

CV – Helle Ørsted Nielsen

Senior Researcher, Aarhus University

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Education

2007 PhD, Department of Political Science, Aarhus University

1995 MSc Political Science, Aarhus University

1989 BA Journalism and Mass Communication, University of North Carolina at Chapel Hill, USA

Visiting scholar

2003 Duke University, USA

Research posts

2012- Senior researcher, Department of Environmental Science *and* Department of Political Science, Aarhus University. Affiliated with iClimate, AUs Interdisciplinary Center for Climate Change

2007-2011 Researcher, the National Environmental Research Institute at Aarhus University.

2008-2011 Adjunct lecturer in public administration and public policy, Department of Political Science, AU

2002-2006 Ph.D.-scholar, Department of Political Science, Aarhus University and Department of Policy Analysis, the National Environmental Research Institute.

Main research activities

Policy-related research in the fields of climate, energy and climate adaptation policy, agro-environmental policy, and water policy. My core research interests in these fields are: behaviour of policy target groups, evaluation of policy effectiveness and policy instruments. Implementation of EU policy at national and local levels.

Select research projects:

- *Solnor*. Out of the Shade? Solar development Challenges in Norway. 2023-2027. Norwegian Research Council. Responsible for case study on Danish solar PV policy.
- *U-can* – Ukraine towards Carbon Neutrality. 2024-2028. EU Horizon Missions, CSA.
- *RESIST* - Regions for climate change resilience through Innovation, Science and Technology. 2023-2027. EU Horizon Missions, IA. Coordinator AU research on governance.
- *Land-CRAFT* - Center for Landscape Research in Sustainable Agricultural Futures. 2023-2027. Danish Ministry of Higher Education and multiple foundations. PhD and post doc supervisor.
- *Access* - Advancing Coordination Of Future Low-Carbon Energy Grid Development In Cities. 2019-2023 Interreg project. European Development Fund. Co-ordinator for Aarhus University research team.
- *Greenmix* – Green growth policy mixes. Renewable energy policies in the Nordic countries. 2020-2021. Nordforsk & Nordic Innovation. Work package leader.
- *Evaluation of the Danish Pesticide Tax*. 2015-2019. Pesticide research programme, Danish EPA. Project leader.
- *Go4Baltic* – Coherent policies and governance of the Baltic Sea Ecosystems. 2015-2018. Joint Baltic Sea research and development program (Bonus). Co-coordinator for multiple-country survey.
- Target Group Strategies in interaction with public agencies. 2014-2019). Danish Research Councils. Work package leader.
- *SUSTrans*: enabling and governing transitions to a low-carbon society. Strategic Research Council. 2010-2014.

International network

Broad network of international research contacts due to participation in 30+ international research projects, including multiple EU-funded projects, international review responsibilities, co-authorships and a research stay at Duke University. Thus, I have collaborated with researchers from +50 European and North American institutions.

Other academic responsibilities (selected)

- iClimate – interdisciplinary centre for climate research. Member of core group
- Reviewer Formas – the Swedish research council on sustainable development
- Member of the Danish EPAs Advisory Committee on Pesticide Research, since 2019
- Member of the scientific advisory board (videnkomiteen) C2C Climate Challenge, 2020-2022

Teaching and supervision

- Bachelor and master level courses in climate and environmental policy, public administration and policy evaluation in the Dept. of Political Science
- PhD supervision in Dept. of Environmental Science and Dept. of Political Science
- Master thesis supervision in Dept. of Political Science

