



Interdisciplinary Centre on Population Dynamics (CPop)

Annual Report 2019

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Contents

1 Mission, Goals, Research and Teaching Initiatives	5
1.1 Mission and Goals.....	5
1.2 Research, Teaching, and Outreach Initiatives	7
1.2.1 Research	7
1.2.2 Teaching	8
1.2.3 Outreach.....	9
1.3 Organization and governance structure.....	10
2 Research output.....	13
2.1 CPop Research in Figures.....	13
2.2 Publication Highlights	15
2.3 List of All Peer-Reviewed Publications	19
2.3.1 Journal articles	19
2.3.2 Contribution to journal - Letter.....	25
2.3.3 Contribution to journal - Literature review, comment/ debate	25
2.3.4 Ph.D. thesis.....	26
2.3.5 Chapter in Book/ Encyclopaedia	26
3 Teaching.....	29
3.1 European Doctoral School of Demography	29
3.2 Talent Programme ‘Radical Rethink!’	29
3.3 PhD students and graduates	29
3.4 Teaching and supervision overview	30
4 Awards.....	33
5 Outreach	35
5.1 Research outreach through (social) media	35
5.2 Applied Research in Conservation Demography.....	36
5.3 Press and Media presence.....	37
6 Sustainable Development Goals	39
7 People.....	43
8 Budget & Fundraising	45
8.1 CPop budget overview.....	45
8.2 Fundraising: External grants of CPop Affiliates	47

9 Annexes	51
Annex 1: Press and Media Presence	51
Annex 2: Research seminars and their speakers in 2019	60

1 Mission, Goals, Research and Teaching Initiatives

1.1 Mission and Goals

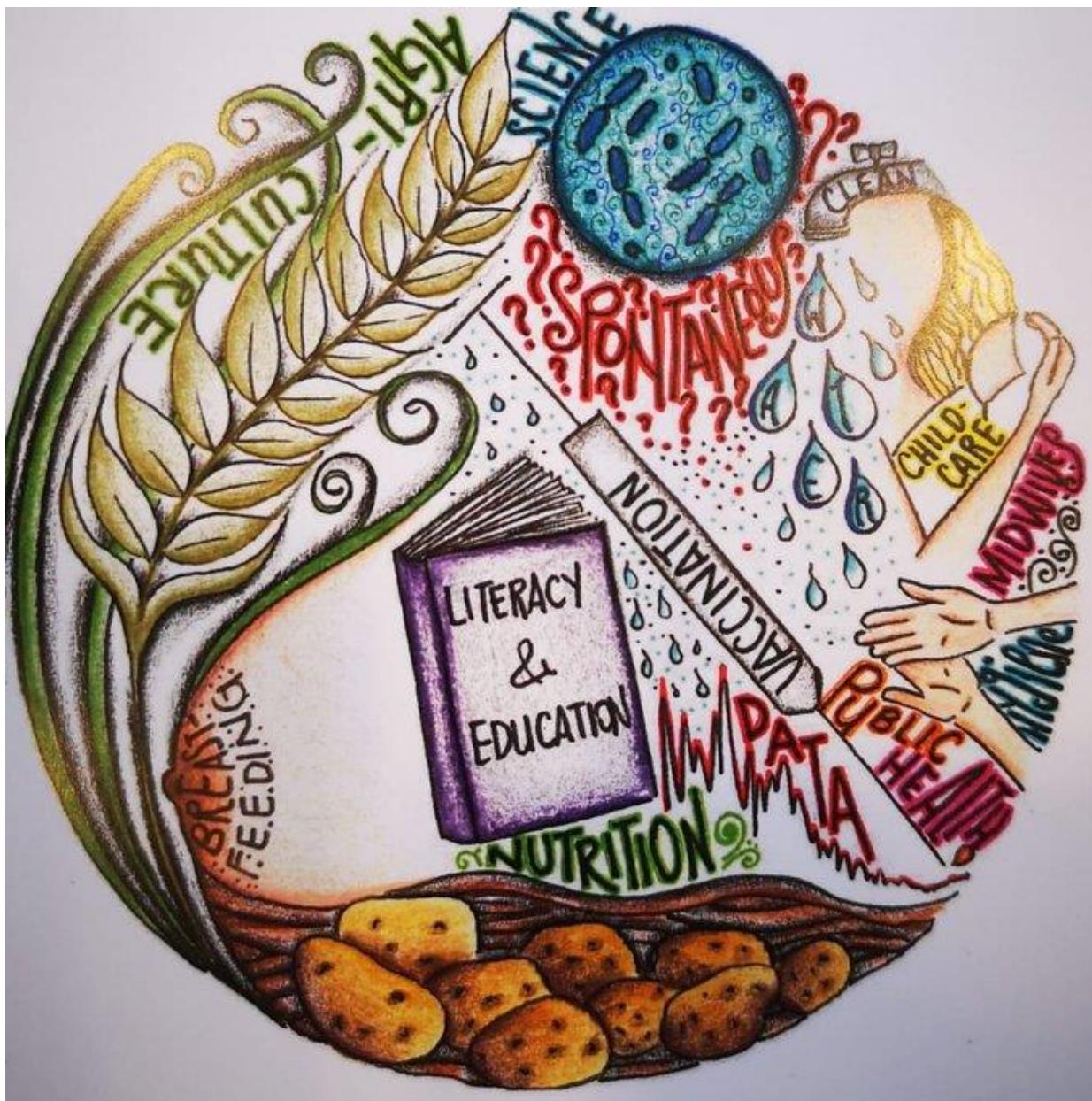
The purpose of SDU's Interdisciplinary Centre on Population Dynamics (CPop) is to advance interdisciplinary research that furthers understanding of the demographic, social, economic, health, and cultural consequences of population change, especially population aging in human and non-human populations and their policy implications. These implications are highly relevant for ageing societies, including Denmark but also internationally, and for conservation of non-human endangered species. About sixty of CPop core and affiliated researchers across four SDU faculties are building on their expertise spanning from mathematics, biology, epidemiology, demography, economics, political science and humanities and conduct insightful, cross-disciplinary research.

Specifically, the **goals** of CPOP are:

1. To publish ground-breaking, interdisciplinary research in widely read journals with extensive press coverage, leading to widespread citations, international awards and prestigious external grants.
2. To create unique interdisciplinary educational activities that will develop the talent of our students and educate them about the causes and consequences of longer, healthier lives.
3. To create direct value for society by becoming a paradigm of how university programs can reach out to the public with applied and relevant research on, e.g., forecasting population dynamics, thereby shaping the future of our society.
4. To look beyond our borders and strengthen SDU's internationalization efforts.

CPop is a SDU's Strategic Initiative with researchers affiliated to four of its five faculties, namely to faculties of Health (HEALTH), Humanities (HUM), Social Sciences (SAM) and Natural Sciences (NAT). A core unit of researchers in demography (Kernel) is nested at SAM. It succeeds the former MaxO Center that was evaluated in 2017 as the world's top research program on the biological and biomedical demography of aging. Building on this foundation, CPop expands into a truly multidisciplinary virtual institute with substantive participation of four SDU faculties and a multi-faceted research agenda that addresses the consequences of the rapidly on-coming demographic changes.

After a transition period that saw its formal establishment, CPop started to operate officially from September 2018.



Possible causes of mortality decline in the past, by CPop affiliate Catalina Torres.

1.2 Research, Teaching, and Outreach Initiatives

1.2.1 Research

CPop scientists conduct innovative theoretical and empirical research spanning a broad range of topics linked to population ageing. Interdisciplinary areas include formal demography and mortality forecasting, biodemography and conservation demography, lifespan and health inequalities, relations of welfare state and ageing population, causes and consequences of longer and healthier lives and why some individuals are left behind, as well as literary perceptions of ageing.

CPop develops several interdisciplinary research initiatives, five major ones are described below. These all involve at least two faculties and research collaboration with international partners.

Initiative 1: Further develops the highly successful MaxO research on the **evolutionary demography of aging**, with a focus on analyses of the distribution of lifespans for humans and across other species and with increased emphasis on conservation demography of endangered species. This research is led by researchers in NAT working with researchers in HEALTH and Kernel and in close collaboration with international partners such as the Primate Life Histories Working Group (multiple universities), with the Department of Zoology at the University of Oxford, with the Laboratoire de Biometrie et Biologie Evolutive, CNRS, Convention of International Trade in Endangered Species of Wild Fauna and Flora (CITES), and the International Union for Conservation of Nature (IUCN), as well as Stockholm University, Uppsala University and University of Oslo, Species 360 and Conservation Science Alliance.

Initiative 2: Spans research on the causes, consequences and dynamics of health, treatment, **well-being and survival at ages above 90**, with emphasis on centenarians. Continued progress in increasing life expectancy and improving health will increasingly depend on trends after age 90 and in the longer run after age 100. Hence it is crucial to study the health, treatment, well-being and survival of the rapidly growing numbers of those 90+. This can be done in Denmark better than in any other country because of the extensive and highly accurate data available. This research is led by researchers in HEALTH collaborating with researchers in NAT, SAM and HUM and with international partner institutions.

Initiative 3: Expands research using data from SHARE and other sources, including cultural artifacts, on the **dynamics of health at ages 50-90**. Some of this research further develops productive current research on male-female differences in health and survival.

Initiative 4: Develops further applied research that focuses on **forecasting the dynamics of population aging** in Denmark. CPop has developed considerable strength in developing more powerful methods of forecasting life expectancy and other aspects of population change. We propose expansion and development of this research to include applied research focused on Denmark—and with possible application to other countries as well. Current population forecasts for Denmark are based on weak, outdated methods, and greater attention should

be given to the policy implications of the changing structure of the Danish population. Kernel will take lead on this initiative.

Initiative 5: The generational profile, changing demographic patterns, and the relationship between generations are important structural features of modern societies shaped by and affecting public policies and individual life choices. The consequences are not distributed equally across social class, gender and ethnic groups. This leaves a fundamental question: **How do policy interventions and individual life choices interact with demographic change?**

Trying to answer this societally relevant question, the initiative 5 involves four broad themes: 1) Policy interventions in a life-cycle perspective (especially family policy, human capital policy, old age policies such as care and pensions). This includes both policy design, policy evaluation and developing policy recommendations. 2) Intergenerational relations, transmissions, and interactions. This includes both generational conflicts as well as the social and economic dynamics of inter-generational transfers. 3) Political demography, globally and holistically. This includes comparative studies on how demographic change influences political and public policy processes and how this in turn leads to feedback effects, as well as comprehensive, interdisciplinary research on the lived lives of the old and very old in rich societies. 4) Historical and ongoing patterns behind the health and wealth of individuals and nations. It is well researched that as the economy of a country improves, so does the health of its citizens. What is less understood is whether the opposite is also true – improving national health may result in economic growth and improved wealth through a variety of channels, e.g. there will be more people able to conduct effective activities in the work force. The main research ambitions are to understand the causes and consequences of longer and healthier lives and why some individuals are left behind. This initiative involves research from SAM and all other CPop units.

1.2.2 Teaching

An important goal of CPop is to develop unique, innovative, **interdisciplinary educational activities** to educate students about the causes and consequences of longer, healthier lives and other topics related to population dynamics, including population forecasting and understanding of the consequences and policy implications of population change. This goal is achieved through a number of different educational activities including:

1. New cross-disciplinary elements, courses and profiles that will be developed in existing programs of study for bachelor's and master's students who are interested in getting a broad perspective on the dynamics of population aging.
2. Development and implementation of SDU Talent Program in aging.
3. Continued contribution to the European Doctoral School of Demography (EDSD).

Read more about our teaching activities in Chapter 3.

1.2.3 Outreach

CPop aspires to create significant value for society through close and continued **interaction with relevant stakeholders** (including policy makers and policy analysts, leaders of non-governmental organizations, journalists and students) at many different levels and in many different forms to communicate findings and to receive feedback.

