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A compass towards equity: a data analysis framework to capture children's behaviour in the playground context

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List of Publications

This dissertation is based on the following publications:

Journal Papers

- [J1] M. Nasri, Y.-T. Tsou, A. Koutamanis, M. Baratchi, S. Giest, D. Reidsma, and C. Rieffe, "A novel data-driven approach to examine children's movements and social behaviour in schoolyard environments," *Children*, vol. 9, no. 8, p. 1177, 2022
- [J2] M. Nasri, M. Baratchi, Y.-T. Tsou, S. Giest, A. Koutamanis, and C. Rieffe, "A novel metric to measure spatio-temporal proximity: a case study analyzing children's social network in schoolyards," *Applied Network Science*, vol. 8, no. 1, p. 50, 2023
- [J3] M. Nasri, Z. Fang, M. Baratchi, G. Englebiene, S. Wang, A. Koutamanis, and C. Rieffe, "A gnn-based architecture for group detection from spatio-temporal trajectory data," in *International Symposium on Intelligent Data Analysis*, pp. 327–339, Springer, 2023
- [J4] M. Nasri, T. Maliappis, C. Rieffe, and M. Baratchi, "T-dante: Detecting group behaviour in spatio-temporal trajectories using context information," in *International Symposium on Intelligent Data Analysis*, pp. 28–39, Springer, 2024
- [J5] Y.-T. Tsou, M. Nasri, B. Li, E. M. Blijd-Hoogewys, M. Baratchi, A. Koutamanis, and C. Rieffe, "Social connectedness and loneliness in school for autistic and allistic children," *Autism*, p. 13623613241259932, 2024
- [J6] (*under review*) M. Nasri, M. Baratchi, A. Koutamanis, C. Rieffe, "SiamCircle: Trajectory Representation Learning in Free Settings", *IDA*, 2025.

Conference Paper

- [C1] M. Nasri, S. Giest, Y.-T. Tsou, M. Baratchi, A. Koutamanis, and C. Rieffe, "Role of movement data in creating inclusive school settings for students," in *Data for Policy*, 2022

Other Publications

- [O1] A. Eichengreen, M. van Rooijen, L.-M. van Klaveren, M. Nasri, Y.-T. Tsou, A. Koutamanis, M. Baratchi, and C. Rieffe, "The impact of loose-parts-play on schoolyard social participation of children with and without disabilities: A case study," *Child: care, health and development*, vol. 50, no. 1, p. e13144, 2024
- [O2] A. Eichengreen, Y.-T. Tsou, M. Nasri, L.-M. van Klaveren, B. Li, A. Koutamanis, M. Baratchi, E. Blijd-Hoogewys, J. Kok, and C. Rieffe, "Social connect-edness at the playground before and after covid-19 school closure," *Journal of applied developmental psychology*, vol. 87, p. 101562, 2023
- [O3] R. Laanen, M. Nasri, R. van Dijk, M. Baratchi, A. Koutamanis, and C. Rieffe, "Automated classification of pre-defined movement patterns: A comparison between gnss and uwb technology," *arXiv preprint arXiv:2303.07107*, 2023

Grants

- "SmartPlay: A smartwatch software for measuring play with a data-driven, interdisciplinary approach" (2023; 1150 hours of Research Software Engineer support). Assigned by the Netherlands eScience Center to C. Rieffe, Y.T. Tsou, M. Nasri, E.M.A. Blijd-Hoogewys, A. Koutamanis, and B. Li.

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