funded by the European Commission (JRC); <i>Principal Investigator</i> .
2013 – 2016	Social Situation Monitor, funded by the European Commission (DG-EMPL).
2006 – 2008	European Observatory on the Social Situation and Demography (SSO), funded by the European Commission (DG-EMPL).
2006 – 2007	The effect of cash benefits targeted on families in alleviating poverty in Estonia, funded by the Estonian Ministry of Social Affairs.
2005 – 2006	The impact of the Estonian tax-benefit system on labour supply, funded by the Estonian Ministry of Social Affairs.
2004 – 2005	General education school network, funded by the Estonian Ministry of Education and Research.
2004	Funding principles of municipal schools, funded by the Estonian Ministry of Education and Research.

Research infrastructure

2019	A new indirect tax tool for EUROMOD, funded by the European Commission (JRC).
2018	Feasibility study on register-based EUROMOD input dataset for Estonia, funded by the Estonian Ministry of Finance; <i>Principal Investigator</i> .
2016 – 2019	EUROMODupdate3, funded by the European Commission (DG-EMPL).
2016	EUROMOD extension to indirect taxation, funded by the European Commission (JRC).
2012 – 2015	EUROMODupdate2, funded by the European Commission (DG-EMPL).
2009 – 2012	EUROMODupdate, funded by the European Commission (DG-EMPL).
2006 – 2008	Improving the Capacity and Usability of EUROMOD (I-CUE), funded by the European Commission (FP6).

Presentations at scientific conferences and workshops

2019	TARC-VUW workshop “Modelling tax policy and compliance”, University of Exeter EUROMOD Research Workshop, Milan InGRID2 workshop “The use of administrative and longitudinal data for distributional analysis”, University of Essex
2018	74th Annual Congress of the IIPF, Tampere
2017	BICEPS conference "Corruption, tax evasion and institutions", Riga 6 th World Congress of IMA, Turin SimDeco workshop, Luxembourg
2015	TARC 3 rd Annual Workshop, University of Exeter Shadow2015, University of Exeter 71 st Annual Congress of the IIPF, Dublin
2014	HMRC-ESRC International Tax Analysis Conference, London 4 th SEEK Conference, ZEW, Mannheim
2013	IZA Workshop on the Future of Labor, Bonn Recent Advances in the Economics of Income Distribution, Paris School of Economics 69 th Annual Congress of the International Institute of Public Finance (IIPF), Taormina
2012	European Meeting of IMA, Dublin 2 nd Microsimulation Research Workshop, Bucharest
2011	3 rd IMA Conference, Stockholm The Shadow Economy, Tax Evasion and Money Laundering (Shadow2011), Muenster EUROMOD Research Workshop, Riga

2010	ESRC seminar “Nordic and Baltic Economies: Problems and Prospects”, University College London 31 st International Association for Research in Income and Wealth (IARIW) Conference, St Gallen
2009	2 nd IMA Conference, Ottawa
2008	International Conference on Tax-Benefit Microsimulation in the Enlarged Europe, Vienna International Conference on Policy Modeling (EcoMod 2008), Berlin
2007	1 st International Microsimulation Association (IMA) Conference, Vienna 2 nd meeting of the Society for the Study of Economic Inequality (ECINEQ), Berlin
2004	5 th Annual Conference of Estonian Social Sciences, Tartu

External seminar and non-academic presentations

2019	European Commission (JRC)
2018	European Commission (JRC) Seminar on “Incentives and Inequality: A Microsimulation Approach”, Helsinki The EC’s Community of Practice on Fairness 3rd Workshop: “Income inequality and its policy determinants – beyond a MS level analysis”, Brussels Estonian Ministry of Finance
2017	User conference on European statistics “Small Estonia, big Europe – what do statistics show?”, Tallinn Bank of Estonia Tallinn University of Technology
2016	Institute for Economic Research, Ljubljana European Commission (DG-EMPL) Bank of Estonia
2015	World Bank DG EMPL conference “European Micro-simulation Modelling for Policymaking”, Brussels University of Antwerp Bank of Estonia
2013	Polish Ministry of Labor and Social Policy Tallinn University of Technology Bank of Estonia
2012	European Commission (DG-EMPL)
2011	University of Antwerp University of Tartu
2010	European Commission (DG-EMPL) University of Tartu
2009	Statistics Estonia
2008	Eurostat
2007	Estonian Ministry of Social Affairs
2005	Estonian Ministry of Education and Research University of Tartu Estonian Ministry of Finance
2004	Estonian Ministry of Education and Research

Refereeing

Baltic Journal of Economics, CESifo Economic Studies, Eastern Economic Journal, Economic Journal, Economic Modelling, Emerging Markets Finances and Trade, Empirica, Fiscal Studies, Habitat International, Hacienda Pública Española/ Review of Public Economics, International Journal of Microsimulation, International Review of Administrative Sciences, International Tax and Public Finance, Journal of Economic Behavior & Organization, Journal of Economic Inequality, Journal of Policy Analysis and Management, Journal of Tax Administration, Public Finance Review, Review of Income and Wealth, Social Science Computer Review.

Software

ALAN, an Estonian tax-benefit microsimulation model (Stata), jointly with A. Võrk.
EUROMOD, a tax-benefit microsimulation model for the EU countries (C++/EM): general development and country-modules (Estonia, Greece, Ireland, Lithuania, Slovenia etc).

Additional training (short graduate courses)

Non parametric and semi parametric methods, 45th Essex Summer School, Aug 2012,
University of Essex, UK.

Policy evaluation methods, Centre for Microdata Methods and Practice (CEMMAP), May
2011, London, UK.

Analysis of Limited Dependent Data, 43rd Essex Summer School, Aug 2010, University of
Essex, UK.

Multi-Country Tax-Benefit Microsimulation using EUROMOD, 39th Essex Summer
School, Aug 2006, University of Essex, UK.

New perspectives on the study of inequality, poverty and redistribution, 1st ECINEQ
Summer School, July 2006, Palma de Mallorca, Spain.

International Education Policy Studies, Fall 2004, Teachers College, Columbia University,
New York City, USA.

Uses of Overlapping Generations Models in Macroeconomics, Aug 2004, University of
Aarhus, Denmark.

Membership

American Economic Association (AEA), International Association for Research in Income
and Wealth (IARIW), International Microsimulation Association (IMA), International
Institute of Public Finance (IIPF)