A diverse portfolio of **outreach activities** have been going on in 2019:

1. Applied research on forecasting population dynamics of longer, healthier lives and development of models of forecasting and policy analysis that can be used to provide better information on trends in Denmark and internationally. The impact of population change is so great for Danish society—and for the Danish government, pension organizations, insurance firms, financial institutions, and businesses more specifically—that use of more powerful methods of forecasting would be highly beneficial. Read more in section 5.1.
2. Applied research on conservation of endangered species: together with Species 360 and its Conservation Science Alliance CPop researchers analyze population data from the zoos and aquariums to deliver missing information critical to assessing species life histories. They provide analytical tools and data for better calibration of conservation efforts for endangered species.
3. Policy analyses of the social, economic and health consequences and policy implications of changing population dynamics in Denmark and internationally, e.g., the implications for age at retirement or for redistributing work.
4. Extensive media presence (see Section 5.3).

1.3 Organization and governance structure

The Interdisciplinary Centre on Population Dynamics (CPop) builds on the collaboration and close interaction between researchers from five research units across four faculties of SDU. In 2018, CPop grew on the success of its predecessor Max Planck Odense Center on the Biodemography of Ageing (MaxO) and expanded from focusing on biodemography into a unique four-faculty virtual institute. As such, CPop reports to the Vice Chancellor of SDU. The five CPop units are:

The CPop Demographic unit (CPop Kernel) advances basic and applied research in demography of survival, longevity, population ageing and methods for mortality forecasting.

The CPop Science unit (CPop NAT) focuses on research of demography of animals and plants, conservation demography and advancement of mathematical and computational methods.

The CPop Business and Social Sciences unit (CPop SAM) focuses on research on consequences of ageing and longevity for public health and on the interplay between demographics, politics and policies.

The CPop Health Sciences unit (CPop HEALTH) advances research in epidemiology, biostatistics and biodemography of ageing.

The CPop Humanities unit (CPop HUM) focuses on studying cultural implications of ageing.

CPop affiliates are members of units within SDU faculties and their departments. A CPop Kernel unit is an independent unit not belonging to any department. It is formally nested at the Faculty of Business and Social Sciences and it has been established to 1) support integrity and coherence of CPop, 2) offer demographic expertise on population dynamics essential for fulfillment of the mission of the center, 3) provide managerial support via the Chief Academic Officer to all parts of CPop, (in particularly to the CPop Director, tbd), and 4) coordinate the research, applied research, teaching and outreach activities of the virtual four-faculty institute. As such, Kernel serves all four faculties and carries out excellent interdisciplinary research.

Governance structure

Until June 2019, CPop Governance structure included CPop Director, Internal Scientific Committee and External Scientific Committee (Advisory Board) with the following members:

CPop Director: James Vaupel

Internal Scientific Committee: James Vaupel

Annette Baudisch (CPop Deputy Director)

Rune Lindahl Jacobsen (Head of CPop HEALTH Unit)

Peter Simonsen (Head of CPop HUM Unit)

Donald Canfield (Head of CPop NAT Unit)
Christian Møller Dahl (Head of CPop SAM Unit)

Internal Scientific Committee holds monthly executive meetings.

External Scientific Committee:

The External Scientific Committee will be responsible for the recurrent evaluations of CPOP and serve as advisory in the hiring process of the new CPop director and other key CPop personnel. Members to the Committee were nominated in December 2018 and approved by the Vice-Chancellor. Its members are:

- Axel Börsch-Supan - Director of the Max Planck Institute for Social Law and Social Policy in Munich
- Arne Tausen - Director of the Max Planck Institute for Evolutionary Biology in Plön;
- Kenneth Wachter, University of California Berkeley - member of the U.S. National Academy of Sciences and former Chair of the External Scientific Committee of the Max Planck Institute of Demographic Research.
- Jane Falkingham - University of Southampton, Dean of the Faculty of Social, Human and Mathematical Sciences, Director of the U.K. Centre on Population Change, President of the European Association for Population Studies,
- Deborah Roach - Professor of Biology at the University of Virginia Charlottesville, past President of the Evolutionary Demography Society, co-author of a book in press about Biodemography.
- Søren Fiig Jarner, Vice President - Quantitative Research at ATP Denmark.
- Torben M. Andersen - Professor at the Department of Economics and Business Economics, Aarhus University.

In June 2019 SDU Vice Chancellor Henrik Dam appointed a Steering Board with five members representing each CPop unit to lead CPop collectively with Rune Lindahl-Jacobsen as chair and Vice Chancellor as manager. In September 2019, Vice Chancellor appointed the Dean of SAM Jens Ringsmose to take over the role of an executive manager of CPop. The governance structure of CPop is expected to change following a nomination of a new CPop Director (ongoing search in 2019).

As of December 2019 the CPop Steering Board has the following members:

Rune Lindahl Jacobsen (Chair, Head of CPop HEALTH Unit)

Annette Baudisch (CPop Kernel Unit)
Peter Simonsen (Head of CPop HUM Unit)
Donald Canfield (Head of CPop NAT Unit)
Christian Møller Dahl (Co-Head of CPop SAM Unit)
Klaus Petersen (Co-Head of CPop SAM Unit)

2 Research output

2.1 CPop Research in Figures

In 2019, the main research focus was on advancing methods in biodemography across the tree of life, contribution to conservation demography of endangered species, studying the longevity and survival of oldest old, analysing inequalities in health and survival in large-scale, longitudinal studies, further development of methods for more accurate mortality forecasting and its policy applications, intergenerational solidarity and transfers and exploring cultural roots and perceptions of ageing and dementia.

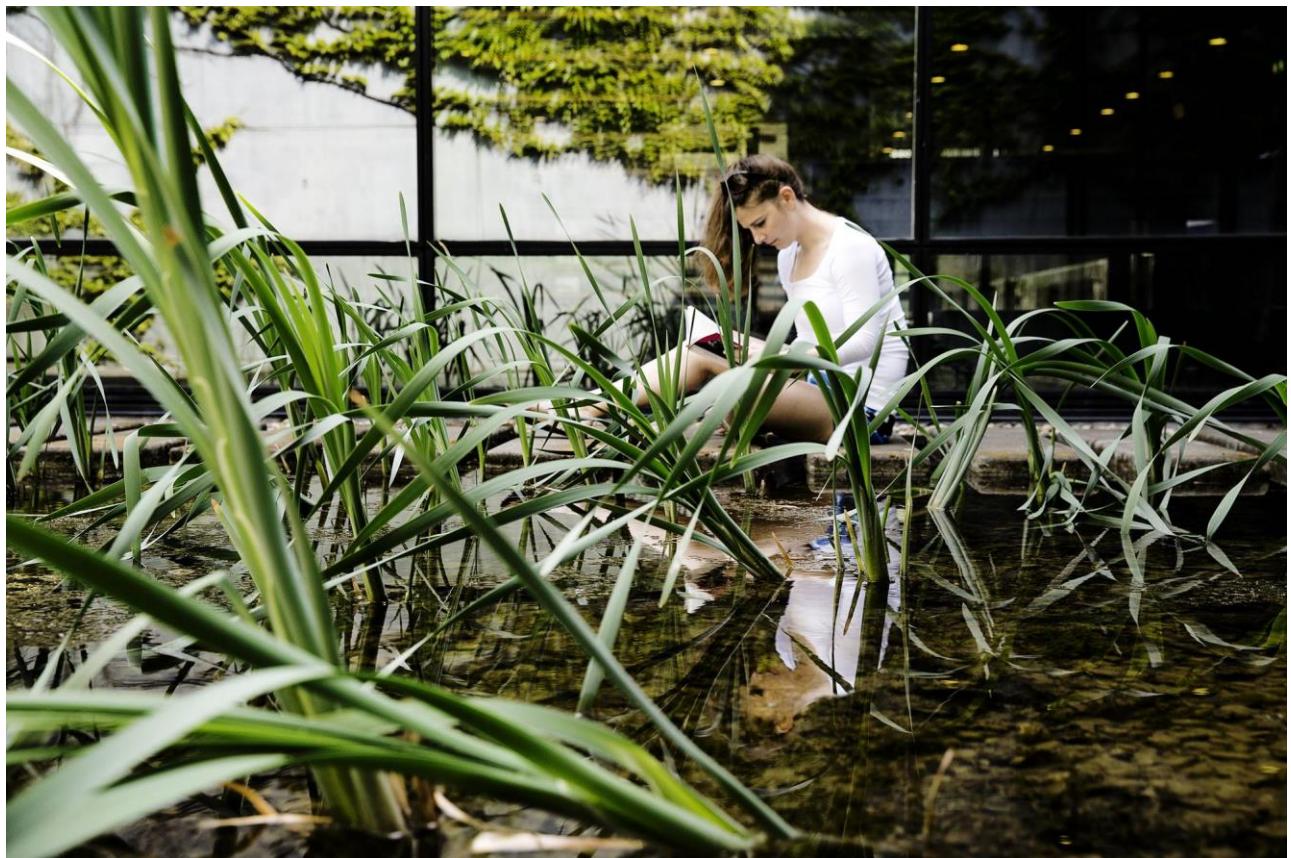
The number of CPop affiliates increased between 2018 and 2019 from 38 to 54. The main reason was increased engagement of CPop SAM unit that welcomed more researchers both from the Department of Business and Economics and the Department of Political Science as affiliates to the CPop project.

Researchers (as of December 1, 2019)	2019
Research staff – Total	54
– Funded by CPop (partially or fully, UK 10)	19
– Funded by external grants (partially or fully, UK 95)	12
– Funded by other SDU resources (UK 10)	26
Professors	11
Associate Professors	14
Assistant Professors and Post-Docs	13
PhD Fellows	9
Research Assistants	7

Publications, peer-reviewed	2019
Journal article	65
Other contribution to journal – Letter/ Review/ Comment/ Debate	5
PhD Thesis	2
Chapter in Book/Encyclopedia	19

Research events	2019
CPop Research seminars presentations	27
Visiting lecturers/ researchers	14

For a list of CPop Research Seminars presenters see Annex 2.



2.2 Publication Highlights

It is hard to choose just a few highlights from nearly one hundred peer-reviewed publications produced by CPop researchers in 2019. Publications highlighted below exemplify academic excellence, crossdisciplinarity and successful collaboration of CPop researchers.

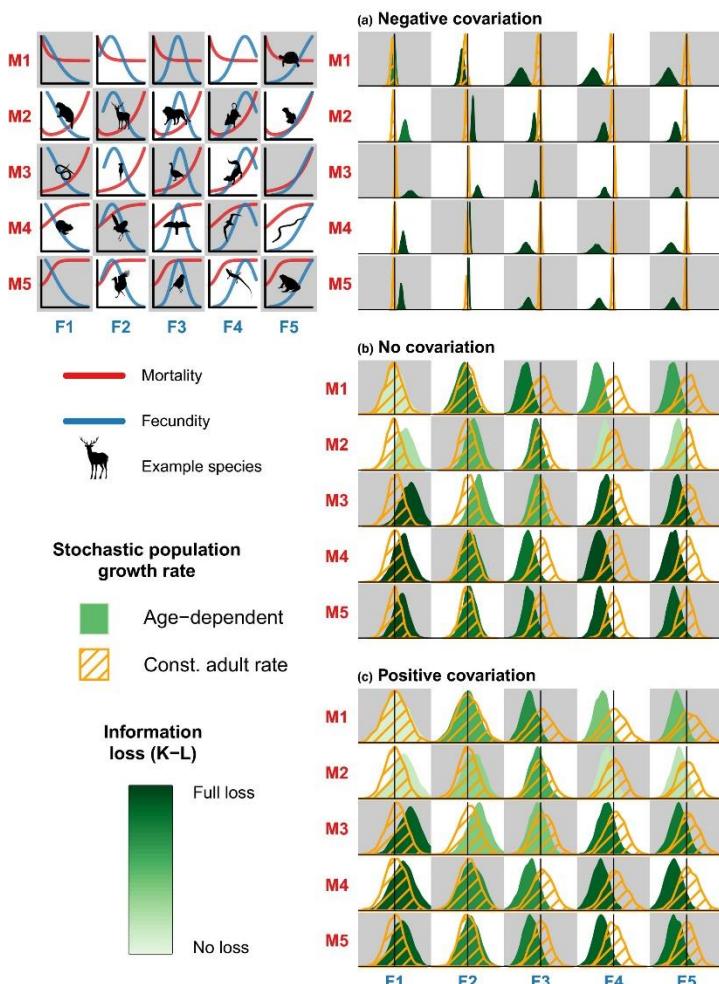
Conde, D. A., Staerk, J., Colchero, F., da Silva, R., Schöley, J., Baden, H. M., Jouvet, L., Fa, J. E., Syed, H., Jongejans, E., Meiri, S., Gaillard, J-M., Chamberlain, S., Wilcken, J., Jones, O. R., Dahlgren, J. P., Steiner, U. K., Bland, L. M., Gomez-Mestre, I., ...Baudisch, A., Vaupel, J. W. (2019). Data gaps and opportunities for comparative and conservation biology. *Proceedings of the National Academy of Sciences of the United States of America*, 116(19), 9658–9664. <https://doi.org/10.1073/pnas.1816367116>

Significance: Given the current species extinction rates, evidence-based policies to conserve at-risk species are urgently needed. Ultimately, the extinction of a species is determined by birth and death rates, which drive populations to increase or decline. Therefore, demographic data are essential to inform species conservation policies or to develop extinction risk assessments. Demographic information provides an indispensable bedrock for insights to tackle species sustainable management and deepens understanding of ecological and evolutionary processes. We develop a Demographic Species Knowledge Index that classifies the demographic information for 32,144 tetrapod species. We found comprehensive information on birth and survival for only 1.3% (613) of the species, and show the major potential of zoos and aquariums to significantly increase our demographic knowledge.

