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## CURRICULUM VITAE | MARTINA OTAVOVA, PH.D.

Sustainable Service Systems (S3) Research Group  
Energy, Climate, and Environment (ECE) Program  
International Institute for Applied Systems Analysis

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### RESEARCH INTERESTS

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- Socioeconomic Health Inequality • Climate change • Environmental Inequality •
- Population Projections • Burden of Disease

### ACADEMIC POSITIONS AND WORK EXPERIENCE

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Since 01/2026	<b><u>Research Scholar</u></b> Sustainable Service Systems Research group Energy, Climate, and Environment Program International Institute for Applied Systems Analysis, Laxenburg, Austria
12/2024-12/2025	<b><u>Postdoctoral Researcher</u></b> Center for Demographic Research (DEMO), University of Louvain, Louvain-la-Neuve, Belgium Research project: “ <i>Climate change-related mortality in different population groups in urbanized Belgium (TEMPUR)</i> ”
12/2024-02/2025	<b><u>Consultant</u></b> Health Equity Monitoring Unit, WHO, remote
09/2019-08/2020	<b><u>Research assistant</u></b> Unit of Epidemiology, Biostatistics and Biodemography, University of Southern Denmark, Odense, Denmark

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## EDUCATION

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- 10/2020-11/2024 **Dual Ph.D. in Demography and Statistics**  
University of Louvain, Hasselt University, Belgium  
Thesis: "*Multiple Deprivation and Health Inequality in Belgium*"  
Supervisors: Prof. Bruno Masquelier, Prof. Christel Faes, Prof. Brecht Devleesschauwer
- 09/2018-08/2019 **European Doctoral School of Demography (EDSD)**  
University of Southern Denmark, Odense, Denmark  
Fellowship by *the Max Planck Institute for Demographic Research, Rostock, Germany*
- 09/2016-07/2018 **Master of Statistics in Epidemiology and Public Health Methodology**  
Hasselt University, Hasselt, Belgium  
Graduated with distinction  
Thesis: "*Impact of tobacco control interventions on health expectancies: use of dynamic modelling for health impact assessment in Belgium*"  
Supervisors: Prof. Brecht Devleesschauwer, Prof. Geert Molenberghs
- 05/2014-05/2016 **Bachelor of Science in Interdisciplinary Studies**  
University of Central Florida, Orlando, Florida, United States  
Graduated summa cum laude  
Major: Interdisciplinary Studies  
Minor: Health Sciences and Psychology

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## INTERNSHIPS AND RESEARCH STAY EXPERIENCE

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- 11/2023-01/2024 **Internship**  
Unit of Sensory Functions, Disability, and Rehabilitation, WHO, Geneva, Switzerland

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06/2023-08/2023 **Visiting scholar**

Department of Demography, Montreal University, Canada  
Research group “*Mortality and Longevity*”

## **AWARD**

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2022 Mitacs Globalink Research Travel Award  
Funding of CAD6,000

## **MASTER THESIS SUPERVISION**

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09/2023-08/2024 Félicie Tasiaux (with Prof. Bruno Masquelier)  
What are the inequalities in the seasonality of deaths in Belgium?  
Master in Demography, Université Catholique de Louvain

01/2021-06/2021 Polina Putrik (with Prof. Brecht Devleesschauwer)  
Spatial distribution of smoking attributable mortality in Belgium.  
Master in Science in Statistics, Hasselt University

## **TECHNICAL SKILLS**

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R Software, R Markdown, GitHub, MS Office

## **LANGUAGES**

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Czech	Native language
English	Full professional proficiency
German	Limited working proficiency
French	Basic knowledge

## **PUBLICATIONS**

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- Lee K M, Rega E, Loopmans M, Otavova M, Van Orshoven J, Aerts R, Somers B. (2026). Socioeconomic inequities in visible, functional, and accessible green space

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exposure: A cross-sectional study in Flanders, Belgium. *Urban Forestry & Urban Greening*. <https://doi.org/10.1016/j.ufug.2026.129301>

