Curriculum Vitae: Judith Rijnhart, PhD

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PROFESSIONAL EXPERIENCE

August 2022-present	Assistant Professor of Epidemiology	College of Public Health, University of South Florida, Tampa, Florida, USA
May 2020-July 2022	Postdoctoral researcher	Department of Epidemiology and Data Science, Amsterdam UMC, Amsterdam, the Netherlands

EDUCATION

2021	Ph.D.	Epidemiology	VU University, Amsterdam, the Netherlands
2016	M.Sc.	Health Sciences (clinical epidemiology focus)	Erasmus University, Rotterdam, the Netherlands
2014	M.Sc. (*cum laude*)	Health Sciences (prevention and public health focus)	VU University, Amsterdam, the Netherlands
2013	Pre M.Sc.	Health Sciences (prevention and public health focus)	VU University, Amsterdam, the Netherlands
2013	Bc.	Nursing (with a minor in education)	Windesheim University of Applied Sciences, Zwolle, the Netherlands

RESEARCH FUNDING

Current funding

2024   Alzheimer's Association Research Grant.
Agency: Alzheimer's Association
Total requested: $199,288
Role: Principal Investigator

Past funding

2023   Title: Comparing Apples and Oranges: Adjustment for Mediators and Colliders as a Source of Heterogeneity in Meta-Analyses
Grant mechanism: COPH Internal Award
Total requested: $8,246
Role: Principal Investigator

2019   Title: Reproducibility
Grant mechanism: Methodology Program Voucher
Agency: Amsterdam Public Health Research Institute (APH) - Methodology Section
Total requested: €50,000 (~$56,000)
Role: Postdoctoral researcher / Principal investigator (Mentor: Jos Twisk)

2019   Title: Non-collapsibility in logistic regression: the problem you never knew you had
        Grant mechanism: Internal research grant
        Agency: Amsterdam Public Health Research Institute (APH) - Methodology Section
        Total requested: €10,000 (~$11,200)
        Role: Principal investigator

2018   Title: Causal interpretation of longitudinal mediation analysis
        Grant mechanism: Fulbright grant
        Agency: Netherlands America Commission for Educational Exchange
        Total requested: $4,000
        Role: Principal Investigator (Mentor: David MacKinnon)

2018   Grant mechanism: Cultural Foundation Grant
        Agency: Prins Bernhard Cultuurfonds
        Total requested: €3,000 (~$3,540)
        Role: Principal Investigator

SELECTED PEER-REVIEWED PAPERS
(*Indicates a student co-author, ‡indicates authors who contributed equally)

1. *Holthuijsen, D. D. B., **Rijnhart, J. M. M.**, Bours, M. J. L ., Van Roekel, E. H., Ueland, P. M., Breukink, S. O., Janssen-Heijnen, M. L. G., Konsten, J. L., Keulen, E. T. P., McCann, A., Brezina, S., Gigic, B., Ulrich, C. M., Weijenberg, and M. P., Eussen, S. J. P. M. (2025). Longitudinal associations of dietary intake with fatigue in colorectal cancer survivors up to 1 year post-treatment, and the potential mediating role of the kynurenine pathway. *Brain, Behavior, and Immunity*. 126 (2025):144-159.

2. **Rijnhart, J. J. M.**, *Rabbers, A., & *Rizzuto, S. (2024). Also long overdue: consideration of collider bias in guidelines and tools for systematic reviews and meta-analyses of observational studies. *International Journal of Epidemiology*. 53(6): dyae147.

3. ‡**Rijnhart, J. J. M.**, ‡Valente, M. J., & MacKinnon, D. P. (In press). Why you should not estimate mediated effects using the difference-in-coefficients method when the outcome is binary. *Multivariate Behavioral Research*.

4. *Benyahia, S. A., *Kahlon, S., **Rijnhart, J. J. M.**, and Bishnoi, R. (2024). Exploring the relationship between amyloid burden and depression in pre-clinical Alzheimer's disease. *Cureus* 16(9): e69716.

5. Pan, K.-Y., Van TuijL, L., Basten, M., **Rijnhart, J. J. M.**, De Graeff, A., Dekker, J., Geerlings, M., Hoogendoorn, A., Ranchor, A. V., Vermeulen, R., Portengen, L., Voogd, A., Abell, J., Awadalla, P., Beekman, A. T. F., Bjerkeset, O., Boyd, A., Cui, Y., Frank, P., Galenkamp, H., Garssen, B., Hellingman, S., Hollander, M., Huisman, M., Huss, A., Keats, M. R., Kok, A. A. L., Krokstad, S., Van Leeuwen, F. E., Luik, A.I., Noisel, N., Payette, Y., Penninx, B. W. J. H., Picavet, S., Rissanen, I., Roest, A. M., Rosmalen, J. G. M., Ruiter, R., Schoevers, R. A., Soave, D. M., Spaan, M. Steptoe, A., Stronks, K., Sund, E. R., Sweeney, E., Teyhan, A., Twait, E. L., Van der Willik, K. D., and Lamers, F. (In press). The mediating role of health behaviours in the association between depression, anxiety and cancer incidence: An individual participant data meta-analysis. *Psychological Medicine.*

6. Valente, M. J., *Pang, J., **Rijnhart, J. J. M.**, Ferron, J., & Miočević, M. (In press). Estimating mediation effects in ABAB reversal designs. *Evaluations and the Health Professions.*

7. Valente, M. J., **Rijnhart, J. J. M.**, & Gonzalez, O. (2023). A novel approach to estimate moderated treatment effects and moderated mediated effects with continuous moderators. *Psychological methods.*

8. Broekhoven, J. L., Blankenstein, A. M. M. M., Van Santvoort, F., Asscher, J. J., Van Domburgh, L., Simons, I., Dekovic, M., Albrecht, G., Van der Rijken, R. E. A., **Rijnhart, J. J. M.**, & Popma, A. (2023). Family-centeredness in secure residential treatment and its relation with parental

involvement and juvenile behavioral outcomes. *Journal of Child and Family Studies, 32*(12), 3697-3713.