Abstract: Biodiversity loss is a major challenge. Over the past century, the average rate of vertebrate extinction has been about 100-fold higher than the estimated background rate and population declines continue to increase globally. Birth and death rates determine the pace of population increase or decline, thus driving the expansion or extinction of a species. Design of species conservation policies hence depends on demographic data (e.g., for extinction risk assessments or estimation of harvesting quotas). However, an overview of the accessible data, even for better known taxa, is lacking. Here, we present the Demographic Species Knowledge Index, which classifies the available information for 32,144 (97%) of extant described mammals, birds, reptiles, and amphibians. We show that only 1.3% of the tetrapod species have comprehensive information on birth and death rates. We found no demographic measures, not even crude ones such as maximum life span or typical litter/clutch size, for 65% of threatened tetrapods. More field studies are needed; however, some progress can be made by digitalizing existing knowledge, by imputing data from related species with similar life histories, and by using information from captive populations. We show that data from zoos and aquariums in the Species360 network can significantly improve knowledge for an almost eightfold gain. Assessing the landscape of limited demographic knowledge is essential to prioritize ways to fill data gaps. Such information is urgently needed to implement management strategies to conserve at-risk taxa and to discover new unifying concepts and evolutionary relationships across thousands of tetrapod species.

Colchero, F., Jones, O. R., Conde, D. A., Hodgson, D., Zajitschek, F., Schmidt, B. R., Malo, A. F., Alberts, S. C., Becker, P. H., Bouwhuis, S., Bronikowski, A. M., De Vleeschouwer, K. M., Delahay, R. J., Dummermuth, S., Fernández-Duque, E., Frisenvaenge, J., Hesselsøe, M., Larson, S., Lemaître, J-F., ... Gaillard, J-M. (2019). The diversity of population responses to environmental change. *Ecology Letters*, 22(2), 342-353. <https://doi.org/10.1111/ele.13195>

Abstract: The current extinction and climate change crises pressure us to predict population dynamics with ever-greater accuracy. Although predictions rest on the well-advanced theory of age-structured populations, two key issues remain poorly explored. Specifically, how the age-dependency in demographic rates and the year-to-year interactions between survival and fecundity affect stochastic population growth rates. We use inference, simulations and mathematical derivations to explore how environmental perturbations determine population growth rates for populations with different age-specific demographic rates and when ages are reduced to stages. We find that stage- vs. age-based models can produce markedly divergent stochastic population growth rates. The differences are most pronounced when there are survival-fecundity-trade-offs, which reduce the variance in the population growth rate. Finally, the expected value and variance of the stochastic growth rates of populations with different age-specific demographic rates can diverge to the extent that, while some populations may thrive, others will inevitably go extinct.



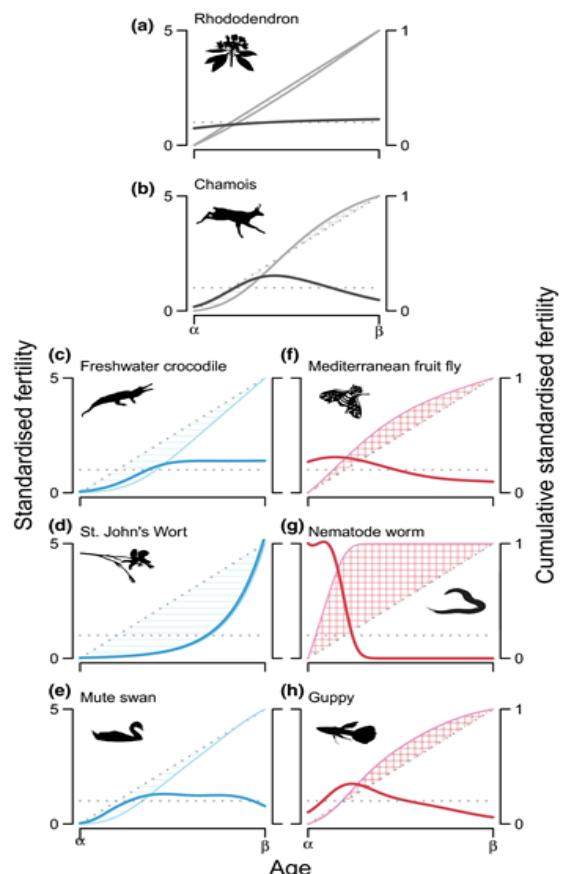
Densities of the average population growth rates and derived by using the fully age-dependent and the one-adult-stage models, respectively. We modelled three scenarios: (a) negative yearly covariation between survival and fecundity (i.e. a trade-off) as a function of environmental shocks; (b) no covariation between demographic rates; and (c) positive covariation between survival and fecundity. The tones of green on the density of correspond to the level of Kullback–Leibler (K–L) information loss when predicting the density of with. The first panel on the left shows the 25 combinations of age-specific mortality and fecundity tested. The silhouettes in each panel indicate species for which the trends in mortality and fecundity can roughly be described by the trajectories in the matching plot. These are only for reference purposes and are not intended as an accurate depiction of the species' demographic rates.

Baudisch, A., & Stott, I. (2019). A pace and shape perspective on fertility. *Methods in Ecology and Evolution*, 10(11), 1941-1951. <https://doi.org/10.1111/2041-210X.13289>

Abstract: Ageing is ubiquitous to all organisms, but ageing does not always mean senescence. Counter to most evolutionary theories of ageing, the patterns of mortality and reproduction may remain unchanged or improve with age, as well as deteriorate. Describing this diversity presents a challenge to eco-evolutionary demography. The pace–shape framework of mortality tackled this challenge to qualify and quantify orthogonal components of ageing patterns in mortality. Here, we extend this framework to fertility. Analogous to the logic of the mortality framework, we define a perspective, a framework and novel methods for the pace and shape of fertility. These distinguish between orthogonal components of time-scale (pace) and distribution (shape) of reproduction over adult life span.

Our pace and shape framework mirrors that of mortality, through a shift of perspective from the mother giving birth, to the offspring being born. Our new measures overcome many problems associated with measuring natural fertility trajectories, have both a clear biological and mathematical interpretation, can be intuitively visualized and satisfy and extend important conditions of the pace–shape paradigm. A comprehensive framework of fertility pace–shape facilitates ecological and evolutionary research addressing interactions and trade-offs between components of birth and death patterns, across the whole tree of life. The burgeoning emergence of large comparative demographic data sources opens the door to comparative analyses of ageing which were never possible before.

Empirical examples of diverse reproductive strategies in nature, corresponding loosely to the theoretical examples. Thick lines represent $m(x)$ functions and thin lines represent $B(x)$ functions. Dotted lines represent benchmark cases of constant reproduction (standardized fertility = 1) and its cumulative counterpart. Shading represents shape value, with positive areas above the $B(x)$ curve and negative areas below. (a) Rhododendron maximum; (b) Rupicapra rupicapra; (c) Crocodylus johnsoni; (d) Hypericum cumulicola; (e) Cygnus olor; (f) Ceratitis capitata; (g) Caenorhabditis elegans; (h) Poecilia reticulata. Corresponding shape, pace, α and β values for each species are shown in Table . Reproductive strategies range from negative senescence (panels c, d, e) through negligible senescence (panels a, b) to senescence (panels f, g, h)



Medford, A., Christensen, K., Skytthe, A., & Vaupel, J. W. (2019). A Cohort Comparison of Lifespan After Age 100 in Denmark and Sweden: Are Only the Oldest Getting Older? *Demography*, 56(2), 665-677. <https://doi.org/10.1007/s13524-018-0755-7>

Abstract: How long can we live? What is the plasticity of human lifespan? Questions asked by researchers and laymen alike. New research by Anthony Medford and co-authors published in renowned demographic journal brings mixed evidence from their study of centenarians of Denmark and Sweden. Although in Denmark the study of the oldest-old from cohorts born between 1870 and 1904 show further increase in survival, there is no evidence of similar trends from culturally close Sweden. The authors hypothesize that different models for the provision of elder care; different levels of resource allocation to this care and differences in health between the centenarian populations of the two countries contribute to the divergent trends. These findings are important because they demonstrate that it may be possible to lengthen lifespans as observed amongst the Danish centenarians. Further studies are needed to disentangle the underlying factors and crack the mystery of longevity.



2.3 List of All Peer-Reviewed Publications

2.3.1 Journal articles

Baudisch, A., & Stott, I. (2019). A pace and shape perspective on fertility. *Methods in Ecology and Evolution*, 10(11), 1941-1951. <https://doi.org/10.1111/2041-210X.13289>

Colchero, F., Jones, O. R., Conde, D. A., Hodgson, D., Zajitschek, F., Schmidt, B. R., Malo, A. F., Alberts, S. C., Becker, P. H., Bouwhuis, S., Bronikowski, A. M., De Vleeschouwer, K. M., Delahay, R. J., Dummermuth, S., Fernández-Duque, E., Frisenvaenge, J., Hesselsøe, M., Larson, S., Lemaître, J-F., ... Gaillard, J-M. (2019). The diversity of population responses to environmental change. *Ecology Letters*, 22(2), 342-353. <https://doi.org/10.1111/ele.13195>

Conde, D. A., Staerk, J., Colchero, F., da Silva, R., Schöley, J., Baden, H. M., Jouvet, L., Fa, J. E., Syed, H., Jongejans, E., Meiri, S., Gaillard, J-M., Chamberlain, S., Wilcken, J., Jones, O. R., Dahlgren, J. P., Steiner, U. K., Bland, L. M., Gomez-Mestre, I., ... Vaupel, J. W. (2019). Data gaps and opportunities for comparative and conservation biology. *Proceedings of the National Academy of Sciences of the United States of America*, 116(19), 9658–9664. <https://doi.org/10.1073/pnas.1816367116>

Medford, A., Christensen, K., Skytthe, A., & **Vaupel, J. W.** (2019). A Cohort Comparison of Lifespan After Age 100 in Denmark and Sweden: Are Only the Oldest Getting Older? *Demography*, 56(2), 665-677. <https://doi.org/10.1007/s13524-018-0755-7>

Medford, A., & Vaupel, J. W. (2019). Human lifespan records are not remarkable but their durations are. *PLOS ONE*, 14(3), [e0212345]. <https://doi.org/10.1371/journal.pone.0212345>

Medford, A., & Vaupel, J. W. (2019). An introduction to gevistic regression mortality models. *Scandinavian Actuarial Journal*, 2019(7), 604-620. <https://doi.org/10.1080/03461238.2019.1586756>

Torres, C., Canudas-Romo, V., & **Oeppen, J.** (2019). The contribution of urbanization to changes in life expectancy in Scotland, 1861–1910. *Population Studies*, 73(3), 387-404. <https://doi.org/10.1080/00324728.2018.1549746>

Kashnitsky, I., & Aburto, J. M. (2019). Geofaceting: Aligning small-multiples for regions in a spatially meaningful way. *Demographic Research*, 41, 477-490. [17]. <https://doi.org/10.4054/DemRes.2019.41.17>

Aburto, J. M., Alvarez, J-A., Villavicencio, F., & Vaupel, J. W. (2019). The threshold age of the lifetable entropy. *Demographic Research*, 41, 83-102. [4]. <https://doi.org/10.4054/DemRes.2019.41.4>

