

# CURRICULUM VITAE

## MARIA KNOTH HUMLUM

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March 2024

### PERSONAL DETAILS

Born 1981 in Denmark

Married

Children: Carl (2016), Jonathan (2014) and Maya (2011)

### CURRENT PLACEMENT

*Associate Professor* at the Department of Economics and Business Economics, Aarhus University (since January 2013)

### AFFILIATIONS

Fellow at TrygFonden's Centre for Child Research, since May 2018

IZA Research Fellow, since April 2013

### ACADEMIC EXPERIENCE

August 2010 – December 2012

*Assistant Professor* at the Department of Economics and Business, Aarhus University

August 2009 – July 2010

*Postdoctoral researcher* at the School of Economics and Management, Aarhus University

February 2009 – July 2009

*Research fellow* at the Danish Institute of Governmental Research

March 2006 – January 2009

*PhD student* at the School of Economics and Management, Aarhus University

January 2005 – February 2006

*Research assistant* at the School of Economics and Management, Aarhus University

May 2004 – October 2004

*Research assistant* at the Economics Department, Aarhus School of Business

### TEACHING

Spring 2024, 2023, 2022, 2021, 2020, 2019, 2018, 2017

*Lecturer* in undergraduate Econometrics (QQLDV) at the Department of Economics and Business Economics, Aarhus University

Spring 2017, 2016, 2015, 2014, 2013, 2012

*Lecturer* in Microeconometrics at the Department of Economics and Business, Aarhus University

Fall 2018, 2015, 2014, 2013, 2012

*Lecturer* in Applied Microeconometrics at the Department of Economics and Business, Aarhus University

Fall 2010, 2009

*Lecturer* in undergraduate Microeconomics (MiMaSt) at the School of Economics and Management, Aarhus University

Spring 2007

*Teaching assistant* in undergraduate Microeconomics at the Department of Mathematical Sciences, Aarhus University

Fall 2004, 2003

*Teaching assistant* in undergraduate Mathematics at the School of Economics and Management, Aarhus University

## EDUCATION

May 2009

PhD in Economics and Management, Aarhus University

March 2006

MSc in Economics, Aarhus University

August 2003

BSc in Economics, Aarhus University

June 2000

High school graduation, math and science track, Aarhus Katedralskole

## TEACHING EDUCATION

2015

Course on supervision at Aarhus University

2013-2014

'Go Online', course on e-learning at Aarhus University

2011

Pedagogical training program for assistant professors (adjunktkursus) at Aarhus University

## VISITS ABROAD

January 2008 – June 2008

Visiting Scholar at the Economics Department, University of Pennsylvania

## GRANTS

2024-2027

Independent Research Fund Denmark, 3,167,424 DKK for the project “Characterizing Good Teachers and Student-Teacher Sorting”. Grant ID: 10.46540/3168-00014B.

2023-2026

Spar Nord Fonden, 2,196,804 DKK for the project “Vocational training, public policies, and firms’ role: Securing the future of marginalized youths”.

2019-2024

Independent Research Fund Denmark, 5,887,238 DDK for the project “The Economic and Behavioral Effects of the National HPV Vaccination Program in Denmark: Health Investments, Risky Behavior and Social Interactions of Youths and Their Families”. Grant no. 8106-00013B.

2018-2022

The Carlsberg Foundation, 279,000 DKK for research infrastructure for the project “Health Investments, Risky Behavior and Social Interactions of Youths and Their Families”. Grant no. CF17-0408.

2017-2019

Spar Nord Fonden, 400,000 DKK for the project “Effekter af undervisningstid på børns faglige præstationer og trivsel” (“Effects of instruction time on children’s academic performance and well-being”).

2013-2017

The Danish Ministry of Children and Education, 7,898,000 DKK for accompanying research to “Forsøgsprogram om modersmålsbaseret undervisning” (RCTs focusing on second-language learning) (PI: Michael Rosholm).