9. *Mank, A., Van Maurik, I., **Rijnhart, J. J. M.**, Rodius-Meester, H. F. M., Visser, L. N. C., Lemstra, A. W., Sikkes, S., Teunissen, C. E., Van Giessen, E., Berkhof, J., Van der Flier, W. M. (2023). Determinants of informal care time, distress, depression and quality of life in care partners along the trajectory of Alzheimer's Disease. *Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring, 15*(2), e12418.

10. *Schuster, N. A., Twisk, J. W. R., Heymans, M. W., & **Rijnhart, J. J. M.** (2023). Causal mediation analysis with a binary mediator: the influence of the estimation appraoch and causal contrast on the mediation effect estimates and their interpretation. *Structural Equation Modeling: a Multidisciplinary Journal*, 30(3), 481-490.

11. Valente, M. J., **Rijnhart, J. J. M.**, & Miočević, M. (2023). Causal mediation effects in single case experimental designs. *Psychological methods, 28*(2), 488.

12. *Schuster, N.A., **Rijnhart, J. J. M.**, Bosman, L. C., Twisk, J. W. R., Klausch, T., & Heymans, M. W. (2023). Misspecification of confounder-exposure and confounder-outcome associations leads to extreme bias in effect estimates. *BMC Medical Research Methodology, 23*(1), 1-11.

13. *Mank, A., Van Maurik, I.S., Van Harten, A. C., Rhodius-Meester, H. F. M., Teunissen, C. E., Van Berckel, B. N. M., Berkhof, J., Van der Flier, W. M., **Rijnhart, J. J. M.** (2022). Life satisfaction across the entire trajectory of Alzheimer's disease: a mediation analysis. *Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring, 14*(1), e12389.

14. *,‡Mank, A., ‡**Rijnhart, J. J. M.**, Van Maurik, I. S., Jönsson, L., Handels, R., Berkhof, J., & Van der Flier, W. M. (2022). A longitudinal study on quality of life along the spectrum of Alzheimer's disease. *Alzheimer's Research and Therapy*, 14(1), 1-10.

15. **Rijnhart, J. J. M.**, Twisk, J. W. R., M. J. Valente & Heymans, M. W. (2022). Time lags and time interactions in mixed-effects models impacted longitudinal mediation effect estimates. *Journal of Clinical Epidemiology, 151,* 143-150.

16. *Schuster, N. A., **Rijnhart, J. J. M.**, Twisk, J. W. R., & Heymans, M. W. (2022). Modelling non-linear relationships in epidemiological data: the application and interpretation of spline models. *Frontiers in Epidemiology*, 29.

17. *Mank, A., Van Maurik, I. S., **Rijnhart, J. J. M.**, Bakker, E. D., Bouteloup, V., Le Scouarnec, L., Teunissen, C. E., Barkhof, F., Scheltens, P., Berkhof, J., & Van der Flier, W. M. (2022). Development of multivariable prediction models for institutionalization and mortality in the full spectrum of Alzheimer's disease. *Alzheimer's Research & Therapy*, 14(1), 1-12.

18. Van Veenendaal, N. R., Van Kempen, A. A. M. W., Broekman, B. F. P., De Groof, F., **Rijnhart, J. J. M.**, Van Goudoever, J. B., & Van der Schoor, S. R. D. (2022). Association of a zero-seperation neonatal care model with stress in mothers of preterm infants. *JAMA open, 5*(3), e224514.

19. Jenkins, N. D., Hoogendijk E. O., Armstrong, J. J., Lewis, N. A., Ranson, J. M., **Rijnhart, J. J. M.**, Ahmed, T., Ghachem, A., Mullin, D. S., Ntanasi, E., Welstead, M., Auais, M. A., Bennett, D. A., Bandinelli, S., Cesari, M., Ferrucci, L., French, S. D., Huisman, M., Llewellyn, D. J., Scarmeas, N., Piccinin, A. M., Hofer, S. M., Muniz-Terrera, G. (2022). Trajectories of frailty with aging: coordinated analysis of five longitudinal studies. *Innovation in Aging, 6*(2), igab059.

20. **Rijnhart, J. J. M.**, Twisk, J. W. R., Deeg, D. J. H., & Heymans, M. W. (2022). Assessing the robustness of mediation analysis results using multiverse analysis. *Prevention Science, 23*(5), 821-831.

21. Van Veenendaal, N. R., Van Kempen, A. A. M. W., De Groof, F., Broekman, B. F. P., **Rijnhart, J. J. M.**, Van Goudoever, J. B., & Van der Schoor, S. R. D. (2022). Association of family integrated care model with paternal mental health outcomes during neonatal hospitalization. *JAMA open, 5*(1), e2144720.

22. **Rijnhart, J. J. M.**, Valente, M. J., Smyth, H. L., & MacKinnon, D. P. (2021). Statistical mediation analysis for models with a binary mediator and a binary outcome: the differences between causal and traditional mediation analysis. *Prevention Science,* 1-11.

23. **Rijnhart, J. J. M.**, Lamp, S. J., Valente, M. J., MacKinnon, D. P., Twisk, J. W. R., & Heymans, M. W. (2021). Mediation analysis methods used in practice: a scoping review and recommendations. *BMC Medical Research Methodology, 21*:226.

24. De Breij, S., **Rijnhart, J. J. M.**, Schuster, N. A., Rietman, M. L., Peters, M. J. L., & Hoogendijk, E. O. (2021). Explaining the association between frailty and mortality in older adults: the mediating role of lifestyle, social, psychological, and physical factors. *Preventive Medicine Reports,* 101589.