Bergeron Boucher, M-P., Kjærgaard, S., Oeppen, J., & Vaupel, J. W. (2019). The impact of the choice of life table statistics when forecasting mortality. *Demographic Research*, 41, 1235-1268. [43]. <https://doi.org/10.4054/DemRes.2019.41.43>

Deelen, J., Evans, D. S., Arking, D. E., Tesi, N., Nygaard, M., Liu, X., Wojczynski, M. K., Biggs, M. L., van der Spek, A., Atzman, G., Ware, E. B., Sarnowski, C., Smith, A. V., Seppälä, I., Cordell, H. J., Dose, J., Amin, N., Arnold, A. M., Ayers, K. L., ... **Vaupel, J.**.... Murabito, J. M. (2019). A meta-analysis of genome-wide association studies identifies multiple longevity genes. *Nature Communications*, 10(1), [3669]. <https://doi.org/10.1038/s41467-019-11558-2>

Steiner, U. K., Lenart, A., Ni, M., Chen, P., Song, X., Taddei, F., **Vaupel, J. W.**, & Lindner, A. B. (2019). Two stochastic processes shape diverse senescence patterns in a single-cell organism. *Evolution*, 73(4), 847-857. <https://doi.org/10.1111/evo.13708>

Bergeron Boucher, M-P., Oeppen, J., Holm, N. V., Nielsen, H. M., Lindahl-Jacobsen, R., & Wensink, M. J. (2019). Understanding differences in cancer survival between populations: A new approach and application to breast cancer survival differentials between Danish regions. *International Journal of Environmental Research and Public Health*, 16(17), [3093]. <https://doi.org/10.3390/ijerph16173093>

Kjærgaard, S., Ergemen, Y. E., Kallestrup-Lamb, M., **Oeppen, J., & Lindahl-Jacobsen, R.** (2019). Forecasting causes of death by using compositional data analysis: the case of cancer deaths. *Journal of the Royal Statistical Society, Series C (Applied Statistics)*, 68(5), 1351-1370. <https://doi.org/10.1111/rssc.12357>

Aburto, J. M., & Beltrán-Sánchez, H. (2019). Upsurge of Homicides and Its Impact on Life Expectancy and Life Span Inequality in Mexico, 2005–2015. *American Journal of Public Health*, 109(3), 483-489. <https://doi.org/10.2105/AJPH.2018.304878>

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Source: SDU PURE database, extracted on July 20, 2020.



3 Teaching

3.1 European Doctoral School of Demography

CPop was hosting for the second year international [European Doctoral School of Demography](#) in collaboration with Max Planck Institute for Demographic Research and several European universities. The mission is to provide new doctoral students at European universities with an opportunity to pursue advanced research in demography—and hence to help educate the next generation of demographers. By contributing lecturers for the program and funding for the students, the EDSD consortium of European demography institutes and departments enables EDSD to present advanced courses to a cohort of doctoral students who benefit from studying together and from getting a deep understanding of demographic research. In the academic year 2018/19 SDU was hosting 15 students of 10 different nationalities. Teaching was provided by CPop researchers and 15 visiting lecturers from European, US, and Australian Universities.

In the academic year 2019/2020 EDSD is hosted by the Centre for Population Studies of Autonomous University in Barcelona. CPop is fully supporting scholarships of three promising students during the eleven months course inn Rostock and Barcelona. Some of them may become future CPop PhD students. CPop Kernel unit members are also this year contributing lectures to the program.

3.2 Talent Programme ‘Radical Rethink!’

CPop researcher Annette Baudisch initiated and developed together with other CPop researchers a brand new SDU Talent Programme “**Radical Rethink! The Future of Aging Societies**”. Radical Rethink! is a one-year extra-curricular talent programme for ambitious and forward-looking students who wish to integrate their unique abilities within interdisciplinary talent teams. Student teams are challenged to create new ideas that breach boundaries and paradigms to approach solutions of burning issues in aging societies of the 21st century. Radical Rethink! saw its first student cohort in 2019 with innovative interdisciplinary teaching program contributed by lecturers from across SDU faculties, including CPop affiliates Annette Baudisch, Peter Simonsen, Pieter Vanhuysse, James Vaupel, and Rune Lindahl-Jacobsen.

[Read more about Radical Rethink!](#)

3.3 PhD students and graduates

Educating a new generation of researchers is an important part of CPop mission. In 2019, thirteen CPop affiliates were enrolled in a PhD program out of which six submitted their PhD

thesis in 2019. Two have already successfully defended their thesis and the remaining four await their defense in early 2020.

CPop PhD graduates of 2019:

Anthony Medford

With his thesis *Models for Extreme Longevity*. SDU Odense.

Main supervisor: James Vaupel.

Ana Rita da Silva

With her thesis *Demographic data analyses enhance biodiversity conservation and sustainable international trade in fish, corals, turtles and tortoises*, SDU Odense.

Main supervisor: Dalia Amor Conde.

3.4 Teaching and supervision overview

CPop core and affiliated researchers were engaged in the below teaching and supervision in all four faculties in 2019.

Note: List of courses taught by CPop affiliates in 2019 was extracted from PURE on July 21, 2020. May not reflect the full range of courses taught by CPop affiliates as individual researchers are responsible for updating their teaching in PURE.

Radical Rethink! The Future of Ageing Societies

Annette Baudisch, Pieter Vanhuyse, Paolo Caserotti, Peter Simonsen & Christian Nøhr
26/08/2019 → 30/06/2020

Data visualization with R

Ilya Kashnitsky
28/01/2019 → 29/01/2019

Research Tools

Ilya Kashnitsky
18/03/2019 → 20/03/2019

European Doctoral School of Demography

Jesus-Adrian Alvarez
10/01/2019 → ...

Advanced Usage of "R" in Biomedical Science

Ulrich Halekoh, Jacob v. B. Hjelmborg, Birgit Debrabant, Signe Bedsted Clemmensen, Martin Dalgaard Villumsen & James Oeppen
28/05/2019 → 29/05/2019

Decomposition Techniques in Health Research

José Manuel Aburto
13/05/2019 → 17/07/2019

IAST501 Individual Project in Statistics

Fernando Colchero
05/02/2019 → 01/06/2019

BAMM501: Bachelor Project in Applied Mathematics

Fernando Colchero
01/02/2019 → 01/06/2019

ST523: Statistical Modelling

Fernando Colchero

01/02/2019 → 01/06/2019

01/04/2019 → ...

**Kernebegreber og forskningspraksisser
indenfor humanvidenskaberne**

Christian Damm Pedersen, Claus Schatz-Jakobsen, Nina Nørgaard, Peter Simonsen, Nils Arne Sørensen, Emily J. Hogg & Casper Sylvest

05/09/2019 → 05/12/2019

ST813: Statistical Modelling

Fernando Colchero

01/02/2019 → 01/06/2019

Biostat II

Martin Dalgaard Villumsen, Pia Veldt Larsen & Silvia Rizzi

21/03/2019 → 22/05/2019

BABB501: Bachelor Project in Biology (15 ECTS) - Nature management and age-

**structure of breeding Black-headed gull
(*Larus ridibundus*) in Tarup-Davinde**

Owen Jones & Johan Dahlgren

07/01/2019 → 01/06/2019

Advanced Economic History

Anthony Wray

16/12/2019 → 16/12/2019

BABB501: Bachelor Project in Biology (15 ECTS) - The Tarup-Davinde population of black-headed gull

Johan Dahlgren & Owen Jones

07/01/2019 → 01/06/2019

Climate and Environmental Economics

Keith Andrew Meyers

01/09/2019 → 20/12/2019

**Co-Supervisor - Master thesis: Detecting
wildlife laundering of chelonians through
economic viability analysis**

Johanna Stärk

01/09/2019 → 01/06/2020

International Economics

Keith Andrew Meyers

01/09/2019 → 20/12/2019

**BB812 Research Project III (10 ECTS) -
Explaining demographic variation in the
shape of mortality trajectories in plants**

Patrick Barks & Owen Jones

15/01/2019 → 07/06/2019

Methods 5 (social science)

Klaus Petersen & Heidi Vad Jønsson

01/02/2019 → 31/12/2019

**BB839: Planning and evaluation of biological
studies**

Owen Jones

02/09/2019 → 13/12/2019

**Internal supervisor of Assoc Prof Dennis
Spies, SDU Universitetspædagogikum /
Lecturer Training Programme**

Pieter Vanhuysse

01/03/2019 → 01/01/2020

BB512: Population and Evolution

Owen Jones

02/09/2019 → 13/12/2019

Understanding Social Policy

Pieter Vanhuysse

01/09/2019 → 31/01/2020

Undervisnings CV

Peter Simonsen

Source: A report made in Pure. 21/07/2020

**Human Capital Politics and Policies: Investing
in People**

Pieter Vanhuysse
14/08/2019 → 31/08/2019

**Welfare Society in an International
Perspective (guest lecturer)**

Pieter Vanhuysse
20/03/2019 → ...

Economic Principles and Politics

Pieter Vanhuysse
01/09/2019 → 31/01/2020

Politics of Labor Market Change

Peter Starke & Pieter Vanhuysse
01/02/2019 → 30/06/2019

**Economic Principles and Politics for Social
Science**

Pieter Vanhuysse
01/09/2019 → 31/01/2020

**Internal mentor of Prof MSO Annette
Baudisch, SDU Universitetspædagogikum /
Lecturer Training Programme**

Pieter Vanhuysse
02/09/2019 → 30/06/2020

Statistics

Seetha Menon
01/02/2019 → 30/06/201

4 Awards

Nicklas Freisleben Lund, CPop affiliate from CPop HUM received '**Arbejderhistorieprisen**' for his PhD-thesis "In Ambivalent Battle. The Strike and the Novel 1850-1950 that examines the literary history of strikes.

About the prize

Arbejderhistorieprisen is an annual academic prize awarded by the Worker's Museum, The Workers' Movement's Library and Archive and The Danish Society for Working-Class History. The prize is awarded to a master or PhD-thesis that deals with topics related to Danish or International working-class history. Read more [here](#).



5 Outreach

5.1 Research outreach through (social) media

Outreach and societal relevance is at the core of CPop mission and significant efforts has been voted in 2019 to establish research outreach channels. In this we collaborate with our partners, namely, *Population Europe*, a network of Europe's leading research centres in the field of policy-relevant population studies, *The Conversation*, an independent source of news and views, sourced from the academic and research community and delivered direct to the public, and SDU communication officers.

CPop has established a Twitter account targeting scientific community, journalists and interested public with our research news, and other news from CPop. By the end of 2019 CPop Twitter had nearly 400 followers.

We publish regularly news about our research results on CPop website, CPop Twitter account, through Population Europe, and The Conversation.

In 2019, The Conversation featured the following articles authored by CPop affiliates in 2019:

- [How Long Can Humans Live](#), authors: **Medford, Vaupel**, Christensen, with 150.000 reads on The Conversation since May 2019 in three language mutations (English, Spanish, Indonesian), republished in Quartz, Live Science, Videnskab, World Economic Forum, Inverse, Big Think, Universal Science, News Republic, The Independent, Medical Xpress, Times of Malta
- [EU membership benefits](#), authors: Barnebek Andersen, **Vanhuyse**, 15,198 reads, with 400 engagements across Facebook + Twitter
- [Endangered species](#): authors: **Colchero, Conde**, 6,000 reads, primarily in US, UK, Australia, France – republished in Cosmos Magazine and Times of Malta with 560 engagements across Facebook + Twitter
- [Biodiversity](#), authors: **Staerk, Conde, Colchero**, 3,300 reads, primarily in US, UK and Australia – republished in World Economic Forum and Phys.org with 300 engagements across Facebook + Twitter
- [Venezuela's soaring murder rate](#), authors: **Aburto, Garcia**, 3,600 reads, primarily in US, UK, Australia and Canada – republished in The Wire. In with 66 engagements across Facebook + Twitter

- [Mexican war on drugs](#): authors: **Aburto**, Enciso, 2,200 reads, primarily in US, UK, Australia and Mexico – 150 engagements across Facebook + Twitter

(Statistics of reads as of October 2, 2019)

Read more about [Population Europe](#).

Read more about [The Conversation](#).