Publications

Peer-reviewed articles

- Bonfert, B., Nielsen, H. Ø., & Pedersen, A. B. (2024). Taking first steps so that others can run – functions and limitations of governing the local energy transition. *Journal of Environmental Policy & Planning*, 1–15.
- Nielsen, V. L., & Nielsen, H. Ø. (2024). Perceived burdens of interacting with public authorities: How does it influence citizens' state-encounter behavior? *International Journal of Social Welfare*, 1–22. <https://doi.org/10.1111/ijsw.12663>
- Nielsen, H. Ø., Konrad, M.T.H., Pedersen, A.B., Gyldenkerne, S. (2023). Ex-post evaluation of the Danish pesticide tax: A novel and effective tax design. *Land Use Policy*, vol. 126. 12 p. Online print: doi.org/10.1016/j.landusepol.2023.106549
- Nielsen, H.Ø. and Nielsen, V.L. (2023), Different encounter behaviors: Businesses in encounters with regulatory agencies. *Regulation & Governance*. Vol. 17, no1: 61-82. doi.org/10.1111/rego.12455
- Lepenies, R., Büttner, L., Bärlund, I., Jax, K., Lyytimäki, J., Pedersen, A.B., Nielsen, H.Ø., Mosoni, C., Mille, R., Payen, G., Richard, D., 2023. The politics of national SDG indicator systems: a comparison of four European countries. *Ambio* 52, 743-756. <https://doi.org/10.1007/s13280-022-01809-w>
- Jensen, A., Nielsen, H.Ø., & Russel, D.J. (accepted). Diffusion of climate policy integration in adaptation strategies: translating the EU mandate into UK and Danish national contexts. *Regional Environmental Change*. DOI: 10.1007/s10113-023-02110-6
- Hasler, B., Termansen, M., Nielsen, H Ø, Daugbjerg, C., Wunder, S. and Latacz-Lohmann, U. (2022). European Agri-environmental policy: Evolution, Effectiveness and Challenges. *Review of Environmental Economics and Policy* . 16:1, 105-125.
- Andersen, M.S., Christensen, L.D., Donner-Amnell, J., Eikeland, P.O., Hedeler, B., Hildingsson, R., Johansson, B., Khan, J., Kronsell, A., Inderberg, T.H.J., Nielsen, H.Ø., Pizzol, M., Sairinen, R., Skjærseth, J.B., Söderholm, P., Teräväinen, T. and Thomsen, M. (2022), To facilitate a fair bioeconomy transition, stronger regional-level linkages are needed. *Biofpr*, 16: 929-941. <https://doi.org/10.1002/bbb.2363>
- Nielsen, H Ø & Pedersen, A.B. (2021). Biogas at the intersection of agricultural, environment and energy governance: (potentially) conflicting interests and consistent policy framework? *Journal of Environmental Policy & Planning*, DOI: 10.1080/1523908X.2021.2009333
- Nielsen, V.L., Nielsen, H.Ø. & Bisgaard, M. (2021). Citizens Reactions to Bureaucratic Encounters. Different Ways of Coping with Public Authorities. *Journal of Public Administration Research and Theory*, vol. 31, issue 2: 381-398.
- Liefferink, D., Graversgaard, M., Nielsen, H.Ø., Boezeman, D., Crabbé, A., Wiering, M., Kaufmann, M. 2021. How Hercules cleans up the Augean stables: differentiated implementation of the EU Water Framework Directive. *Water Policy* 1, 23 (4): 1000–1016.
- Zandersen, M., Oddershede, J. S., Pedersen, A. B., Nielsen, H. Ø., & Termansen, M. 2021. Nature Based Solutions for Climate Adaptation - Paying Farmers for Flood Control. *Ecological Economics*, 179(106705), [106705]. <https://doi.org/10.1016/j.ecolecon.2020.106705>
- Jensen, A., Nielsen, H.Ø., Russel, D.J. 2020. Climate Policy in a Fragmented World—Transformative Governance Interactions at Multiple Levels. *Sustainability* 2020, 12(23), 17; <https://doi.org/10.3390/su122310017>
- Pedersen, A. B., Nielsen, H. Ø., & Daugbjerg, C. 2020. Environmental policy mixes and target group heterogeneity: analysing Danish farmers' responses to the pesticide taxes. *Journal of Environmental Policy and Planning*, 22(5), 608-619. <https://doi.org/10.1080/1523908X.2020.1806047>
- Nielsen, H.Ø. & Pedersen, A.B. 2020. Landmænd er da økonomisk rationelle – eller? *Danske landmænds respons på pesticidafgifter*. Institut for Statskundskab. *Politica*. Årgang 52, 2: 104-124.
- Russel, D.; Castellari, S.; Capriolo, A.; Dessai, S.; Hildén, M.; Jensen, A.; Karali, E.; Mäkinen, K.; Nielsen, H.Ø.; Weiland, S.; den Uyl, R.; Tröltzsch, J.(2020). Policy Coordination for National Climate Change Adaptation in Europe: All Process, but Little Power. *Sustainability* 2020, 12, 5393. <https://doi.org/10.3390/su12135393>
- Hasler, B.; Czajkowskij, M.; Eloffsson, K. Hansen, L. B. Konrad, M., Nielsen, H.Ø. ; Niskanen, O., Nömann, T., Pedersen, A.B.,Peterson, K., Poltimäe, H., Svensson, T.H., Zagörska, K. 2019. Farmers' preferences for nutrient and climate-related agri-environmental schemes : A cross-country comparison. *Ambio*. 2019 ; Bind 48, Nr. 11. s. 1290-1303.
- Pedersen, A.B., Nielsen, H Ø, Christensen, T., Ørum J E. 2019. Are independent agricultural advisors more oriented towards recommending reduced pesticide use than supplier-affiliated advisors? *Journal of Environmental Management*. Bind 242, 07.2019, s. 507-514