2010-2013

The Danish Council for Independent Research | Social Sciences, 1,655,712 DKK for the project “The Micro-Level Consequences of Capacity Constraints in College”. Grant no. 09-068698.

## HONORS AND AWARDS

2023, 2022

Nominee, “Den Gyldne Pegepind” for best lecturer (oecon, Aarhus University) in the academic years 2021/22 and 2022/23.

2016

Labour Economics Best Reviewer Award 2015 (1,000 EUR) and Certificate of Excellence in Reviewing

## JOURNAL ARTICLES

Humlum, M. K., Morthorst, M. O. and P. R. Thingholm. “Sibling Spillovers and the Choice to get Vaccinated: Evidence from a Regression Discontinuity Design”. *Journal of Health Economics* 94: 102843.

Andersen, S. C., Guul, T. S. and M. K. Humlum. 2022. “How First Language Instruction Transfers to Majority-Language Skills”. *Nature Human Behaviour* 6: 229-235.

Humlum, M. K. and M. Thorsager. 2021. “The Importance of Peer Quality for Completion of Higher Education”. *Economics of Education Review* 38.

- Humlum, M. K., Skipper, N., and P. R. Thingholm. 2021. "Vaccine Hesitancy and Differential Susceptibility to Media Coverage: A Critical Documentary Led to Substantial Reductions in Human Papillomavirus Vaccine Uptake in Denmark". *Medical Decision Making* 41(5): 550---558.
- Humlum, M. K., Nandrup, A. B., and N. Smith. 2019. "Closing or reproducing the gender gap? Parental transmission, social norms and education choice". *Journal of Population Economics* 32(2): 455—500.
- Beuchert, L. V., Humlum, M. K., Nielsen, H. S. and N. Smith. 2018. "The Short-Term Effects of School Consolidation on Student Achievement: Evidence of Disruption?". *Economics of Education Review* 65: 31—47.
- Humlum, M. K., Kristoffersen, J. H. G., and R. Vejlin. 2017. "College admissions decisions, educational outcomes, and family formation". *Labour Economics* 48: 215—230.
- Beuchert, L. V., Humlum, M. K., and R. Vejlin. 2016. "The Length of Maternity Leave and Family Health". *Labour Economics* 43 (Special issue on Health and the Labour Market): 55—71.
- Andersen, S. C., Humlum, M. K., and A. B. Nandrup. 2016. "Increasing instruction time in school does increase learning". *Proceedings of the National Academy of Science of the United States of America (PNAS)* 113(27): 7481—7484.
- Humlum, M. K. and N. Smith. 2015. "Long-Term Effects of School Size on Students' Outcomes". *Economics of Education Review* 45: 28—43.
- Dalsgaard, S., Humlum, M. K., Nielsen, H. S., and M. Simonsen. 2014. "Common Danish Standards in Prescribing Medication for Children and Adolescents with ADHD". *European Child & Adolescent Psychiatry* 23(9): 841—844.
- Humlum, M. K. and R. Vejlin. 2013. "The Responses of Youth to a Cash Transfer Conditional on Schooling: A Quasi-Experimental Study". *Journal of Applied Econometrics* 28(4): 628—649.
- Dalsgaard, S., Humlum, M. K., Nielsen, H. S., and M. Simonsen. 2012. "Relative Standards in ADHD Diagnoses: The Role of Specialist Behavior". *Economics Letters* 117(3): 663—665.
- Humlum, M. K., Kleinjans, K. J., and H. S. Nielsen. 2012. "An Economic Analysis of Identity and Career Choice". *Economic Inquiry* 50(1): 39—61.
- Humlum, M. K. 2011. "Timing of Family Income, Borrowing Constraints, and Child Achievement". *Journal of Population Economics* 24(3): 979—1004.
- Humlum, M. K. 2007. "Estimating the Effects of Delayed Entry into Higher Education: A Discussion". *Nationaløkonomisk Tidsskrift (Danish Economic Journal)* 145(3): 312—326.