Link to our Twitter account [@CPop_SDU](#).

Check [CPop website](#).

5.2 Applied Research in Conservation Demography

Extinction is basically a demographic process, when mortality surpasses fertility. Therefore, understanding demographic processes is essential for conservation and research in ecology and evolution. CPop researchers are actively involved in developing tools that allows practitioners to find most accurate demographic data available on any species.

CPop Associate Professor Dalia Conde is also the Director of Science at Species360, where she uses her wealth of research experience to uncover the conservation potential of the Zoological Information Management System (ZIMS), the world's most comprehensive database of knowledge on more than 22,000 species. Together with her a team of CPop affiliates collaborates closely with the Species360 and uses the ZIMS database to fill knowledge gaps for conservation and to improve species management.

[Read more about the Species 360 here](#).

5.3 Press and Media presence

CPop researchers and their research was cited in 168 articles in newspaper, radio and TV outlets ranging from *Fredericia Dagblat* to *CNN*. For a complete list see Annex 1.



News and events

Find out more about all our events, publications, vacancies and news and highlights from the centre. Search through all or select by research area.



Research

CPop research spans a broad range of topics linked to ageing, longevity, and survival in human and non-human species. Learn more about CPop research areas and projects.

- Our events
- Our people
- Publications
- Teaching
- Vacancies
- Get in touch

Tweets by @CPop_SDU

3 CPop SDU Retweeted

Population Europe
@PopulationEU

Are you a strong statistical analyst with expertise in population dynamics? Join @jwvaupel @SogaardJes & others at @CPop_SDU as an Associate Professor in Statistical Demography with a focus on forecasting.

Deadline: 7 Sept. More info here: bit.ly/3fQIEp9

SDU 
UNIVERSITY OF
SOUTHERN DENMARK

Embed [View on Twitter](#)

[Follow](#)



About the centre

CPop is an interdisciplinary cross-faculty collaboration between researchers drawn from demography, public health, biology, mathematics, economics, political science and humanities.

SUSTAINABLE DEVELOPMENT GOALS

Our contribution to the sustainable developmental goals

Find out how interdisciplinary CPop research aligns with and contributes to the Sustainable Development Goals.

6 Sustainable Development Goals

The Interdisciplinary Centre on Population Dynamics joined the initiative of the University of Southern Denmark and supports the Sustainable Development Goals by conducting basic and applied research that advances knowledge and provide tools for monitoring and implementation of the Sustainable Development Goals. Below is a summary of CPop contribution to the Goals.

3 GOOD HEALTH AND WELL-BEING



3.4 By 2030, reduce by one third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being

CPop is monitoring and analysing the trends of mortality by cause of death. Its research on mortality forecasting, inequalities in health and survival, gender lifespan inequalities, social lifespan inequalities can inform policy makers on trends and prospects of mortality from non-communicable diseases

4 QUALITY EDUCATION



4.7 By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development

CPop studies contributions of literature and other art forms to mediating, understanding and rethinking ageing in society

5 GENDER EQUALITY



5.1 End all forms of discrimination against all women and girls everywhere

CPop is committed to tackling sexism and gendered ageism in cultural artefacts, social policy, institutions and society by identifying and bringing attention to biological, social and cultural differences between the genders throughout the life course.

5.4 Recognize and value unpaid care and domestic work through the provision of public services, infrastructure and social protection policies and the promotion of shared responsibility within the household and the family as nationally appropriate

CPop challenges the widespread assumption that only paid work contributes to the wealth of a nation, by including a focus on caring responsibilities and domestic work, with important implications for social policy.

5.C Adopt and strengthen sound policies and enforceable legislation for the promotion of gender equality and the empowerment of all women and girls at all levels

CPop produces multidisciplinary research engaging with gender differences in life course and how these impact women's and men's ageing; these findings are of great relevance for policy and legislation

10 REDUCED INEQUALITIES



10.2 By 2030, empower and promote the social, economic and political inclusion of all,

CPop studies lifespan inequality, gender inequality in life expectancy, and its links to pensions. Thus creates policy-relevant knowledge on differences within population that can impede inclusion.

10.3 Ensure equal opportunity and reduce inequalities of outcome, including by eliminating discriminatory laws, policies and practices and promoting appropriate legislation, policies and action in this regard

CPop studies intergenerational equity, early childhood investment and ways through which welfare states and their policies can reduce inequalities of outcome and opportunities.

10.4 Adopt policies, especially fiscal, wage and social protection policies, and progressively achieve greater equality

CPop studies intergenerational equity, early childhood investment and other welfare state provisions and their impact on society and its segments.

11 SUSTAINABLE CITIES AND COMMUNITIES



11.3 By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries

CPop is developing forecasting methods to better assess future needs and capacities for changing population size and structure. It is useful in settlement planning and management for cities, regions, countries.

11.4 Strengthen efforts to protect and safeguard the world's cultural and natural heritage

CPop works towards safeguard of natural heritage by filling the gaps in knowledge about animals and plants life spans, reproduction and mortality using modelling and data from wild and captive populations.

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



12.2 By 2030, achieve the sustainable management and efficient use of natural resources

CPop is supporting sustainable management efforts and increased efficiency in use of natural resources by filling the gaps in knowledge about species life spans, reproduction and mortality using modelling and data from wild and captive populations.

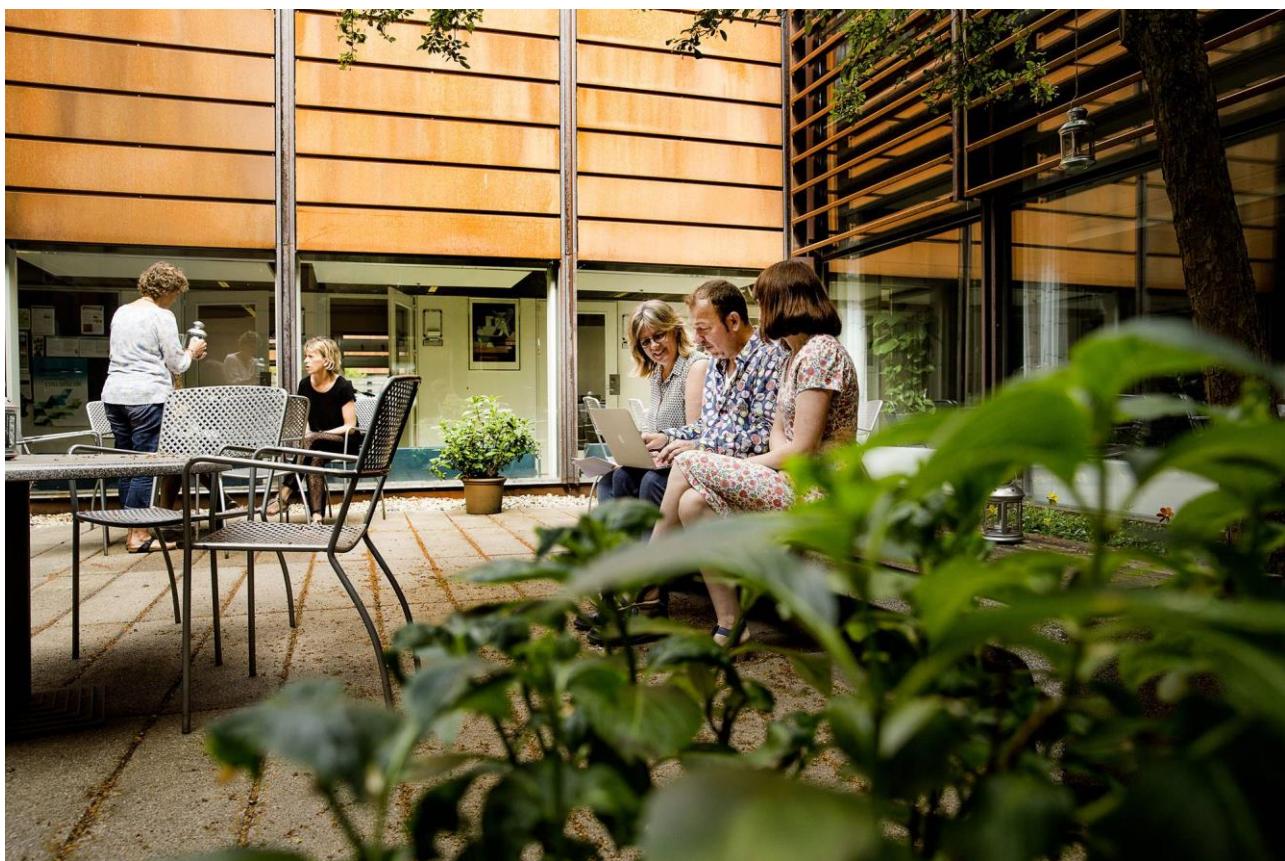
13 CLIMATE ACTION



13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning

CPop is raising awareness of endangered species conservation by filling the gaps in knowledge about species life spans, reproduction and mortality using modelling and data from wild and captive populations.

14 LIFE BELOW WATER 	<p>14.2 By 2020, sustainably manage and protect marine and coastal ecosystems to avoid significant adverse impacts, including by strengthening their resilience, and take action for their restoration in order to achieve healthy and productive oceans</p> <p>CPop is increasing demographic knowledge of poorly studied species and providing analytical tools to successfully manage populations in their environment and reintroduce endangered species from captivity, e.g. corals.</p> <p>14.4 By 2020, effectively regulate harvesting and end overfishing, illegal, unreported and unregulated fishing and destructive fishing practices and implement science-based management plans, in order to restore fish stocks in the shortest time feasible, at least to levels that can produce maximum sustainable yield as determined by their biological characteristics</p> <p>CPop is developing tools that rely on accurate knowledge of life cycles and demography to contribute to science-based management plans to protect and restore fish stocks.</p> <p>14.a Increase scientific knowledge, develop research capacity and transfer marine technology, taking into account the Intergovernmental Oceanographic Commission Criteria and Guidelines on the Transfer of Marine Technology, in order to improve ocean health and to enhance the contribution of marine biodiversity to the development of developing countries, in particular small island developing States and least developed countries</p> <p>CPop contributes to increasing scientific knowledge on endangered species demography and life history, while exploring the contribution of captive populations to improve management of species of conservation and commercial value (e.g. fisheries).</p>
15 LIFE ON LAND 	<p>15.5 Take urgent and significant action to reduce the degradation of natural habitats, halt the loss of biodiversity and, by 2020, protect and prevent the extinction of threatened species</p> <p>CPop gathers and models population data and studies population dynamics of endangered species. This is essential for conservation efforts of endangered species.</p> <p>15.7 Take urgent action to end poaching and trafficking of protected species of flora and fauna and address both demand and supply of illegal wildlife products</p> <p>CPop is not only increasing demographic knowledge and developing analytical tools for management and conservation but is working closely with international organisations such as the Convention on International Trade of Endangered Species (CITES) to better inform the trade of endangered species.</p>
16 PEACE, JUSTICE AND STRONG INSTITUTIONS 	<p>16.1 Significantly reduce all forms of violence and related death rates everywhere</p> <p>CPop gathers data and analyzes the impact of violent death on mortality and lifespan inequalities in selected countries (e.g. Latin America).</p>



7 People

The following list of CPop affiliates indicate those who has been affiliated to CPop in 2019. It also shows the budget sources covering wages of the affiliates: CPop budget UK10 (*), external grants UK95 (\$), or other SDU resources UK10 (#).