25. Lee, H., Cashin, A. G., Lamb, S. E., Hopewell, S., Vansteelandt, S., VanderWeele, T. J., MacKinnon, D. P., Mansell, G., Collins, G. S., Golub, R. M., McAuley, J. H., & **the AGReMA Group**. (2021). A guideline for reporting mediation analyses of randomized trials and observational studies: The AGReMA Statement. *Journal of the American Medical Association (JAMA), 326*(11), 1045-1056. (**Member of the AGReMA group**).

26. *Schuster, N. A., Twisk, J. W. R., Ter Riet, G., Heymans, M. W., & **Rijnhart, J. J. M.** (2021). Noncollapsibility and its role in quantifying confounding bias in logistic regression. *BMC Medical Research Methodology, 21*(1), 1-9.

27. Van Zutphen, E. M., Kok, A, A. K., **Rijnhart, J. J. M.**, Rhebergen, D., Huisman, M., & Beekman, A. (2021). An examination of reciprocal effects between cardiovascular morbidity, depressive symptoms and loneliness over time in a longitudinal cohort of Dutch older adults. *Journal of Affective Disorders*, *288*, 122-128.

28. Van Hoffen, M., **Rijnhart, J. J. M.**, Norder, G., Labuschagne, L., & Twisk, J. W. R. (2021). Distress, burnout, work satisfaction, engagement, and work ability are mediators of the relation between psychosocial working conditions and mental health-related long-term sickness absence. *Journal of Occupational Rehabilitation*, *31*(2), 419-430.

29. **Rijnhart, J. J. M.**, Valente, M. J., MacKinnon, D. P., Twisk, J. W. R., & Heymans, M. W. (2021). The use of traditional and causal estimators for mediation models with a binary outcome and exposure-mediator interaction. *Structural Equation Modeling: a Multidisciplinary Journal*, *28*(3), 345-355.

30. Whitelock, V., Rutters, F., **Rijnhart, J. J. M.**, Nouwen, A., & Higgs, S. (2021). The mediating role of comorbid conditions in the association between type 2 diabetes and cognition: a cross-sectional observational study using the UK biobank cohort. *Psychoneuroendocrinology, 123,* 104902.

31. Twisk, J. W. R., **Rijnhart, J. J. M.**, Hoekstra, T. Schuster, N., Ter Wee, M., & Heymans, M. W. (2020). Intention-to-treat analysis when only a baseline value is available. *Contemporary Clinical Trials Communications, 20,* 100684.

32. Van Schoor, N. M., Dennison, E, Castell, M. V., Cooper, C., Edwards, M. H., Maggi, S., Pedersen, N. L., Van der Pas, S., **Rijnhart, J. J. M.**, Lips, P., Deeg, D.J.H., & the EPOSA research group. (2020). Clinical osteoarthritis of the hip and knee and fall risk: the role of low physical functioning and pain medication. *Seminars in Arthritis and Rheumatism*, *50*(3), 380-386.

33. Valente, M. J., **Rijnhart, J. J. M.**, Smyth, H. L., Muniz, F. B., & MacKinnon, D. P. (2020). Causal Mediation Programs in R, Mplus, SAS, SPSS, and Stata. *Structural Equation Modeling: a Multidisciplinary Journal*, *27*(6), 975-984.

34. Van Veenendaal, N. R., Van der Schoor, S. R. D., Heidemans, W. H., **Rijnhart, J. J. M.**, Heymans, M. W., Twisk, J. W. R., Van Goudoever, J. B., & Van Kempen, A. A. M. W. (2020). Family integrated care in single family rooms for preterm infants and late-onset sepsis: a retrospective study and mediation analysis. *Pediatric Research*, *88*, 593-600.

35. Timmer, T. C., De Groot, R., **Rijnhart, J. J. M**., Lakerveld, J., Brug, J., Perenboom, C. W. M., Baart, M., Prinsze, F. J., Zalpuri, S., Van der Schoot, E., De Kort, W. L. A. M., Van den Hurk, K. (2020). Dietary intake of heme iron is associated with ferritin and Hb levels in Dutch blood donors: results from Donor InSight. *Haematologica, 105*(10), 2400-2406.

36. Hoogendijk, E. O., **Rijnhart, J. J. M.**, Skoog, J., Robitaille, A., Van den Hout, A., Ferrucci, L., Huisman, M., Skoog, I., Piccinin, A. M. Hofer, S. M., & Muniz Terrera, G. (2020). Gait speed as predictor of transition into cognitive impairment: findings from three longitudinal studies on aging. *Experimental Gerontology, 129*, 110783.

37. Burgos Ochoa, L., **Rijnhart, J. J. M.**, Penninx, B. W., Wardenaar K. J., Twisk, J. W. R., & Heymans, M. W. (2020). Performance of methods to conduct mediation analysis with time-to-event outcomes. *Statistica Neerlandica, 74*(1), 72-91.

38. Van Vuuren, C. L., Wachter, G. G., Veenstra, R., **Rijnhart, J. J. M.**, Van der Wal, M. F., Chinapaw, M. J. M., Busch, V. (2019) Associations between overweight and mental health problems among adolescents, and the mediating role of victimization. *BMC Public Health, 19*, 612.

39. **Rijnhart, J. J. M.**, Twisk, J. W. R., Eekhout, I., & Heymans, M. W. (2019). Comparison of logistic-regression based methods for simple mediation analysis with a dichotomous outcome variable. *BMC Medical Research Methodology, 19*(1), 19.

40. Cudejko, T., van der Esch, M., van den Noort, J. C., **Rijnhart, J. J. M.**, van der Leeden, M., Roorda, L. D., Lems, W., Waddington, G., Harlaar, J., & Dekker, J. (2018). Decreased pain and improved dynamic knee instability mediate the beneficial effect of wearing a soft knee brace on activity limitations in persons with knee osteoarthritis. *Arthritis Care & Research, 71*(8), 1036-1043.

