

# CHIARA CELINE BRÜCK

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## EDUCATION

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### PhD Candidate

2019 – present

*Erasmus MC, Erasmus Medical Center Rotterdam*

*Rotterdam, Netherlands*

- Department of Public Health, Evaluation of Screening
- Promotor: Prof.dr. Harry de Koning
- Supervisor: Dr. Inge de Kok
- Research Topic: The development of a dementia microsimulation model

### Visiting Scholar

2022

*Harvard T.H. Chan School of Public Health*

*Boston, MA, United States*

- Center for Health Decision Science
- Supervisor: Dr. Ankur Pandya

### MSc Health Sciences

2020 – present

*Netherlands Institute for Health Sciences (NIHES)*

*Rotterdam, Netherlands*

- Specialization: Clinical Epidemiology

### MSc Econometrics and Operations Research

2018 – 2019

*Maastricht University, School of Business and Economics*

*Maastricht, Netherlands*

- Thesis: Amenity-based Poverty Measurement in Egypt

### BSc Econometrics and Operations Research

2015 – 2018

*Maastricht University, School of Business and Economics*

*Maastricht, Netherlands*

- Thesis: Personality Profiling with Text Classification Algorithms
- Exchange Semester at Bocconi University, Milan, Italy

## PUBLICATIONS

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**Brück, C.C.**, Wolters, F.J., Ikram, M.A., de Kok, I.M.C.M. (2023). Projections of costs and quality adjusted life years lost due to dementia from 2020-2050: a population-based microsimulation study. *Alzheimer's & Dementia*. <https://doi.org/10.1002/alz.13019>

**Brück, C.C.**, Wolters, F.J., Ikram, M.A., de Kok, I.M.C.M. (2022). Projected prevalence and incidence of dementia accounting for secular trends and birth cohort effects: a population-based microsimulation study. *European Journal of Epidemiology*, 37, 807–814. <https://doi.org/10.1007/s10654-022-00878-1>

Handels, R., [...], **Brück, C. C.**, et al. (2022). Cost-effectiveness Models for Alzheimer's disease and related dementias: IPECAD Modelling Workshop Cross Comparison Challenge. *Alzheimer's & Dementia* <https://doi.org/10.1002/alz.12811>

**Brück, C.C.** (2022). Letter to the editor regarding “Fluoxetine May Enhance VEGF, BDNF and Cognition in Patients with Vascular Cognitive Impairment No Dementia: An Open-Label Randomized Clinical Study”. *Neuropsychiatric Disease and Treatment*, 18, 463-464. <https://doi.org/10.2147/NDT.S361484>

## PUBLICATIONS (continued)

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**Brück, C.C.**, Wolters, F.J., Ikram, M.A., de Kok, I.M.C.M. (2021). Heterogeneity in Reports of Dementia Disease Duration and Severity: A Review of the Literature. *Journal of Alzheimer's disease: JAD*, 84(4), 1515–1522.  
<https://doi.org/10.3233/JAD-210544>

## CURRENT PROJECTS

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The Prognosis of Dementia: A Systematic Review and Meta-Analysis *with Dr. Frank Wolters, Sanne Mooldijk and Lieke Kuiper*

The impact of modifiable risk factor reduction on future dementia incidence and prevalence: a modeling study *with Dr. Inge de Kok, Prof.dr. Arfan Ikram and Dr. Frank Wolters*

Dementia Risk Factors and Primary Prevention Intervention Strategies *with Dr. Ankur Pandya and Dr. Inge de Kok*

## GRANTS & AWARDS

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2023 Nominated for Best 2022 Junior Publication at Dept of Public Health, Erasmus MC  
*Projected prevalence and incidence of dementia accounting for secular trends and birth cohort effects: a population-based microsimulation study*

2022 InterAct Beurs for research visit, Alzheimer Nederland, €8,400

2022 Travel grant for international conference, Alzheimer Nederland, €750

## TEACHING

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2023 Instructor and Grading Assistant, NIHES EL022: Planning and evaluation of screening, taught by Prof. Iris Lansdorp-Vogelaar, Erasmus MC

2022 Grading Assistant, RDS 280: Decision Analysis for Health and Medical Practices, taught by Prof. Ankur Pandya, Harvard T.H.Chan School of Public Health