#### MISCELLANEOUS PUBLICATIONS

- Bingley, P., Humlum, M. K., Kristensen, N. and R. Vejlin. 2023. "Gennemførelse af en erhvervsuddannelse - To effektmålinger". VIVE. Report prepared for the Danish Ministry of Children and Education.
- Humlum, M. K. and R. Vejlin. 2020. "Studiestøtte, studiearbejde og uddannelsesforløb på de gymnasiale uddannelser: En analyse af to reformer af SU-systemet". Report prepared for the Danish Ministry of Higher Education and Science.
- Andersen, S. C., Humlum, M. K. and T. S. Guul. 2017. "Modersmålsbaseret undervisning – Modersmålsundervisning på 1. klassetrin". TrygFondens Børneforskningscenter. Report prepared for the Danish Ministry of Education.
- Andersen, S. C. and Humlum, M. K. 2017. "Modersmålsbaseret undervisning – Gruppebaseret indsats på 4. klassetrin". TrygFondens Børneforskningscenter. Report prepared for the Danish Ministry of Education.

- Andersen, S. C., Humlum, M. K., Guul, T. S. and A. B. Nandrup. 2017. "Modersmålsbaseret undervisning – Rapport of klassebaserede indsatser". TrygFondens Børneforskningscenter. Report prepared for the Danish Ministry of Education.
- Humlum, M. K. and N. Smith. 2015. "The impact of school size and school consolidations on quality and equity in education". EENEE analytical report no. 24. Report prepared for the European Commission.
- Andersen, S. C., Humlum, M. K., and A. B. Nandrup. 2014. "Indledende analyser af forsøg med modersmålsbaseret undervisning". Report prepared for the Danish Ministry of Education.
- Humlum, M. K., and T. P. Jensen. 2010. "Frafald på de erhvervsfaglige uddannelser. Hvad karakteriserer de frafaldstruede unge?". *AKF working paper*, AKF.
- Humlum, M. K. 2009. *Essays on Human Capital Accumulation and Educational Choices*. PhD dissertation, School of Economics and Management, Aarhus University.

#### WORKING PAPERS AND WORK IN PROGRESS

- "Direct and Spillover Effects of Provider Vaccination Facilitation" (joint with J. B. Cullen, A. Suziedelyte and P. R. Thingholm). NBER Working Paper No. 30951.
- "Instruction Time, Information, and Student Achievement. Evidence from a Field Experiment" (joint with S. C. Andersen and T. S. Guul). HCEO Working Paper 2019-049. IZA Discussion Paper No. 12543.

#### COMMENTS AND BOOK REVIEWS

- Comments on Dansk Økonomi Efterår 2023, in: "Dansk Økonomi Efterår 2023", De Økonomiske Råd (The Economic Council).
- Andersen, S. C., Fallesen, P., Heinesen, E., Holm, M. L., Humlum, M., Landersø, R., Nandrup, A. B. and H. S. Nielsen. 2023. "Replik til Svend Kreiners notat 'Om statistiske analyser af resultater fra pædagogiske test'".
- Comments on Dansk Økonomi Forår 2023, in: "Dansk Økonomi Forår 2023", De Økonomiske Råd (The Economic Council).
- Comments on Dansk Økonomi Efterår 2022, in: "Dansk Økonomi Efterår 2022", De Økonomiske Råd (The Economic Council).
- Humlum, M. K. 2015. Book review of Christoffersen, H. and K. B. Larsen, 2015, *Den danske grundskole – økonomisk set* for Folkeskolen.dk.