41. Twisk, J. W. R., Bosman, L. C., Hoekstra, T., **Rijnhart, J. J. M.**, Welten, M., & Heymans, M. W. (2018). Different ways to estimate treatment effects in randomised controlled trials. *Contemporary Clinical Trials Communications, 10*, 80-85.

42. De Koning, E. J., Elstgeest, L. E. M., Comijs, H. C., Lips, P., **Rijnhart, J. J. M.**, van Marwijk, H. W. J., Beekman, A. T. F., Visser, M., Penninx, B. W. J. H., & van Schoor, N. M. (2018). Vitamin D Status and Depressive Symptoms in Older Adults: A Role for Physical Functioning? *American Journal of Geriatric Psychiatry, 26*(11), 1131-1143.

43. **Rijnhart, J. J. M.**, Twisk, J. W. R., Chinapaw, M. J. M., De Boer, M. R., & Heymans, M. W. (2017). Comparison of methods for the analysis of relatively simple mediation models. *Contemporary Clinical Trials Communications, 7*, 130-135.

44. Van Schoor, N. M., Zambon, S., Castell, M. V., Cooper, C., Denkinger, M., Dennison, E. M., Edwards, M. H., Herbolsheimer, F., Maggi, S., Sanchez-Martinez, M., Pedersen, N. L., Peter, R., Schaap, L. A., **Rijnhart, J. J. M.**, Van der Pas, S., & Deeg, D. J. (2016). Impact of clinical osteoarthritis of the hip, knee and hand on self-rated health in six European countries: the European Project on OSteoArthritis. *Quality of Life Research, 25*(6), 1423-1432.

BOOK CHAPTERS

1. Valente, M. J., **Rijnhart, J. J. M.**, & MacKinnon, D. P. (In press). Modern causal mediation and longitudinal models for developmental data. In Handbook of Research Methods in Developmental Science (2nd edition). Wiley.

INVITED COMMENTARIES

1. **Rijnhart, J. J. M.** & Valente, M. J. (2021). Commentary: explaining intervention and exposure effects: an introduction to mediation analysis. *Seminars in Thoracic and Cardiovascular Surgery*, S1043-0679 (21), 00486-X.

SELECTED INVITED PRESENTATIONS
(*Indicates a student co-author, ‡indicates authors who contributed equally)

1. **Rijnhart, J. J. M.** (2022, June). *Multiverse analysis: a method to assess the robustness of effect estimates*. Invited presentation at the Amsterdam Institute for Global Health and Development, Amsterdam, the Netherlands.

2. **Rijnhart, J. J. M.** (2021, November). *Multiverse analysis: a method to assess the robustness of effect estimates*. Invited tutorial and workshop at the Amsterdam Public Health Research Institute, Amsterdam, the Netherlands (online).

3. **Rijnhart, J. J. M.** (2021, September). *The similarities and differences between causal and traditional mediation analysis for models with a binary outcome*. Invited presentation at the Department of Cancer Epidemiology, Netherlands Cancer Institute, Amsterdam, the Netherlands (online).

4. **Rijnhart, J. J. M.** (2020, September). *The similarities and differences between causal and traditional mediation analysis for models with a binary outcome.* Invited presentation at the Department of Epidemiology and Data Science, Amsterdam UMC, Amsterdam, the Netherlands (online).

5. **Rijnhart, J. J. M.** (2019, April). *Non-collapsibility in mediation analysis with a binary outcome.* Invited presentation at the weekly lab-meeting of the Research in Prevention Laboratory, Department of Psychology, Arizona State University, Tempe, USA.

6. **Rijnhart, J. J. M.** (2018, September & October). *Mediatie analyse* [Mediation analysis]. Two invited lectures at the Amsterdam Rehabilitation Research Center Reade, Amsterdam, the Netherlands.

7. **Rijnhart, J. J. M.** (2018, March). *A short introduction into statistical mediation analysis*. Invited presentation at the monthly PhD-meeting of the Longitudinal Aging Study Amsterdam, Amsterdam, the Netherlands.

8. Heymans, M. W. & **Rijnhart, J. J. M.** (2017, November). *Statistical mediation analysis.* Invited presentation at the 2nd annual meeting of the Amsterdam Public Health Research Institute, Amsterdam, the Netherlands.

9. **Rijnhart, J. J. M.** (2017, September). *Mediatie analyse: een blended learning cursus* [Mediation analysis: a blended learning course]. Invited presentation at Samenwerkende Universitaire Reken Faciliteiten (SURF), Utrecht, the Netherlands.

SELECTED PRESENTATIONS AND POSTERS
(*Indicates a student co-author)

1. Valente, M. J., Pang, J., & **Rijnhart, J. J. M.** (2024, May). *Causal mediation methods for N-of-1 interrupted time series designs.* Paper presented at the 32nd Annual Meeting of the Society for Prevention Research, Washington DC, United States of America.

2. *Holthuijsen, D., **Rijnhart, J. J. M.**, Van Roekel, E. H., Bours, M. J. L., Ueland, P. M., Weijenberg, M. P., & Eussen, S. J. P. M. (2024, May). *The mediating role of the kynurenine pathway in longitudinal associations between dietary intake and quality of life in colorectal cancer survivors up to 12 montsh post-treatment.* Poster presented at the 48th Dutch Epidemiology Conference (WEON), Zeist, the Netherlands.

3. **Rijnhart, J. J. M.** & Valente, M. J. (2023, June). *Parallel multiple mediator models may lead to wrong conclusions on the relative importance of mediators when mediators are causally ordered.* Paper presented at the 31st Annual Meeting of the Society for Prevention Research, Washington DC, United States of America.

4. Valente, M. J. & **Rijnhart, J. J. M.** (2023, June). *A simulation-based appraoch for estimating moderated treatment effects in health disparities research.* Paper presented at the 31st Annual Meeting of the Society for Prevention Research, Washington DC, United States of America.