2021 - 2022 Supervision Community Project, third year Medicine students, Erasmus MC

2021 Grading Assistant, NIHES HS05: Planning and evaluation of screening, taught by Prof. Iris Lansdorp-Vogelaar, Erasmus MC

## TECHNICAL SKILLS & LANGUAGES

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Software Python, R, STATA

Tools GitLab, LaTeX, Microsoft Office

Languages German (native), English (fluent, Cambridge C1, 2014), Italian (conversational, CILS B2, 2017)  
Dutch (conversational, Erasmus University B1.2, 2020)

## PRESENTATIONS

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- 06/2023 \*WEON conference, Rotterdam, The Netherlands (*oral*)  
“The Impact of Modifiable Risk Factor Reduction on the Future Dementia Burden: A Microsimulation Modeling Study”
- 05/2023 Clinical and Health Sciences PhD day, Erasmus MC (*poster*)  
“The Impact of Modifiable Risk Factor Reduction on the Future Dementia Burden: A Microsimulation Modeling Study”
- 04/2023 Decision Science Methods Club, Collaboration between Erasmus MC and Harvard (*oral*)  
“The Impact of Modifiable Risk Factor Reduction on the Future Dementia Burden: A Microsimulation Modeling Study”
- 12/2022 Center for Health Decision Science Meeting, Harvard T.H. Chan School of Public Health (*oral*)  
“Dementia Risk Factors and Primary Prevention”
- 10/2022 Society for Medical Decision Making Conference (SMDM), Seattle, WA, USA (*poster*)  
“Decision making on dementia primary prevention: The impact of modifiable risk factor reductions”
- 09/2022 Clinical Epidemiology Meeting, Harvard T.H. Chan School of Public Health (*oral*)  
“An Introduction to MISCAN-Dementia”
- 08/2022 Stroke & CVD Meeting, Harvard T.H. Chan School of Public Health (*oral*)  
“Overview of Dementia Modeling: Focus on MISCAN-Dementia”
- 08/2022 Alzheimer’s Association International Conference (AAIC), San Diego, CA, USA (*oral*)  
“Projected costs of dementia and quality adjusted life years lost between 2020-2050: a population-based microsimulation study”
- 12/2021 Research Seminar, Department of Public Health, Erasmus MC (*oral*)  
“The development of MISCAN-Dementia, first projections and future steps”
- 12/2021 Alzheimer Europe Conference (AEC), online (*oral*)  
“Projections of Costs and quality adjusted life years lost due to dementia, 2020-2050: a population-based microsimulation study”
- 09/2021 IPECAD Model Comparison Workshop, online (*oral*)  
“MISCAN-Dementia update”
- 07/2021 Alzheimer’s Association International Conference (AAIC), online (*oral*)  
“How do dementia risk differences between birth cohorts affect future incidence predictions: A microsimulation study”
- 05/2021 Research Seminar, Alzheimer Center, Erasmus MC (*oral*)  
“The development of a microsimulation model for dementia”
- 02/2021 Club Meth, Department of Public Health, Erasmus MC (*oral*)  
“MISCAN-Dementia”
- 10/2020 Alzheimer Europe Conference (AEC), online (*poster*)  
“The development of a microsimulation model to predict the future burden of dementia”
- 09/2020 IPECAD Model Comparison Workshop, online (*oral*)  
“MISCAN-Dementia update”
- 07/2020 Alzheimer’s Association International Conference (AAIC), online (*poster*)  
“The development of a microsimulation model to predict the future burden of dementia and effects of public health interventions”

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## REVIEWER EXPERIENCE

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- 2022 European Journal of Epidemiology

## EXTRACURRICULAR

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- 2021 - present    Programming group for maintenance and improvement of MISCAN modeling framework
- 2021 - present    Academic Center of Excellence (ACE) – Alzheimer’s working group
- 2021 - present    Sustainability Committee “Green Team”, Department of Public Health
- 2021 - present    ISTAART member, Alzheimer’s Association
- Professional Interest Areas (PIAs): Health Policy, Design and Data Analytics, Reserve, Resilience, and Protective Factors, Nonpharmacological Interventions, PIA to Elevate Early Career Researchers (PEERs), Alliance of Women Alzheimer’s Researchers (AWARE)
- 2020 - 2022      Junior Representative Committee, Department of Public Health
- Chair and Introduction Role