- Vandeninden B, Devleesschauwer B, Otavova M, Faes C, Bouland C, De Clercq E. (2026). Urban and transport planning, air pollution, and green space: health effects in three Belgian cities. *Journal of Public Health*. <https://doi.org/10.1007/s10389-025-02660-5>
- Otavova M, Schluter BS, Faes C, Bouland C, De Clercq E, Vandeninden B, Devleesschauwer B, Masquelier B. (2025). Spatial variation in cause-specific premature mortality and its association with socioeconomic deprivation in Belgium from 2000 to 2019. *Archives of Public Health*. Volume 83. <https://doi.org/10.1186/s13690-025-01694-1>
- Vandeninden B, Devleesschauwer B, Otavova M, Vanpoucke C, Hooyberghs H, Faes C, Bouland C, De Clercq E. (2025). Implications of spatial and seasonal air pollution patterns, socioeconomic disparities, and 15-minute communities for achieving WHO air quality guidelines. *Scientific Reports* 15. <https://doi.org/10.1038/s41598-025-98123-8>
- Vandeninden B, De Clercq E, Devleesschauwer B, Otavova M, Masquelier B, Fierens F, Faes C, Bouland C. (2025). Impact assessment of local traffic interventions on disease burden: A case study on paediatric asthma incidence in two European cities. *Journal of Transport & Health*. Volume 40. <https://doi.org/10.1016/j.jth.2024.101953>
- Vandeninden B, De Clercq E, Devleesschauwer B, Otavova M, Bouland C, Faes C. (2024). Cluster pattern analysis of environmental stressors and quantifying their impact on all-cause mortality in Belgium. *BMC Public Health*. 24. <https://doi.org/10.1186/s12889-024-18011-0>
- Otavova M, Masquelier B, Faes C, Van den Borre L, De Clercq E, Vandeninden B, Devleesschauwer B. (2023). Trends in socioeconomic inequalities in cause-specific premature mortality in Belgium, 1998-2019. *BMC Public Health*. <https://doi.org/10.1186/s12889-024-17933-z>
- Otavova M, Masquelier B, Faes C, Van den Borre L, Bouland C, De Clercq E, Vandeninden B, De Bleser A, Devleesschauwer B. (2023). Measuring small-area level deprivation in Belgium: The Belgian Index of Multiple Deprivation. *Spatial and Spatio-temporal Epidemiology*. Volume 45. <https://doi.org/10.1016/j.sste.2023.100587>
- Otavova M, Faes C, Bouland C, De Clercq E, Vandeninden B, Eggerickx T, Sanderson JP, Devleesschauwer B, Masquelier B. (2022). Inequalities in mortality

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associated with housing conditions in Belgium between 1991 and 2020. BMC Public Health 22, 2397. <https://doi.org/10.1186/s12889-022-14819-w>

- Putrik P, Otavova M, Faes C, Devleeschauwer B. (2022). Variation in smoking-attributable all-cause mortality across municipalities in Belgium, 2018: application of a Bayesian approach for small area estimations. BMC Public Health 22, 1699. <https://doi.org/10.1186/s12889-022-14067-y>
- Ahrenfeldt LJ, Otavova M, Christensen K, Lindahl-Jacobsen R. (2021). Sex and age differences in COVID-19 mortality in Europe. Wien Klin Wochenschr.;133(7-8):393-398. <https://doi.org/10.1007/s00508-020-01793-9>
- Otavova M, Van Oyen H, Yokota RTC et al. (2020). Potential impact of reduced tobacco use on life and health expectancies in Belgium. International Journal of Public Health 65, 129–138. <https://doi.org/10.1007/s00038-019-01315-z>

## MANUSCRIPTS IN PROGRESS

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- Otavova M, Masquelier B, Ouellette N. Uncovering socioeconomic disparities in modal age at death and its dispersion in Belgium from 2000 to 2019. (working paper).
- Otavova M & Masquelier B. Population projections consistent with Shared Socioeconomic Pathways across Belgian districts (working paper).

## REPORTS

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**2024** Performance of the Belgian health system.

<https://www.belgiqueenbonnesante.be/metadata/hspa/2024/P13.pdf>

## CONFERENCES

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**2024**

- **International Biometric Conference, IBC2024** (Atlanta, USA)  
“Uncovering socioeconomic disparities in modal age at death in Belgium since 2000.” Oral session.
- **GEOMED2024** (Hasselt, Belgium)  
“Spatial variation in inequality distribution of all-cause and cause-specific premature mortality in Belgium since 2000.” Oral session.

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*“Uncovering socioeconomic disparities in modal age at death in Belgium since 2000. GEOMED2024.”* Poster session.

- **Population Association of America (PAA2024)** (Columbus, USA)  
*“Spatial variation in inequality distribution of all-cause and cause-specific premature mortality in Belgium since 2000.”* Oral session.  
*“Uncovering socioeconomic disparities in modal age at death in Belgium since 2000.”* Poster session.

## 2023

- **Belgian Demography Day** (Louvain-la-Neuve, Belgium)  
*“Trends in socioeconomic inequalities in cause-specific premature mortality in Belgium (1998-2019).”* Oral session.
- **Population Association of America, PAA2023** (New Orleans, USA)  
*“Trends in socioeconomic inequalities in cause-specific premature mortality in Belgium (1998-2019).”* Poster session.

## 2022

- **British Society for Population Studies Conference, BSPS2022** (Winchester, UK)  
*“Measuring small-area level deprivation in Belgium: the Belgian Index of Multiple Deprivation.”* Oral session.
- **International Biometric Conference, IBC2022** (Riga, Latvia)  
*“Premature mortality attributable to socioeconomic inequality in Belgium between 1991 and 2020.”* Oral session.
- **European Population Conference 2022, EPC2022** (Groningen, Netherlands)  
*“Premature mortality attributable to socioeconomic inequality in Belgium between 1991 and 2020.”* Oral session.

## 2021

- **International Population Conference 2021, IPC2021** (Online)  
*“Inequalities in mortality associated with housing conditions in Belgium between 1991 and 2015.”* Poster session.
- **European Public Health Conference, EUPHA2021** (Online)

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*“Inequalities in mortality associated with housing conditions in Belgium between 1991 and 2015.”* Poster session.

- **ENRGHI Conference** (Online)

*“Inequalities in mortality associated with housing conditions in Belgium between 1991 and 2015.”* Oral session.