5. Valente, M. J., **Rijnhart, J. J. M.**, Smyth, H. L., Muniz, F. B., & MacKinnon, D. P. (2023, February). *Causal Mediation Programs in R, Mplus, SAS, SPSS, and Stata.* Paper presented at the Conference for Statistical Practice, San Francisco, CA, United States of America.

6. *Mank, A., Van Maurik, I. S., Van Harten, A. C., Teunissen, C. E., Berkhof, J., Van der Flier, W. M., & **Rijnhart, J. J. M.** (2022, October). *Mobility is a crucial factor for maintaining life satisfaction in Alzheimer's disease.* Paper presented at the 32nd Alzhiemer Europe Conference, Bucharest, Romania (online).

7. *Mank, A., **Rijnhart, J. J. M.**, Van Maurik, I. S., Jönsson, L., Handels, R., Bakker, E. D., Van Harten, A. C., Teunissen, C. E., Van Berckel, B. N. M., Berkhof, J., & Van der Flier, W. M. (2022, July). *A longitudinal study on quality of life along the spectrum of Alzheimer's disease.* Paper presented at the Alzheimer's Association International Conference (AAIC), San Diego, CA, USA.

2. Pan, K.-Y., Van Tuijl, L., Basten, M., **Rijnhart, J. J. M.**, Portengen, L., Graeff, A., Dekker, J., Geerlings, M. I., Hoogendoorn, A., Ranchor, A. V., Vermeulen, R., Voogd, A., the PSY-CA consortium, & Lamers, F. (2022, June). *The mediation of health behaviors in the association of depression and anxiety with the risk of cancer: An individual participant data meta-analysis.* Poster presented at the 46th annual Dutch Epidemiology Conference (WEON), Nijmegen, the Netherlands.

3. **Rijnhart, J. J. M.**, Valente, M. J., Smyth, H. L., & MacKinnon, D. P. (2021, July). *Correspondence between causal and traditional mediation analysis for models with binary mediator and outcome variables.* Paper presented at the 9th European Congress of Methodology (EAM), Valencia, Spain (online).

4. **Rijnhart, J. J. M.**, Twisk, J. W. R., Deeg, D. J. H., & Heymans, M. W. (2021, June). *Assessing the robustness of mediation analysis results using multiverse analysis.* Paper presented at the 45th annual Dutch Epidemiology Conference (WEON), Amsterdam, the Netherlands (online).

5. Schuster, N. A., Twisk, J. W. R., Ter Riet, G., Heymans, M. W., & **Rijnhart, J. J. M.** (2021, June). *Noncollapsibility in logistic regression: the problem you never knew you had.* Poster presented at the 45th annual Dutch Epidemiology Conference (WEON), Amsterdam, the Netherlands (online).

6. Van Zutphen, E. M., Kok, A., Rhebregen, D., **Rijnhart, J. J. M.**, Huisman, M., & Beekman, A. (2021, March). *Depressive symptoms, cardiovascular morbidity and loneliness have risk increasing effects on one another in aging, a 13-year follow-up study among Dutch older adults.* Poster presented at the annual meeting of the American Association for Geriatric Psychiatry (AAGP) Nijmegen, the Netherlands (online).

7. **Rijnhart, J. J. M.**, Valente, M. J., & MacKinnon, D. P. (2019, June). *Total effect decomposition in mediation analysis with a continuous mediator and a binary outcome.* Paper presented at the 44th annual Dutch Epidemiology Conference (WEON), Groningen, the Netherlands.

8. Valente, M. J., **Rijnhart, J. J. M.**, & MacKinnon, D. P. (2019, May). *Causal direct and indirect effects: The link between traditional logistic regression and the potential outcomes framework for binary outcomes.* Paper presented at the 27th annual meeting of the Society for Prevention Research (SPR), San Francisco, CA, USA.

9. **Rijnhart, J. J. M.**, Valente, M. J., & MacKinnon, D. P. (2019, May). *Total effect decomposition in mediation analysis with a binary outcome.* Paper presented at the 27th annual meeting of the Society for Prevention Research (SPR), San Francisco, CA, USA.

10. **Rijnhart, J. J. M.**, Valente, M. J., MacKinnon, D. P., Twisk, J. W. R., & Heymans, M. W. (2018, November). *Causal direct and indirect effects: the link between traditional logistic regression and the potential outcomes framework for binary outcomes.* Poster presented at the 3rd annual meeting of the Amsterdam Public Health (APH) Research Institute, Amsterdam, the Netherlands.

11. Hoogendijk, E. O., **Rijnhart, J. J. M.**, Robitaille, A., Skoog, J., Van den Hout, A., Hofer, S. M., & Muniz-Terrera, G. (2018, November). *Gait speed as a predictor of transition into cognitive impairment.* Paper presented at the annual meeting of the Gerontological Society of America (GSA), Bosten, MA, USA.

12. Robitaille, A., Muniz-Terrera, G., Van den Hout, A., Hoogendijk, E. O., Koval, A. V., **Rijnhart, J. J. M.**, Skoog, J., & Hofer, S. M. (2018, November). *Does cognitive lifestile matter? Examining transitions between cognitive states using MSM across four studies.* Paper presented at the annual meeting of the Gerontological Society of America (GSA), Bosten, MA, USA.

13. Muniz-Terrera, G., Robitaille, A., Van den Hout, A., Mariano Machado, R., Cukic, I., Hoogendijk, E., Koval, A. V., Piccinin, A. M., **Rijnhart, J. J. M.**, Skoog, J., Deary, I. J., Johansson, B., Singh-Manoux, A., Skoog, I., Huisman, M., & Hofer, S. M. (2018, July). *Factors and transitions between cognitive states: a multi-study approach using data from six international longitudinal studies of ageing.* Paper presented at the Alzheimer's Association International Conference (AAIC), Chicago, IL, USA.

14. **Rijnhart, J. J. M.**, Twisk, J. W. R., Robitaille, A., Huisman, M., & Heymans, M. W. (2018, June). *Comparison of methods for longitudinal mediation analysis using cognitive health data.* Paper presented at the 51st annual meeting of the Society for Epidemiologic Research (SER), Baltimore, MD, USA.