- Konrad, M. T. H., Nielsen, H.Ø., Pedersen, A. B. Elofsson, K. 2019. Drivers of farmers' investments in nutrient abatement technologies in five Baltic Sea countries. *Ecological Economics*. Vol. 159: 91-100.
- Williams, J. H., Balsby, T.J.S., Nielsen, H.Ø., Asferg, T., Madsen, J., 2019. Managing geese with recreational hunters?. *Ambio* 48(3), 217-229
- Nielsen, V.L., Nielsen, H.Ø. At bygge en mur eller en bro : borgernes adfærd i mødet med det offentlige. I: *Politica - Tidsskrift for politisk videnskab*. 2018 ; Bind 50, Nr. 3. s. 287-307.
- Woods, B., Nielsen, H.O., Pedersen, A.B., Kristofersson, D.M., 2017, Farmer Perceptions of Climate Change and Likely Responses in Danish Agriculture, *Land Use Policy* 65, pp.109-120.
- Andersen, M. S. & Nielsen, H. Ø. (2017). Denmark: Small state with big voice and bigger dilemmas. In *Still Taking a Lead? The European Union in International Climate Change Politics*. Wurzel, R., Connelly, J. & Liefferink, D. (red.). Routledge, s. 83-97 (Routledge/UACES Contemporary European Studies).
- Toke, David and Helle Ø. Nielsen (2015) Policy Consultation and Political Styles: Renewable energy consultations in the UK and Denmark. *British Politics*, vol. 10: 453-474.
- Malawska, A, Topping, C., and Nielsen, H. Ø., 2014. Why do we need to integrate farmer decision making and wildlife models for policy evaluation?" *Land Use Policy*, vol. 38, pp. 732-740
- Nielsen, H.Ø., Frederiksen, P., Rytönen, A., Pedersen, A.B., Saarikoski, H. 2013. "Beyond fit vs. interplay: how different institutional arrangements affect integrated river basin management. Evidence from countries around the Baltic Sea. *Land Use Policy*, vol. 30, issue 1, 437-445.
- Jensen, A., van Bommel, S., Pedersen, A. B., Nielsen, H. Ø. & Kuindersma, W. 2013 | Framing Climate Change: new directions in Dutch and Danish planning strategies. *Planning Theory & Practice*. 14, 2, s. 233-247
- Nielsen, H.Ø. and Pedersen, A.B. (2013). Hvordan kan staten fremme innovation, der fører til bæredygtige energisystemer? Forskellige teoretiske approaches [English title: How government can promote innovations towards sustainable energy systems: a review of theoretical approaches]. *Politica*, 45, Nr. 3: 323-343.
- Pedersen, A.B., Nielsen, H.Ø., Christensen, T., Hasler, B., 2012, Optimising the effect of policy instruments: A study of farmers' decision rationales and how they match the incentives in Danish pesticide policy. *Journal of Environmental Planning and Management* 55:8, p. 1094-1110
- Christensen, T., Pedersen, A.B., Nielsen, H.Ø. & Hasler, B. 2011. Determinants of farmers' willingness to participate in subsidy schemes for pesticide-free buffer zones. *Ecological Economics*, volume 70, issue 8: 1558-1564. BFI 1
- Nielsen, H.Ø., Pedersen, A. B.; Christensen, T. 2009. "Environmentally Sustainable Agriculture and Future Developments of the CAP". *Journal of European Integration*, 31, 369-87.

Books -peer reviewed

- Skjærseth, J.b., Hansen, T., Donner-Amnell, J., Hanson, J., Inderberg, T.H. J., Nielsen, H. Ø. Nygaard, B., & Steen Markus (2023). *Wind Power Policies and Diffusion in the Nordic Countries. Comparative Patterns*. 167 p. Cham, Switzerland: Palgrave
- Nielsen, Helle Ørsted (2010). *Bounded Rationality in Decision Making. How Cognitive shortcuts and professional values may interfere with market-based regulation*. Manchester University Press. 246 pp.