CPop affiliates	Position	Cpop unit	Funded by
Annette Baudisch	Professor MSO	Kernel	*
Catalina Torres	Research Assistant	Kernel	*
Cosmo Strozza	PhD Student	Kernel	*
Helle Bisgaard Jensen	Communication Officer - Talent	Kernel	#
Ilya Kashnitsky	Research Assistant	Kernel	\$
James W. Vaupel	Professor	Kernel	*
Jana Vobecká	Chief Academic Administrator	Kernel	*
Jesús-Adrian Álvarez	PhD Student	Kernel	\$
Jim Oeppen	Associate Professor	Kernel	*
Jonas Schöley	Research Assistant	Kernel	*
José Manuel Aburto	Research Assistant	Kernel	\$/*
Lars Henrik Pedersen	Secretary	Kernel	*
Marie-Pier Bergeron Boucher	PostDoc	Kernel	\$
Monica Wellejus	Student Assistant	Kernel	#
Óskar Daði Jóhannsson	Student Assistant	Kernel	*
Søren Kjærgaard	Research Assistant	Kernel	\$/*
Virginia Zarulli	Associate Professor	Kernel	*/\$
Camilla Riis Nielsen	PhD Student	CPop HEALTH	#
Linda Ahrenfeldt	Assistant Professor	CPop HEALTH	#
Martina Otavová	Research Assistant	CPop HEALTH	#
Maarten Wensink	Assistant Professor	CPop HEALTH	*
Rune Lindahl-Jacobsen	Associate Professor	CPop HEALTH	#
Silvia Rizzi	Postdoc	CPop HEALTH	*
Anthony Wray	Assistant Professor	CPop SAM	#
Astrid Roll Vitved	Research Assistant	CPop SAM	#
Christian Møller Dahl	Professor	CPop SAM	#
Dennis Spies	Associate Professor	CPop SAM	#
Emil Nørmark Sørensen	PhD Student	CPop SAM	#
Frederikke Frehr Kristensen	PhD Student	CPop SAM	#

(continued)

CPop Affiliates	Position	CPop unit	Funded by
Giovanni Mellace	Associate Professor	CPop SAM	#
Jørgen T. Lauridsen	Professor	CPop SAM	#
Keith Andrew Meyers	Assistant Professor	CPop SAM	#
Klaus Petersen	Professor	CPop SAM	#
Lars Lønstrup	Associate Professor	CPop SAM	#
Marianne Ulriksen	Assistant Professor	CPop SAM	#
Melike Wulfgramm	Associate Professor	CPop SAM	#
Mircea Trandafir	Associate Professor	CPop SAM	#
N. Meltem Daysal	Associate Professor	CPop SAM	#
Paul Richard Sharp (also Dias)	Professor	CPop SAM	#
Peter Sandholt Jensen	Professor	CPop SAM	#
Pieter Vanhuysse	Professor	CPop SAM	#
Romana Careja	Associate Professor	CPop SAM	#
Seetha Menon	Assistant Professor	CPop SAM	*
Terkel Christiansen	Professor emeritus	CPop SAM	#
Ana Rita da Silva	PhD Student	CPop NAT	\$
Dalia Amor Conde	Associate Professor	CPop NAT	*/\$
Ditte Wiig Tholstrup	PhD Student	CPop NAT	\$
Donald Eugene Canfield	Professor	CPop NAT	#
Fernando Colchero	Associate Professor	CPop NAT	*
Gesa Römer	PhD Student	CPop NAT	\$
Johan Dahlgren	Associate Professor	CPop NAT	*
Johanna Stärk	Postdoc	CPop NAT	\$
Maria Baden	PhD Student	CPop NAT	\$
Owen Jones	Associate Professor	CPop NAT	*
Alastair Morrison	Assistant Professor	CPop HUM	*
Anita Wohlmann	Assistant Professor	CPop HUM	*
Ella Fegitz	Postdoc	CPop HUM	*
Nicklas Freisleben Lund	Postdoc	CPop HUM	#

8 Budget & Fundraising

8.1 CPop budget overview

SDU budget (UK10) available resources in 2019, in thousands DKK

CPop Budget	SDU Frirums pulje	SDU faculty	Total
CPop Kernel	9.191	-	9.191
CPop HUM	500	1.000	1.500
CPop NAT	500	2.500	3.000
CPop SAM	500	2.500	3.000
CPop HEALTH	500	2.500	3.000
Total	11.191	8.500	19.691

Expenditure in 2019 by CPop unit and source of income, in thousands DKK

Source of income:	SDU Frirumspulje	SDU faculty	SDU other	External funding	Total
- in thousands DKK					
CPop Kernel	7.292	-	0	1.449	8.741
CPop NAT	244	2.456	0	4.224	6.924
CPop SAM	0	584	0	0	584
CPop HEALTH	385	1.572	80	645	2.682
CPop HUM	158	1.000	0	0	1.158
Total	8.079	5.612	80	6.318	20.089
- in % of total spending					
CPop Kernel	83	-	0	17	100
CPop NAT	4	35	0	61	100
CPop SAM	0	100	0	0	100
CPop HEALTH	14	59	3	24	100
CPop HUM	14	86	0	0	100
Total	40	28	0	31	100

Note: Data provided by CPop units.

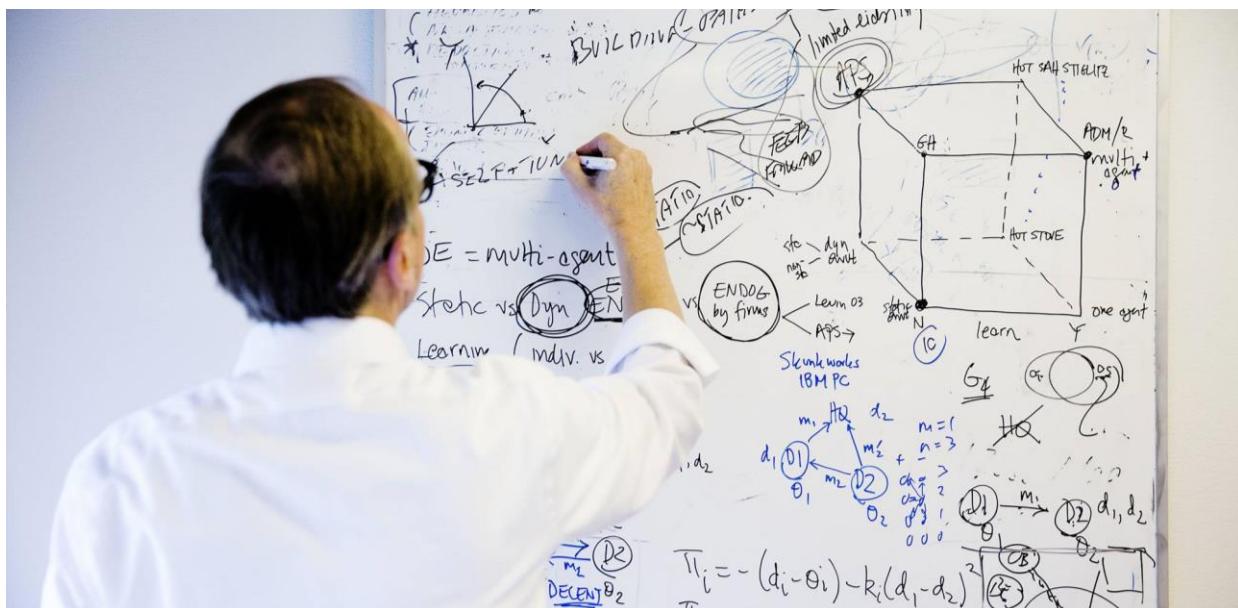
Expenditure in 2019 by Cpop unit and type of spending, in thousands DKK

	CPop Kernel	CPop NAT	CPop SAM	CPop HEALTH	CPop HUM	Total
Persons - Research staff	5.966	6.457	517	2.307	1.158	16.405
Persons - Admin Staff	1.564	223	0	-	0	1.787
Operational costs	1.211	244	67	375*	0	1.897
Total	8.741	6.924	584	2.682	1.158	20.089

Note: Data provided by CPop units.

* Includes Administrative costs

CPop shows a strong capacity for generating external research funds. **In 2019 a full 31 % of CPop total costs were covered by external funding.** This is a slight increase compared to the year 2018. Administrative and operational costs of the Centre were just 18 % of the total costs. Due to its capacity to draw from external funds, CPop generated savings. These will be used in the coming years for new hiring and further CPop development.



8.2 Fundraising: External grants of CPop Affiliates

Principal investigator	Project name	Founder	Start date	End date	Total amount granted (DKK)
Christian Møller Dahl	Inside the black box of welfare state expansion: Early-life health policies, parental investments and socio-economic and health trajectories	Uddannelses- og Forskningsministeriet	01-01-2019	31-12-2023	2.490.631
Dalia Amor Conde	Samarbejdsaftale mellem Species360 og SDU	Species360	01-03-2017	31-12-2021	4.478.472
Dalia Amor Conde	Donation fra Species360 - Dalia Amore Conde	Species360	01-03-2018	31-08-2022	2.517.308
Fernando Colchero	Demography, population dynamics and movement projects for the Karisoke Mountain Gorilla Project.	Dian Fossey Gorilla Fund International	01-10-2019	30-09-2020	235.200
Gesa Römer	Oikos Travel Grant - Stina Edelfeldt og Gesa Römer	Nordic Society OIKOS	20-02-2018	22-02-2018	6.000
Gesa Römer	travel stipends to the OIKOS conference in Island	Nordic Society OIKOS	01-10-2019	30-06-2020	5.000
Giovanni Mellace	Causal Inference with Multiple IVs: Using Mendelian Randomization to Estimate the Causal Effects of Cannabis and Alcohol on Labor Productivity and of Creativity and Risk Taking on Entrepreneurship	Uddannelses- og Forskningsministeriet	01-09-2019	31-08-2023	4.168.080
James W. Vaupel	AXA Chair (SAMF)	AXA Research Fund	01-12-2018	15-03-2025	5.074.783
James W. Vaupel	Longevity Update	AARP - American Association of Retired Persons	20-05-2019	12-12-2019	166.052
James W. Vaupel	AARP Longevity Update	AARP - American Association of Retired Persons	01-03-2018	20-12-2018	386.554

(continued)

Principal investigator	Project name	Founder	Start date	End date	Total amount granted (DKK)
James W. Vaupel	Challenges to Implementation of Indexation of the Pension Age in Denmark	Rockwool Fonden	01-01-2020	31-12-2022	4.054.000
Jana Vobecká	EDSD support to international lecturers 2018	European Association for Population Studies EAPS	26-10-2018	01-10-2019	37.248
Johan Dahlgren	Towards more realistic predictions of the effects of climate and land use changes on species distributions	Sveriges forskningsråd (Vetenskapsrådet) FORMAS	01-01-2017	31-12-2019	131.908
Jørgen T. Lauridsen	Establishment of a Danish SHARE data infrastructure	Carlsbergfondet	01-01-2019	31-12-2020	5.000.000
Jørgen T. Lauridsen	SHARE	Tryghedsgruppen	01-01-2019	31-12-2023	1.500.000
Jørgen T. Lauridsen	SHARE - Helsefonden	Helsefonden (tidl. Sygekassernes Helsefond)	01-01-2020	31-12-2023	550.000
Jørgen T. Lauridsen	SHARE - VELUX	Velux fonden	01-01-2020	31-12-2023	3.600.000
Jørgen T. Lauridsen	Social ulighed i demens samt identificering af forebyggende faktorer for kognitiv dysfunktion	Helsefonden (tidl. Sygekassernes Helsefond)	01-01-2019	31-08-2023	400.000
Lars Lönstrup	Inequality in Life Span and the Macroeconomy: A Theoretical Inquiry	Uddannelses- og Forskningsministeriet	01-09-2019	28-02-2022	756.960
Marie-Pier Bergeron Boucher	Coherent mortality forecasts by cause of death and disability level	The SCOR Corporate Foundation for Science	01-01-2020	31-12-2020	484.250
Owen Jones	Could senescence be adaptive? causes and consequences of aging across the tree of life	EU - Horizon 2020	01-05-2017	31-08-2019	1.491.451
Paul Richard Sharp	Conflict and Development	Uddannelses- og Forskningsministeriet	01-08-2019	31-12-2023	5.437.440
Virginia Zarulli	Life length and life disparity research network	Uddannelses- og Forskningsministeriet	01-03-2020	31-12-2020	286.560

9 Annexes

Annex 1: Press and Media Presence

New mathematical model can help save endangered species

11/01/2019

EurekAlert!, Web

Annette Baudisch, Fernando Colchero

New mathematical model can help save endangered species

12/01/2019

HealthMediciNet.com, Web

Annette Baudisch, Fernando Colchero

New mathematical model can help save endangered species

14/01/2019

Innovations Report, Web

Annette Baudisch, Fernando Colchero

Hvor længe kan mennesker leve?