15. Bosman, L.C., **Rijnhart, J. J. M.**, Twisk, J. W. R., & Heymans, M. W. (2018, June). *Comparison of methods for estimating treatment effects on observational data.* Poster presented at the 51st annual meeting of the Society for Epidemiologic Research (SER), Baltimore, MD, USA.

16. **Rijnhart, J. J. M.**, Twisk, J. W. R., Eekhout, I., & Heymans, M. W. (2017, September). *Comparison of methods for the statistical mediation analysis of models with a dichotomous outcome variable.* Poster presented at the 11th annual Science Exchange Day of the VU Medical Center, Amsterdam, the Netherlands.

17. **Rijnhart, J. J. M.**, Twisk, J. W. R., Eekhout, I., & Heymans, M. W. (2017, August). *Comparison of methods for the statistical mediation analysis of models with a dichotomous outcome variable.* Poster presented at the 21st World Congress of Epidemiology, Tokyo-Yokohama, Japan.

18. Robitaille, A., Van den Hout, A., Machado, R. J., Cukic, I., Koval, A., **Rijnhart, J. J. M.**, Skoog, J., & Muniz-Terrera, G. (2017, July). *Transitions across cognitive states among older adults and education: a multi-state survival model.* Paper presented at the 21st International Association of Gerontology and Geriatrics (IAGG) World Congress, San Francisco, CA, USA.

19. **Rijnhart, J. J. M.**, Twisk, J. W. R., De Boer, M. R., & Heymans, M. W. (2015, September). *Comparison of methods for mediation analysis using two cross-sectional data examples with a continuous outcome and mediator variable.* Paper presented at the Methods in Epidemiology symposium, Leuven, Belgium.

ROUNDTABLES AND SPECIAL INTEREST GROUPS

2024	Special interest group meeting: Advancing lifespan prevention science.	Role: co-convener Other co-coveners: O'Sullivan, K.; Weaver, R.	Online meeting organized by the Society for Prevention Research.
2024	Roundtable "Statistical innovations in collaborative prevention research: adventures in matching methods to research questions".	Role: Discussant Chair: Smyth, H. L. Other discussants: Schmiedge, S., Coffman, D., Masyn, K., & Bayless, S.	32nd Annual Meeting of the Society for Prevention Research, Washington DC, United States of America.
2024	Special interest group meeting: Advancing lifespan prevention science.	Role: co-convener Convener: Weaver, R. Other co-covener: O'Sullivan, K.	32nd Annual Meeting of the Society for Prevention Research, Washington DC, United States of America.

STUDENT ADVISING

Doctoral Students

2022-present	Jinyong Pang	Committee member	PhD in Biostatistics, University of South Florida
2022-present	Fahad Mansuri	Committee member	PhD in Epidemiology, University of South Florida
2021-present	Arenda Mank	Co-advisor	Faculty of Medicine, VU University, Amsterdam, the Netherlands
2023-2024	Adriana Campos	Committee member	PhD in Epidemiology, University of South Florida
2020-2022	Noah Schuster	Co-advisor	Faculty of Medicine, VU University, Amsterdam, the Netherlands

Master Students

2023-present	Brooke Yost	Committee member	MSPH in Epidemiology, University of South Florida, Tampa, USA
2023	Lenka Pacnerova	Committee member	MSc Industrial Engineering and Management (Healthcare Technology and Management), University of Twente, Enschede, the Netherlands
2022-2023	Sara Robinson	Co-major professor	MSPH in Epidemiology, University of South Florida, Tampa, USA
2020-2021	Emma Vermeulen	Committee member	MSc in Epidemiology, Amsterdam University Medical Center, Amsterdam, the Netherlands

Undergraduate Students

2017	Lisa van Bentum	Co-advisor	Bachelor's program in Health Sciences, VU University, Amsterdam, the Netherlands
2017	Marjolein Donker	Co-advisor	Bachelor's program in Health Sciences, VU University, Amsterdam, the Netherlands
2017	Henriëtte Meijer	Co-advisor	Bachelor's program in Health Sciences, VU University, Amsterdam, the Netherlands

International Visiting Scholars

2024	Daniëlle Holthuijsen	Mentor	PhD student from Maastricht University visiting the College of Public Health, University of South Florida, Tampa, USA.

TEACHING EXPERIENCE

Courses taught

2024-present	PHC 6943 Integrated Learning Experience (ILE)	Master in Public Health, University of South Florida, Tampa, USA.
2024-present	PHC 6949 Applied Practice Experiences (APE)	Master in Public Health, University of South Florida, Tampa, USA.
2023-present	PHC 6010 Epidemiology Methods I	Master (of Science) in Public Health, University of South Florida, Tampa, USA.
2023	PHC 6971 Thesis: MSPH	Master of Science in Public Health, University of South Florida, Tampa, USA.
2018-2022	K82 Mediation analysis	Master's program in Epidemiology, Amsterdam University Medical Center, Amsterdam, the Netherlands

Guest lectures

2024	Guest lecture titled "Introduction to Mediation Analysis"	GEY 6403 Multivariate Statistics in Aging Research, University of South Florida, Tampa, USA.
2023	Guest lecture titled "Introduction to Mediation Analysis"	Research Master in Clinical and Developmental Psychology, VU University, Amsterdam, the Netherlands
2023	Guest lecture titled "Introduction to Mediation Analysis"	PHC 7045: Practical Issues in Epidemiology, University of South Florida, Tampa, USA.
2022	Panel on Faculty Searches	HSC 7268: Professional Foundations III, University of South Florida, Tampa, USA
2020-2021	Two 3-hour lectures on mediation analysis	Minor Medical Research to Clinical Practice, VU University, Amsterdam, the Netherlands
2016-2019	One 3-hour lecture on mediation analysis	Minor Medical Research to Clinical Practice, VU University, Amsterdam, the Netherlands