#### DISSEMINATION

- Andersen, S. C., Guul, T. S, and M. K. Humlum. 2021. "Modersmålsundervisning kan styrke tosprogede elevers læsevner og trivsel", *Analyse, Politiken*, 23 October, 2021.
- Andersen, S. C. et al. 2019. "31 forskere. Drop kritikken af de nationale test", *Kronik, Politiken*, 14 May, 2019.
- Humlum, M. K. and N. Smith. 2015. *Does School Size Matter for School Quality?* EENEE Policy Brief 5/2015.
- Andersen, S. C., Beuchert-Pedersen, L. V., Humlum, M. K., and A. B. Nandrup. 2014. "Effekt. Flere timer styrker elevernes læsning", *Analyse, Politiken*, 10 April, 2014.
- Humlum, M. K. and H. S. Nielsen. 2009. "Mindre SU – mere studiarbejde", *AKF Nyt* no. 1 (March 2009).

#### PHD STUDENTS

- Kathrine Vixø (supervisor, 2024 – ongoing)

Marius Opstrup Morthorst (supervisor, 2020 - 2023)  
Trine Skriver Høholt Jensen (co-supervisor, 2019 - 2023)  
Mette Thorsager Jensen (co-supervisor, 2016 - 2019)  
Anne Brink Nandrup (co-supervisor, 2013 - 2016)  
Louise Voldby Beuchert-Pedersen (co-supervisor, 2013 - 2016)

#### ACADEMIC PRESENTATIONS

2024

Family and Education Workshop (FEW), Málaga; TrygFonden's Centre for Child Research anniversary, Aarhus.

2023

EALE conference, Prague.

2022

2<sup>nd</sup> Meeting on Quantitative Educational Research in Denmark, Odense.

2021

Meeting on Quantitative Educational Research in Denmark, Vejle fjord; Counterfactual Methods for Policy Impact Evaluation (COMPIE) 2021, online.

2018

TrygFonden's Centre for Child Research Skolekonference, Aarhus; 9<sup>th</sup> IWAAEE, Catanzaro; 5<sup>th</sup> SDU workshop on Applied Microeconometrics, Odense

2017

ENSAI workshop, Rennes; National Agency for IT and Learning, Aarhus

2015

Conference on Field experiments in labor economics and social policies, Paris; Workshop on Health and the Labour Market, Ebeltoft

2014

AU Workshop on the well-being of children and youth, Aarhus

2013

25<sup>th</sup> EALE conference (poster), Torino; Family Economics Workshop, Honningsvåg; 4<sup>th</sup> IWAAEE, Catanzaro; 27<sup>th</sup> ESPE conference, Aarhus; Workshop on Economics of Successful Children, Aarhus

2012

Brownbag Lunch Workshop at Aarhus University, Aarhus; 26<sup>th</sup> ESPE conference, Bern

2011

Workshop on Empirical Analysis of Family Economics, Ebeltoft

2010

EPRU, University of Copenhagen, Copenhagen; 3<sup>rd</sup> International Conference EALE/SOLE 2010, London

2009

Danish Microeconomic Network Meeting, Copenhagen; 23<sup>rd</sup> ESPE conference, Seville; SFI workshop on Applied Microeconomics and Program Evaluation, Copenhagen

2008

Danish Institute of Governmental Research, Copenhagen; Microeconometrics Lunch Workshop at Aarhus University, Aarhus; DGPE 2008 workshop, Kollokole

2007

DGPE 2007 workshop, Hotel Ebeltoft Strand; EALE conference, Oslo; Economics Seminar Series at Aarhus University, Aarhus; Danish Institute of Governmental Research, Copenhagen; PISA workshop at Aarhus School of Business, Aarhus