Book chapters – peer reviewed

- Jakobsen, M., & Nielsen, H. Ø. (2024). Forvaltningens samspil med borgere og virksomheder. I *Offentlig forvaltning: et politologisk perspektiv* (3 udg., s. 373-402). Hans Reitzels Forlag.
- Nielsen, H. Ø. (2022). Climate Change and Sustainable Development Governance. Pp. 30-47 in Russel, D. & Kirsop-Taylor, N. (eds). *Handbook on the Governance of Sustainable Development*. Edward Elgar.
- Pedersen, A.B., Nielsen, H.Ø., 2017, Designing effective pesticide policies: Experiences from Danish pesticide regulation 1986-2015, in Coll, M & Wajnberg, E., *Environmental Pest Management – Challenges for Agronomists, Ecologists, Economists and Policymakers*, pp.299-324.
- Pedersen, A. B., & Nielsen, H. Ø. (2014). Green taxes in Scandinavia: do they contribute to (in)equality? I T. Fitzpatrick (red.), *International Handbook on Social Policy and the Environment* (s. 152-175). Edward Elgar Publishing. <https://doi.org/10.4337/9780857936134.00012>
- Nielsen, Helle Ø. (2013). "Bounded Rationality in an Imperfect World of Regulations: What If Individuals are Not Optimizing" in Milne, J., Andersen, M.S. (red.) *Handbook of Research on Environmental Taxation*, Edward Elgar Publishing.
- Linstead, C., Nielsen, H. Ø., Maltby, E., Horlitz, T., Koundouri, P., Birol, E., Remoundou, K., Janssen, R., & Jones, P. J. (2010). Tools for better decision-making: Bridges from Science to Policy. I D. M. Kernan, P. R. W. Batterbee, & P. B. R. Moss (red.), *Climate Change Impacts on Freshwater Ecosystems* (s. 262-284). Blackwell Publishing.
- Nielsen, H. Ø., Pedersen, A. B., & Christensen, T. (2009). Environmentally sustainable agriculture and future developments of the CAP. I G. Skogstad, & A. Verdun (red.), *The Common Agricultural Policy: Policy Dynamics in a Changing Context* (s. 92-110). Routledge Worlds.

Other

Nielsen, H. O. (2024). Kommunerne har meldt sig ind i klimapolitikken. *Administrativ Debat*, 2024(1), 12-15.