29/07/2019

Videnskab.dk, Web

Anthony Medford, James W. Vaupel

Venezuela's soaring murder rate has plunged the nation into a public health crisis

10/05/2019

Venezuela, Bolivarian Republic of, Web

<https://theconversation.com/venezuelas-soaring-murder-rate-has-plunged-the-nation-into-a-public-health-crisis-116771>

José Manuel Aburto

El alto número de homicidios en México y Venezuela reduce la esperanza de vida de sus ciudadanos, según estudio

03/06/2019

CNN (International), Web

<https://cnnespanol.cnn.com/2019/06/03/el-alto-numero-de-homicidios-en-mexico-y-venezuela-reduce-la-esperanza-de-vida-de-sus-ciudadanos-segun-estudio/>

José Manuel Aburto

Latin America accounts for one third of world's homicides, life expectancy dropping in some countries: study

03/06/2019

Fox News (International), Web

<https://www.foxnews.com/world/latin-america-one-third-homicides-life-expectancy-dropping>

José Manuel Aburto

Mexico's murder rate is so high it has altered the life expectancy of men

24/01/2019

Newsweek, United States

<https://www.newsweek.com/mexico-murder-rate-homicide-altered-life-expectancy-men-drug-cartel-1303394>

José Manuel Aburto

Mexican war on drugs has, in places, decreased life expectancy.

15/02/2019

The Conversation, UK, United Kingdom

<https://bit.ly/2GwZjvS>

José Manuel Aburto

Soaring Mexican murder rate 'dragging down life expectancy'

28/01/2019

The London Economic, United Kingdom

<https://www.thelondoneconomic.com/news/soaring-mexican-murder-rate-dragging-down-life-expectancy/28/01/>

José Manuel Aburto

Kan filmhistoriens mange mrs. Robinson'er være andet end rovdyr, gale eller guddommelige?

22/03/2019

Information, Print

Anita Wohlmann

Hvordan kan en ældre kvinde begære en yngre mand - på film?

21/03/2019

Information - Login, Web

Anita Wohlmann

Matematiske modeller kan forudse dyr sandsynlighed for at uddø

29/06/2019

Videnskab.dk, Web

Dalia Amor Conde, Fernando Colchero

New mathematical model to save endangered species

14/01/2019

PhysOrg.com, Web

Fernando Colchero

Un modelo matemático puede salvar a las especies amenazadas

14/01/2019

Tendencias 21, Web

Fernando Colchero

Scientists calculate the size of errors in the calculation of generation time of endangered species

23/04/2019

SDU Website (National), Denmark, Web

Majken Brahe Ellegaard Christensen

https://www.sdu.dk/en/om_sdu/fakulteterne/naturvidenska_b/nyheder2019/2019_04_23_errorbarspopmodels

Johanna Stärk

Biodiversity: many species could be even more likely to go extinct than we realise

01/02/2019

The Conversation (International), Denmark, Web

<https://theconversation.com/biodiversity-many-species-could-be-even-more-likely-to-go-extinct-than-we-realise-116765>

Johanna Stärk

Zoos and aquaria deliver missing information critical to sustaining biodiversity

23/04/2019

University of Oxford (International), United Kingdom, Web

<http://www.ox.ac.uk/news/2019-04-12-zoos-and-aquaria-deliver-missing-information-critical-sustaining-biodiversity>

Johanna Stärk

We are severely underestimating the problem of endangered species, a report says

01/05/2019

World Economic Forum, Denmark

<https://www.weforum.org/agenda/2019/05/biodiversity-many-species-could-be-even-more-likely-to-go-extinct-than-we-realise/>

Johanna Stärk

Pindsvineunger klarer sig i forstæderne

06/11/2019

Syddansk Universitet, Web

Owen Jones

Litteratur som kur mod ensomhed

04/11/2019

24Nyt, Web

Peter Simonsen

PRM / Litteratur som kur mod ensomhed

04/11/2019

Bornholms Tidende, Web

Peter Simonsen

Danske Fysioterapeuter på Folkemødet

21/05/2019

Danske Fysioterapeuter, Web

Peter Simonsen

Småt og godt fra folkemødet

20/06/2019

Danske Fysioterapeuter, Web

Peter Simonsen

Litteratur som kur mod ensomhed

04/11/2019

Fredericia Avisen, Web

Peter Simonsen

Derfor tiltrækker klassikere flere publikummer end ny dramatik: - Det er en god øvelse at spejle sig i fortiden

02/09/2019

Fyens, Web

Peter Simonsen

KULTURKALENDER

24/01/2019

Fyens Stiftstidende, Print

Peter Simonsen

Klassikere tiltrækker flere publikummer end ny dramatik

02/09/2019

Fyens Stiftstidende, Print

Peter Simonsen

- Det er de samme ting, vi slås med 100 år efter "Den store Gatsby"

02/09/2019

Fyens Stiftstidende, Print

Peter Simonsen

Mænd skal læse sig ud af ensomhed

08/11/2019

Fyens Stiftstidende, Print

Peter Simonsen

KULTURKALENDER

24/01/2019

Fyns Amtsavis, Print

Peter Simonsen

Det er de samme ting, vi slås med 100 år efter "Den store Gatsby"

02/09/2019

Fyns Amtsavis, Print

Peter Simonsen

Klassikere tiltrækker flere publikummer end ny dramatik

02/09/2019

Fyns Amtsavis, Print

Peter Simonsen

Litteraturen er rykket ind på medicinstudiet

08/03/2019

Information, Print

Peter Simonsen

Litteraturundervisning på medicinstudiet skal lære

kommande læger at se mennesket før sygdommen

07/03/2019

Information - Login, Web

Peter Simonsen

Jo, man kan skrive gode digte om seniorsex og besvær med

vandladning

14/09/2019

Jyllands-Posten, Print

Peter Simonsen

I digte kan man undersøge alderdommen ærligt

14/09/2019

Jyllands-Posten Premium, Web

Peter Simonsen

10 litterære værker om arv og testamente

25/05/2019

Kristeligt Dagblad, Print

Peter Simonsen

Hvis dit liv var en wiki

10/09/2019

LæringsCentret, Print

Peter Simonsen

Litteratur som kur mod ensomhed

04/11/2019

Middelfart Avisen, Web

Peter Simonsen

PRM / Litteratur som kur mod ensomhed

04/11/2019

Newsbreak.dk, Web

Peter Simonsen

PRM / Litteratur som kur mod ensomhed

04/11/2019

Ritzau, Print

Peter Simonsen

Litteraturen er et instrument

03/06/2019

Sygeplejersken, Print

Peter Simonsen

Kan litteratur helbrede?

22/01/2019

Ugeavisen Odense, Print

Peter Simonsen

Klassikere hitter: Vi opfatter kvalitet, når vi ser det

17/09/2019

Ugeavisen Odense, Print

Peter Simonsen

Litteratur som kur mod ensomhed

04/11/2019

Via Ritzau, Web

Peter Simonsen

Ny professor skal forske i mænd og kvinders levetid

18/10/2019

Altinget, Web

Rune Lindahl-Jacobsen

UDNÆVNT

26/09/2019

Børsen, Print

Rune Lindahl-Jacobsen

Rune Lindahl-Jacobsen professor i epidemiologi og demografi
på SDU

19/09/2019

Fyens, Web

Rune Lindahl-Jacobsen

Muskelbundt, der tog til Hollywood, fylder 75

24/09/2019

Fyens Stiftstidende, Print

Rune Lindahl-Jacobsen

NAVNE I NOTER

25/09/2019

Jyllands-Posten, Print

Rune Lindahl-Jacobsen

PRM / Rune Lindahl-Jacobsen professor i epidemiologi og
demografi på SDU

18/09/2019

Localeyes, Web

Rune Lindahl-Jacobsen

PRM / Rune Lindahl-Jacobsen professor i epidemiologi og
demografi på SDU

18/09/2019

Newsbreak.dk, Web

Rune Lindahl-Jacobsen

Professor i epidemiologi og demografi

29/09/2019

Nordjyske Stiftstidende Aalborg, Print

Rune Lindahl-Jacobsen

Professor i epidemiologi og demografi 29/09/2019 Nordjyske Stiftstidende Himmerland, Print Rune Lindahl-Jacobsen	Er man genetisk kodet til at blive iværksætter? 01/08/2019 Dagbladet Ringkøbing-Skjern, Web Christian M. Dahl
Professor i epidemiologi og demografi 29/09/2019 Nordjyske Stiftstidende Thisted Dagblad, Print Rune Lindahl-Jacobsen	Er man genetisk kodet til at blive iværksætter? 08/08/2019 Dagbladet Ringkøbing-Skjern, Print Christian M. Dahl
Professor i epidemiologi og demografi 29/09/2019 Nordjyske Stiftstidende Vendsyssel, Print Rune Lindahl-Jacobsen	Er man genetisk kodet til at blive iværksætter? 08/08/2019 Erhverv+ Fyn, Print Christian M. Dahl
PRM / Rune Lindahl-Jacobsen professor i epidemiologi og demografi på SDU 18/09/2019 Ritzau, Print Rune Lindahl-Jacobsen	Er man genetisk kodet til at blive iværksætter? 08/08/2019 Erhverv+ Østjylland, Print Christian M. Dahl
Rune Lindahl-Jacobsen professor i epidemiologi og demografi på SDU 23/09/2019 Syddansk Universitet, Web Rune Lindahl-Jacobsen	Er man genetisk kodet til at blive iværksætter? 08/08/2019 Erhverv+ Sydjylland, Print Christian M. Dahl
Rune Lindahl-Jacobsen professor i epidemiologi og demografi på SDU 18/09/2019 Via Ritzau, Web Rune Lindahl-Jacobsen	Er man genetisk kodet til at blive iværksætter? 08/08/2019 Erhverv+ Vestjylland, Print Christian M. Dahl
Er man genetisk kodet til at blive iværksætter? 01/08/2019 Århus Stiftstidende, Web Christian M. Dahl	Er man genetisk kodet til at blive iværksætter? 01/08/2019 Folkebladet Lemvig, Web Christian M. Dahl
Er man genetisk kodet til at blive iværksætter? 08/08/2019 Århus Stiftstidende, Print Christian M. Dahl	Er man genetisk kodet til at blive iværksætter? 08/08/2019 Folkebladet Lemvig, Print Christian M. Dahl
Er man genetisk kodet til at blive iværksætter? 01/08/2019 Dagbladet Holstebro-Struer, Web Christian M. Dahl	Er man genetisk kodet til at blive iværksætter? 01/08/2019 Fredericia Dagblad, Web Christian M. Dahl
Er man genetisk kodet til at blive iværksætter? 08/08/2019 Dagbladet Holstebro-Struer, Print Christian M. Dahl	Er man genetisk kodet til at blive iværksætter? 08/08/2019 Fredericia Dagblad, Print Christian M. Dahl
Er man genetisk kodet til at blive iværksætter? 08/08/2019 Fyens, Web Christian M. Dahl	Er man genetisk kodet til at blive iværksætter? 01/08/2019 Fyens, Print Christian M. Dahl

Er man genetisk kodet til at blive iværksætter?	Professor modtager halvanden million til forskning i ældres data
01/08/2019	07/12/2019
Horsens Folkeblad, Web	Altinget, Web
Christian M. Dahl	Jørgen T. Lauridsen
Er man genetisk kodet til at blive iværksætter?	Nyt om navne
08/08/2019	31/10/2019
Horsens Folkeblad, Print	Berlingske, Print
Christian M. Dahl	Jørgen T. Lauridsen
Er man genetisk kodet til at blive iværksætter?	Vi skubber på for praktiserende læger i udsatte boligområder
01/08/2019	09/03/2019
Jydske Vestkysten, Web	Boligen, Print
Christian M. Dahl	Jørgen T. Lauridsen
Er man genetisk kodet til at blive iværksætter?	HÆDER
08/08/2019	13/11/2019
Jydske Vestkysten Fællessektion, Print	Børsen, Print
Christian M. Dahl	Jørgen T. Lauridsen
Er man genetisk kodet til at blive iværksætter?	NAVNE I NOTER
01/08/2019	24/11/2019
Randers Amtsavis, Web	Jyllands-Posten, Print
Christian M. Dahl	Jørgen T. Lauridsen
Er man genetisk kodet til at blive iværksætter?	Donationer
08/08/2019	02/11/2019
Randers Amtsavis, Print	Lolland-Falsters Folketidende, Print
Christian M. Dahl	Jørgen T. Lauridsen
Er man genetisk kodet til at blive iværksætter?	Temadag om uligheden
01/08/2019	30/10/2019
Vejle Amts Folkeblad, Web	Morsø Folkeblads Ugeavis, Print
Christian M. Dahl	Jørgen T. Lauridsen
Er man genetisk kodet til at blive iværksætter?	Temadag om uligheden
08/08/2019	05/11/2019
Vejle Amts Folkeblad, Print	Nordjyske Stiftstidende Thisted Dagblad, Print
Christian M. Dahl	Jørgen T. Lauridsen
Er man genetisk kodet til at blive iværksætter?	Professorer fra SDU modtager ridderkors
01/08/2019	04/11/2019
Viborg Stifts Folkeblad, Web	Altinget, Web
Christian M. Dahl	Klaus Petersen
Er man genetisk kodet til at blive iværksætter?	Dronningen har tildelt 18 medaljer
08/08/2019	04/11/2019
Viborg Stifts Folkeblad, Print	Bornholms Tidende, Web
Christian M. Dahl	Klaus Petersen
DFF-bevillinger til to forskere på Samfundsviden	Dronningen har tildelt 18 medaljer
09/05/2019	04/11/2019
Syddansk Universitet, Web	Bornholms Tidende, Print
Giovanni Mellace	Klaus Petersen