2006

DGPE 2006 workshop, Sandbjerg Gods; PISA workshop at Aarhus University, Aarhus

\*=scheduled

## OTHER PROFESSIONAL ACTIVITIES

### Editorial service

Associate Editor, *Empirical Economics*, 2021 -

### Reviewer

American Journal of Health Economics, Danish Economic Journal, Danish Institute of Governmental Research, Eastern Economic Journal, Economics Letters, Economics of Education Review, Educational Policy, Education Economics, Elsevier, *Empirica*, *Empirical Economics*, European Economic Review, IZA Journal of Labor Economics, IZA World of Labor, Journal of Applied Econometrics, Journal of Development Economics, Journal of Family and Economic Issues, Journal of Population Economics, Journal of Public Economics, Labour Economics, Learning and Individual Differences, Oxford Bulletin of Economics and Statistics, Oxford Economic Papers, Quarterly Journal of Economics, Rockwool Foundation Research Unit, *Samfundøkonomen*, Scandinavian Journal of Economics, Scandinavian Journal of Public Health, Southern Economic Journal, VIVE – The Danish Centre of Applied Social Science, World Development.

### Grant application reviewer

Academy of Finland Research Council for Culture and Society; European Research Council; The Dutch Programme Council for Practice Oriented Scientific Education Research; National Science Centre, Poland; Portugal's Foundation of Science and Technology (FCT); Social Science and Humanities Research Council of Canada.

### Internal chair, PhD committee

Søren Albeck Nielsen, Aarhus University, 2022; Peter Rønø Thingholm, Aarhus University, 2019.

### External member of PhD committee

Dieudonné Tamfutu Mushi, University of Southern Denmark, 2024; Anne Sophie Lassen, Copenhagen Business School, 2022; Ninja Ritter Klejnstrup, University of Copenhagen, 2019; Marie Kruse Skibsted, Copenhagen Business School, 2016.

### External member of assessment committee

VIVE – The Danish Centre of Applied Social Science, senior researcher position, 2024; University of Southern Denmark, associate professor position, 2021; VIVE – The Danish Centre of Applied Social Science, researcher positions, 2021.

### Member of government committees and councils

Member of the committee for “Strengthened research on vulnerable children and youths” (2023) within Independent Research Fund Denmark (DFF), 2023.

Expert member of the Danish Economic Council (særligt sagkyndigt medlem), 2022 – 2025.

Member of the state educational grants committee (SU-ekspertudvalg), Ministry of Higher Education and Science, 2019-2020.

#### Management experience

Head of collective research project “The Economic and Behavioral Effects of the National HPV Vaccination Program in Denmark: Health Investments, Risky Behavior and Social Interactions of Youths and Their Families”, 2018-2024.

Project leader of “Forsøgsprogram om modersmålsbaseret undervisning”, 2013-2017 (joint with Simon Calmar Andersen)

#### Other activities

Analysis of graduates at the Department of Economics and Business Economics, 2023 -

Member of AU BSS Task force for “Research Data Management, Open Access og Ansvarlig Forskningspraksis mv.”, May 2022 – July 2022

Member of Danish Research Data for Social Sciences (DRDS) steering group, March 2019 – December 2023

Member of researcher working group for matched educational data at Statistics Denmark, January 2019 – December 2023

Member of AU BSS Information security committee (FISU), December 2018 -

ECONAU VIP data manager, June 2018 –

ECONAU steering group member, June 2018 –

Member of Danish Research Data for Social Sciences (DRDS) working group on Matched Educational Data, January 2018 – December 2023

#### Workshop etc. organization

Copenhagen Education Network (CEN) workshop, Aarhus University, May 2023

PhD Course, DGPE, Causal Inference without Experiments, lecturer: Gordon B. Dahl, November 2018

Labour and Public Policy Section Retreat, Sophiendahl, 2018 (joint with N. Datta Gupta and B. Schulz)

Workshop on Economics of Successful Children: Families and Schools, Aarhus University, 2013 (joint with H. S. Nielsen)

Workshop on Empirical Analysis of Family Economics, Ebeltoft, 2011 (joint with H. S. Nielsen and A. W. Rasmussen)

#### Seminar organization

Labour and Public Policy Seminar Series, Department of Economics and Business Economics, Aarhus University, Fall 2018 – Spring 2019

Brownbag Lunch Workshop Seminar Series, School of Economics and Management, Aarhus University, Spring 2011 (joint with J. Nafziger)