Scientific reports

- Nielsen, H. O., & Pedersen, A. B. (2023). Gudenåpartnerskabet - En analyse af samarbejde om klimatilpasning på tværs af organisatoriske grænser. Aarhus University, DCE - Danish Centre for Environment and Energy. Videnskabelig rapport fra DCE - Nationalt Center for Miljø og Energi Nr. 549 <https://dce2.au.dk/pub/SR549.pdf>
- Bonfert, B., Nielsen, H. O., & Pedersen, A. B. (2023). Local energy systems: Governance analysis. Interreg North Sea Region. <https://leadinglocalenergy.systems/wp-content/uploads/2023/05/ACCESS-Governance-Report.pdf>
- Petersen, L. K., & Nielsen, H. O. (2023). Solar panels and household energy prosumption – experiences, practices and attitudes. Aarhus University, DCE - Danish Centre for Environment and Energy. Scientific Report from DCE - Danish Centre for Environment and Energy Bind 555 https://dce.au.dk/fileadmin/dce.au.dk/Udgivelser/Videnskabelige_rapporter_500-599/SR555.pdf
- Nielsen, H. Ø., Pedersen, A. B., Konrad, M., & Gyldenkærne, S. (2020). Evaluering af den omlagte pesticidafgift: betydningen af beslutningsadfærd for pesticidanvendelsen. Miljøstyrelsen. Bekæmpelsesmiddelforskning fra Miljøstyrelsen Nr. 134 <https://www2.mst.dk/Udgiv/publikationer/2019/10/978-87-7038-116-1.pdf>
- Pedersen, A. B., & Nielsen, H. Ø. (2021). Landmænds oplevelse af barrierer og muligheder for præcisionsteknologi til ukrudtsbekæmpelse: baseret på interviews om konkret RoboWeedMaPS-teknologi. Aarhus University, DCE - Danish Centre for Environment and Energy. Videnskabelig rapport fra DCE - Nationalt Center for Miljø og Energi Nr. 436 <http://dce2.au.dk/pub/SR436.pdf>
- Campos, I., Ng, K., Clemmensen, A. H., Penha-Lopes, G., Jeuken, A., Chiabai, A., Iglesias, A., Pedersen, A. B., Vizinho, A., Jensen, A., Rytönen, A.-M., Bedsted, B., Mazzetti, C., Russel, D., Lorencova, E., Schasfoort, F., Alves, F. M., Martinez, G., Sanderson, H., ... Harmackova, Z. (2016). Adapting to Climate Change: Comparison of Case Studies: Deliverable D.5.5 (grant agreement 308337). <http://base-adaptation.eu/sites/default/files/D.5.5.pdf>
- Jensen, A., Nielsen, H. Ø., & Nielsen, M. L. (2016). Climate adaption in local governance: Institutional barriers in Danish municipalities. Aarhus University, DCE - Danish Centre for Environment and Energy.
- Rendon, O., Gebhardt, O., Pedersen, A. B., Breil, M., Campos, I., Chiabai, A., den Uyl, R. M., Foudi, S., Garrotte, L., Harmackova, Z., Clemmensen, A. H., Haugvaldstad, A., Higgins, S., Hjerpe, T., Hubatová, M., Huttunen, I., Huttunen, M., Iglesias, A., Iglesias, P., ... Zandvoort, M. (2016). Implementation of climate change adaptation: Barriers and opportunities to adaptation in case studies: Deliverable 5.4 (grant agreement no. 308337). http://base-adaptation.eu/sites/default/files/5.4_BASE_report_web.pdf
- Meyer, V., Gebhardt, O., Alves, F. M., Capriolo, A., Jeuken, A., Troeltzsch, J., Harmackova, Z., Lorencová, E. K., Vackar, D., Louckova, B., hubatova, M., Clemmensen, A. H., Haugvaldstad, A., Jensen, A., Rytönen, A.-M., Mäenpää, M., Veijalainen, N., Vento, T., Hjerpe, T., ... Russel, D. (2015). Economic evaluation of adaptation options: Deliverable D5.2. http://base-adaptation.eu/sites/default/files/Deliverable_5_2_FINAL.pdf
- Riemann, B. (red.), Carstensen, J., Markager, S., Olsen, B. E., Dahl, K., Hansen, J. W., Hasler, B., Zandersen, M., Nielsen, H. Ø., Gislason, H., & Støttrup, J. (2015). Status og muligheder for det danske hav. Aarhus University, DCE - Danish Centre for Environment and Energy. http://veluxfoundations.dk/sites/default/files/status_og_muligheder_for_det_danske_hav.pdf
- Pedersen, A. B., Nielsen, H. Ø., Christensen, T., Martinsen, L., & Ørum, J. E. (2014). Konsulenters rådgivning om bekæmpelsesmidler - muligheder og barrierer for at reducere forbruget. Miljøministeriet, Miljøstyrelsen. Bekæmpelsesmiddelforskning fra Miljøstyrelsen Bind 2014 Nr.157 <http://www2.mst.dk/Udgiv/publikationer/2014/02/978-87-93178-16-8.pdf>
- Hildén, M., Boteler, B., Capriolo, A., Castellari, S., Giordano, F., Jensen, A., Karali, E., McGlade, K., Mäkinen, K., Nielsen, H. Ø., Pedersen, A. B., Russel, D., & Weiland, S. (2013). Policy integration and knowledge use in the EU adaptation strategy: Deliverable 2.1 (Grant agreement 308337). the European Community. http://base-adaptation.eu/sites/default/files/Deliverable_2_1.pdf
- Nielsen, H. Ø., Pedersen, A. B., Frederiksen, P., & Larsen, L. E. (2011). Analysing River Basin Management Plans and Processes: Case study Denmark – Zealand River Basin District.
- Pedersen, A. B., Christensen, T., Nielsen, H. Ø., & Hasler, B. (2011). Barrierer i landmændenes beslutningsmønstre vedrørende ændret pesticidanvendelse. Miljøstyrelsen. Bekæmpelsesmiddelforskning fra Miljøstyrelsen Nr. 134 <http://www.mst.dk/Publikationer/Publikationer/2011/11/978-87-92779-18-2.html>
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