PRM / Hvordan blev Nordens velfærdsstater til konkurrencestater? 02/12/2019 Bornholms Tidende, Web Klaus Petersen	Hvordan blev Nordens velfærdsstater til konkurrencestater? 02/12/2019 Middelfart Avisen, Web Klaus Petersen
Hvordan blev Nordens velfærdsstater til konkurrencestater? 02/12/2019 Fredericia Avisen, Web Klaus Petersen	PRM / Hvordan blev Nordens velfærdsstater til konkurrencestater? 02/12/2019 Newsbreak.dk, Web Klaus Petersen
Sagen om Godhavnsdrengene: Museumsleder går i graven med historisk undskyldning 14/08/2019 Fyens, Web Klaus Petersen	ORDENER 06/11/2019 Politiken, Print Klaus Petersen
Dronningen har tildelt 18 medaljer 04/11/2019 Fyens, Web Klaus Petersen	Dronningen har tildelt 18 medaljer 04/11/2019 Ritzau, Print Klaus Petersen
Museumsleder vil aldrig glemme historisk undskyldning 15/08/2019 Fyens Stiftstidende, Print Klaus Petersen	PRM / Hvordan blev Nordens velfærdsstater til konkurrencestater? 02/12/2019 Ritzau, Print Klaus Petersen
MEDALJER 05/11/201 Fyens Stiftstidende, Print Klaus Petersen	Fra velfærdsstater til konkurrencestater 28/11/2019 Syddansk Universitet, Web Klaus Petersen
Museumsleder vil aldrig glemme historisk undskyldning 15/08/2019 Fyns Amtsavis, Print Klaus Petersen	Undskyldning til Godhavnsdrengene: Museum i Svendborg fortsætter forskningen 13/08/2019 TV 2 Fyn, Web Klaus Petersen
For at være et stort magtparti i Danmark, skal man forsvere den danske velfærd 18/05/2019 Information, Print Klaus Petersen	Sydvæstjyske Museer laver aftale med Syddansk Universitet 09/04/2019 Ugeavisen Esbjerg, Print Klaus Petersen
For at være et stort magtparti i Danmark, skal man forsvere den danske velfærd 17/05/2019 Information - Login, Web Klaus Petersen	Sydvæstjyske Museer laver aftale med Syddansk Universitet 09/04/2019 Ugeavisen for Bramming og Omegn, Print Klaus Petersen
FRA HOFFET 09/11/2019 Lolland-Falsters Folketidende, Print Klaus Petersen	Sydvæstjyske Museer laver aftale med Syddansk Universitet 09/04/2019 Ugeavisen Ribe, Print Klaus Petersen

Hvordan blev Nordens velfærdsstater til konkurrencestater?	Et land af mælk og smør
02/12/2019	06/06/2019
Via Ritzau, Web	Weekendavisen, Web
Klaus Petersen	Paul Richard Sharp
Hvordan går det egentlig med de der 2020-mål?	Et land af mælk og smør
16/03/2019	07/06/2019
Information, Print	Weekendavisen, Print
Lars Lønstrup	Paul Richard Sharp
Hvordan går det egentlig med de der 2020-mål? Der er kun 291 dage, til de skal være indfriet	Hvordan får vi reduceret tuberklosedødeligheden?
15/03/2019	13/09/2019
Information - Login, Web	Syddansk Universitet, Web
Lars Lønstrup	Peter Sandholt Jensen
Skylder vi pensionisterne flere tusinde kroner?	BBC World Service: background interview on the past and future of the European Project
09/05/2019	27/02/2019
TjekDet, Web	BBC, Radio
Lars Lønstrup	Pieter Vanhuysse
Født til at tabe	Intet bevis for at EU skaber vækst
26/04/2019	11/05/2019
Weekendavisen, Print	Arbejderen, Web
Linda Juel Ahrenfeldt	Pieter Vanhuysse
Employment creation: policies for a key development challenge	The EU creates no growth ('Europese Unie creëert geen groei')
06/05/2019	13/03/2019
GlobalDev, Denmark	De Standaard (National), Belgium, Print
https://www.globaldev.blog/blog/employment-creation-policies-key-development-challenge	Dries De Smet
Marianne Sandvad Ulriksen	http://www.standaard.be/cnt/dmf20190312_04248630
Romanen i populismens tidsalder	Hvad betaler Danmark til EU, ansatte i EU og vanvittig regeltsunami fra EU
12/03/2019	20/03/2019
Atlas Podcast, Denmark	Den Korte Avis, Web
Nicklas Freisleben Lund	Pieter Vanhuysse
'Den tale og den aften vil gå over i historien som et ungdomsoprør'	Forskere tvivler på EU som vækstmotor
31/10/2019	22/05/2019
Dagbladet Information, Denmark	Folkebevægelsen mod EU, Web
Nicklas Freisleben Lund	Pieter Vanhuysse
Danske udvandrere revolutionerede USA's mejerisektor	Handelszeitung: 'Die Europäische Union schafft kaum Wirtschaftswachstum'
25/09/2019	13/03/2019
Ny Viden, Print	Handelszeitung, Germany
Paul Richard Sharp	Melanie Loos
Danes revolutionised US dairy industry in late 19th century	https://www.handelszeitung.ch/konjunktur/die-europaische-union-schafft-kaum-wirtschaftswachstum
13/11/2019	Pieter Vanhuysse & Thomas Barnebeck Andersen
The Copenhagen Post, Web	
Paul Richard Sharp	

mokestis uz emigrantus 02/04/2019 LNK News TV: Interview with largest Lithuanian TV network Pieter Vanhuysse	Dagbladet Holstebro-Struer, Web Romana Careja
Plan om import af højtuddannede møder kritik 06/09/2019 Magisterbladet, Print Pieter Vanhuysse	10 ting, du skal vide om indvandring til Danmark 04/06/2019 Dagbladet Holstebro-Struer, Print Romana Careja
Hjerneflugten fra øst har skabt et A- og B-hold i EU 06/09/2019 Magisterbladet, Print Pieter Vanhuysse	Her får du overblikket: Sådan går det med indvandringen i Danmark 04/06/2019 Dagbladet Ringkøbing-Skjern, Web Romana Careja
Hjerneflugten fra øst har skabt et A- og B-hold i EU 06/09/2019 Magisterbladet, Web Pieter Vanhuysse	10 ting, du skal vide om indvandring til Danmark 04/06/2019 Dagbladet Ringkøbing-Skjern, Print Romana Careja
Plan om import af højtuddannede møder kritik 06/09/2019 Magisterbladet, Web Pieter Vanhuysse	Her får du overblikket: Sådan går det med indvandringen i Danmark 04/06/2019 Folkebladet Lemvig, Web Romana Careja
Bringt ein EU-Beitritt mehr Wirtschaftswachstum? 31/05/2019 Neue Zürcher Zeitung, Switzerland Pieter Vanhuysse & Thomas Barnebeck Andersen	10 ting, du skal vide om indvandring til Danmark 04/06/2019 Folkebladet Lemvig, Print Romana Careja
Danske forskere: EU-medlemsskab har mange fordele, men økonomisk vækst er ikke én 25/04/2019 Videnskab.dk, Web Pieter Vanhuysse	10 ting, du skal vide om indvandring til Danmark 04/06/2019 Fredericia Dagblad, Print Romana Careja
10 ting, du skal vide om indvandring til Danmark 04/06/2019 Århus Stiftstidende, Print Romana Careja	Her får du overblikket: Sådan går det med indvandringen i Danmark 04/06/2019 Fredericia Dagblad, Web Romana Careja
Her får du overblikket: Sådan går det med indvandringen i Danmark 04/06/2019 Århus Stiftstidende, Web Romana Careja	Her får du overblikket: Sådan går det med indvandringen i Danmark 04/06/2019 Fyens, Web Romana Careja
10 ting, du skal vide om indvandring til Danmark 04/06/2019 Dagbladet Holstebro-Struer, Print Romana Careja	10 ting, du skal vide om indvandring til Danmark 04/06/2019 Fyens Stiftstidende, Print Romana Careja
Her får du overblikket: Sådan går det med indvandringen i Danmark 04/06/2019	10 ting, du skal vide om indvandring til Danmark 04/06/2019

Fyns Amtsavis, Print

Romana Careja

10 ting, du skal vide om indvandring til Danmark

04/06/2019

Horsens Folkeblad, Print

Romana Careja

Her får du overblikket: Sådan går det med indvandringen i Danmark

04/06/2019

Horsens Folkeblad, Web

Romana Careja

Her får du overblikket: Sådan går det med indvandringen i Danmark

04/06/2019

Jydske Vestkysten, Web

Romana Careja

10 ting, du skal vide om indvandring til Danmark

04/06/2019

Jydske Vestkysten Fællessektion, Print

Romana Careja

10 ting, du skal vide om indvandring til Danmark

04/06/2019

Randers Amtsavis, Print

Romana Careja

Her får du overblikket: Sådan går det med indvandringen i

Danmark

04/06/2019

Randers Amtsavis, Web

Romana Careja

10 ting, du skal vide om indvandring til Danmark

04/06/2019

Vejle Amts Folkeblad, Print

Romana Careja

Her får du overblikket: Sådan går det med indvandringen i

Danmark

04/06/2019

Vejle Amts Folkeblad, Web

Romana Careja

10 ting, du skal vide om indvandring til Danmark

04/06/2019

Viborg Stifts Folkeblad, Print

Romana Careja

Her får du overblikket: Sådan går det med indvandringen i

Danmark

04/06/2019

Viborg Stifts Folkeblad, Web

Romana Careja

Representation of women over 40 in media

03/07/2019

TRT World (International), Turkey, Television

<https://www.trtworld.com/video/showcase/representation-of-women-over-40-in-media-showcase/5d1ee0d4b9fa6764a9a57450>

Ella Fegitz

Source: SDU PURE database, extracted on

August 12, 2020

Annex 2: Research seminars and their speakers in 2019

	Date	Presenter
18	January	Jim Oeppen & Kaare Christensen
25	January	Anthony Medford
8	February	Jonas Schöley
15	February	Ugo Filippo Basellini
22	February	Vladimir Canudas-Romo*
1	March	James Vaupel
8	March	Clara Mulder*
22	March	Elke Loichinger*
29	March	Lionel Keszenbaum*
12	April	Lars Lønstrup
26	April	James Vaupel
3	May	Jørgen T. Lauridsen
24	May	Elena Ambrosetti*
7	June	Striessnig Erich*, Di Lego Goncalves Vanessa*
21	June	Heather Booth*
28	June	Svenja Weise*
27	September	Rune Lindahl-Jacobsen
7	October	Alexia Fürnkranz-Prskawetz*
11	October	Ella Fegitz
25	October	Jim Oeppen
8	November	Annette Baudisch
22	November	Robi Gal*
28	November	Marcus Ebeling*
5	December	Maarten Bijlsma*
6	December	Jose Manuel Aburto
16	December	Elizabeth Wrigley Field*

Note: * indicates visiting researcher

SUSTAINABLE DEVELOPMENT GOALS



The Interdisciplinary Centre on Population Dynamics
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