Curriculum development

2020-2022	Blended learning coordinator	Master's program in Epidemiology, Amsterdam University Medical Center, Amsterdam, the Netherlands

| 2017-2020 | Coordinator of three SPSS computer labs (e-learning modules) in the course Medical Scientific Research I | Bachelor's program in Medicine, VU University, Amsterdam, the Netherlands |
| 2017 | Replaced the educational coordinator of all methodology courses in the bachelor's program in Medicine during her pregnancy and maternity leave | Bachelor's program in Medicine, VU University, Amsterdam, the Netherlands |

Teaching assistant positions

2015-2021	Medical Scientific Research II	Bachelor's program in Medicine, VU University, Amsterdam, the Netherlands
2020	K73 Longitudinal Data Analysis	Master's program in Epidemiology, Amsterdam University Medical Center, Amsterdam, the Netherlands
2014-2020	Medical Scientific Research I	Bachelor's program in Medicine, VU University, Amsterdam, the Netherlands
2016-2018	Minor Medical Research to Clinical Practice	Bachelor's program in Medicine, VU University, Amsterdam, the Netherlands
2016	Physician and Patient IV	Bachelor's program in Medicine, VU University, Amsterdam, the Netherlands
2015, 2016	Biostatistics	Master's program in Cardiovascular Research & Master's program in Oncology, VU University, Amsterdam, the Netherlands
2015	R01 SPSS	Master's program in Epidemiology, Amsterdam University Medical Center, Amsterdam, the Netherlands
2014, 2017	V30 Regression Analysis	Master's program in Epidemiology, Amsterdam University Medical Center, Amsterdam, the Netherlands
2014	Epidemiology and Biostatistics II	Bachelor's program in Health Sciences, VU University, Amsterdam, the Netherlands
2014	Epidemiology and Biostatistics III	Bachelor's program in Health Sciences, VU University, Amsterdam, the Netherlands
2014	Methodology I	Bachelor's program in Health and Life Sciences, VU University, Amsterdam, the Netherlands

2014	Methodology III	Bachelor's program in Health and Life Sciences, VU University, Amsterdam, the Netherlands
2013	Methodology and Applied Biostatistics I	Pre-master's program in Health Sciences, VU University, Amsterdam, the Netherlands
2013	Methodology and Applied Biostatistics II	Pre-master's program in Health Sciences, VU University, Amsterdam, the Netherlands
2013	Methodology II	Bachelor's program in Health and Life Sciences, VU University, Amsterdam, the Netherlands
2013	Epidemiology and Biostatistics I	Bachelor's program in Health Sciences, VU University, Amsterdam, the Netherlands

SERVICE

Committees

2024-present	Co-chair of the Poster Contest Subcommittee for the Poster Contest at the Annual Meeting of the Society for Prevention Research	Early Career Preventionist Network
2023-2024	Member of the Poster Contest Subcommittee for the Poster Contest at the Annual Meeting of the Society for Prevention Research	Early Career Preventionist Network
2023-present	Member of the Early Career Preventionist Network (ECPN) Steering Committee	Early Career Preventionist Network
2021-2022	Faculty member of the educational committee of the Master's program in Epidemiology	Amsterdam University Medical Center, Amsterdam, the Netherlands
2020-2022	Chair of the monthly Methodology Meetings of the research group on Epidemiology of Aging and Longitudinal Modelling	Amsterdam University Medical Center, Amsterdam, the Netherlands
2016-2020	Chair of the monthly meetings of the research group on Longitudinal Modelling	Amsterdam University Medical Center, Amsterdam, the Netherlands
2013-2014	Student member of the educational committee of the Master's program in Health Sciences	VU University, Amsterdam, the Netherlands

Conference service

2022-2024	Abstract reviewer	Annual Meeting of the Society for Prevention Research, Washington DC, United States

2021	Chair of the Advanced Topics in Mediation Analysis symposium	9th European Congress of Methodology (EAM), Valencia, Spain (online)
2021	Co-chair of the Methodology I session	45th annual Dutch Epidemiology Conference (WEON), Amsterdam, the Netherlands (online)
2021	Chair of Poster Award Session 2	45th annual Dutch Epidemiology Conference (WEON), Amsterdam, the Netherlands (online)
2021	Member of the jury for the Poster Award	45th annual Dutch Epidemiology Conference (WEON), Amsterdam, the Netherlands (online)
2017	Volunteer	5th World Conference on Research Integrity, Amsterdam, the Netherlands

University service

2024-Present	Director of the Graduate Certificate in Epidemiology of Infectious Diseases	University of South Florida, Tampa, United States
2024-Present	Director of the Graduate Certificate in Pharmacoepidemiology	University of South Florida, Tampa, United States
2024-Present	Director of the Graduate Certificate in Concepts & Tools of Epidemiology	University of South Florida, Tampa, United States
2023, 2024	Poster Judge	2023 USF Health Research Day, University of South Florida, Tampa, United States
2023, 2024	Abstract Reviewer	Graduate Student Research Symposium, University of South Florida, Tampa, United States

Service to the community

2024	Gave a webinar on my Alzheimer's Association funded project.	Alzheimer's Association Florida Gulf Coast Chapter
2023, 2024	Research ambassador at the #AlzFunded booth.	Walk to end Alzheimer's Tampa, Alzheimer's Association Florida Gulf Coast Chapter

Ad hoc reviewer

Annals of Epidemiology; Annals of Internal Medicine; Behavior Research Methods; BMC Medical Research Methodology; BMJ Open; British Medical Journal; Communications Medicine; Diabetologia *(Statistics reviewer)*; Epidemiologic Methods; Evaluation & the Health Professions; Frontiers in Education; Frontiers in Epidemiology; Frontiers in Psychology; Gerontology; Health Services and Outcomes Research Methodology; Journal of Alzheimer's Disease; Journal of Clinical Epidemiology; Journal of Orthopaedic & Sports Physical Therapy; Journal of the Royal Statistical Society: Series C; Observational Studies; PLOS ONE; Prevention Science; Psychological Trauma: Theory, Research, Practice and Policy; The Lancet Public Health; SAGE open; Statistical Methods & Applications; Statistics and Computing

Grant proposal reviewer

2023-present: Reviewer for multiple Alzheimers Association Research Grant programs - Alzheimer's Association

Memberships

2024-present	Member	ISTAART
2023-present	Member	Gerontological Society of America
2021-present	Member	Society for Epidemiologic Research
2020-present	Member	Dutch Epidemiological Society
2019-present	Member	Fulbrighter, the networking platform for Fulbright alumni and grantees
2018-present	Member	Society for Prevention Research
2017-2022	Member	Netherlands Society for Statistics and Operations Research

HONORS AND AWARDS

2024	Outstanding Research Achievement Award	University of South Florida, Tampa, FL, USA.
2024, 2023	Included in the Stanford/Elsevier list of top 2% scientists globally	Stanford/Elsevier
2022	Acknowledged as a Key Referee	Diabetologia
2019	Nominated for the Oral Presentation Award	44th annual Dutch Epidemiology Conference (WEON), Groningen, the Netherlands
2016	Nominated for the Professor H.W. Lambers Prize	Erasmus University, Rotterdam, the Netherlands
2014	Cum Laude M.Sc. in Health Sciences	VU University, Amsterdam, the Netherlands
2014	Nominated for the Student Oral Presentation Award	39th annual Dutch Epidemiology Conference (WEON), Leiden, the Netherlands

PROFESSIONAL EXPERIENCE

2015-2022	Member of the statistical consultancy pool (E&B Xpert) of the department of Epidemiology and Data Science	Amsterdam University Medical Center, Amsterdam, the Netherlands
2018, 2019	Visiting research scholar. I collaborated with Dr. David MacKinnon on the evaluation of causal mediation analysis methods for mediation models with binary variables.	Arizona State University, Tempe, AZ, USA

| 2011-2012 | Research intern on a qualitative research project on lifestyle-oriented prevention with a patient-centered approach. For this project I conducted and multiple interviews. | Windesheim University of Applied Sciences, Zwolle, the Netherlands |

CONTINUED PROFESSIONAL DEVELOPMENT

Research

2024	Analysis of Complex Survey Data	Statistical Horizons
2023	Pre-conference workshop: Meta-analysis methods for prevention scientists: tools for understanding and investigating variation in prevention intervention effects.	31st Annual Meeting of the Society for Prevention Research, Washington DC, United States
2022	Social / Behavioral Investigators and Key Personnel	Collaborative Institutional Training Initiative (CITI Program)
2022	NIH Grant Writing workshop	College of Public Health, University of South Florida, Tampa, United States of America
2022	Early Career Awards Workshop	University of South Florida, Tampa, United States of America
2022	Missing Data	Statistical Horizons
2019	Single Subject Causal Mediation Analysis (selected participant)	Lorentz Center, Leiden, the Netherlands
2018	Latent Growth Mixture Modeling (selected participant)	Integrative Analysis of Longitudinal Studies of Aging and Dementia Research Network (IALSA), State College, PA, USA
2018	Multistate Modeling III (selected participant)	Integrative Analysis of Longitudinal Studies of Aging and Dementia Research Network (IALSA), Montreal, Canada
2017	Basic and Advanced Multilevel Modeling with Mplus	Global School in Empirical Research Methods, St. Gallen, Switzerland
2017	Research Integrity	Amsterdam University Medical Center, Amsterdam, the Netherlands
2016	Multistate Modeling II (selected participant)	Integrative Analysis of Longitudinal Studies of Aging and Dementia Research Network (IALSA), Edinburgh, Scotland
2016	Multistate Modeling I (selected participant)	Integrative Analysis of Longitudinal Studies of Aging and Dementia Research Network (IALSA), Amsterdam, the Netherlands
2015	Structural Equation Modeling	Radboud University, Nijmegen, the Netherlands
2015	Chronic Disease	University of Cambridge, Cambridge, United Kingdom

Teaching

2023	Mental Health First Aid	University of South Florida, Tampa, United States of America
2023	Workshop Chat-GPT: ReImagining Learning and Teaching	Center for Innovative Teaching and Learning, University of South Florida, Tampa, United States of America
2022	Senior Teaching Qualification	VU University, Amsterdam, the Netherlands

2022 — *A one-year course for senior teachers. The course was focused on educational innovation and the development of coordination and management skills.*

2017	Basic Teaching Qualification	Amsterdam University Medical Center, Amsterdam, the Netherlands

2017 — *An 8 month course focused on the development of basic didactic skills, including the development of an individual teaching style, supervision of students, and course (re)design.*

2017	Teaching in English	Taalcentrum, VU University, Amsterdam, the Netherlands

2017 — *A course of eight 2.5 hour sessions with the goal to develop a level of oral proficiency in order to provide clear lectures and tutorials in English.*

SOFTWARE SKILLS

Stata, SPSS, Rstudio, M*plus*, EndNote

LANGUAGES

English — Professional fluency (CEFR: C2)

Dutch — Native speaker (CEFR: C2)

DISSERTATION

Title	Comparison of methods for statistical mediation analysis within epidemiological research
Approved	April 28th, 2020
Defended	March 25th, 2021 (oral defense was postponed to the spring of 2021 due to the COVID19 pandemic)
Advisors	Dr. Jos Twisk and Dr. Martijn Heymans
Committee	Dr. Joline Beulens, Dr. Saskia Le-Cessie, Dr. Harry Ganzeboom, Dr. Rolf Groenwold, Dr. David MacKinnon, and Dr. Maartje van Stralen,
Institution	VU University, Amsterdam, The Netherlands