

Hans Fredrik Sunde, PhD

Postdoctoral researcher

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Education

- **PhD in Psychology**, University of Oslo, Oslo, Norway, 2024
 - Sunde, H. F. (2024). *Reproduction of socioeconomic differences and mental health across generations* [Doctoral dissertation, University of Oslo]. Oslo, Norway. <http://hdl.handle.net/10852/110758>
 - Main Supervisor: Dr. Fartein Ask Torvik
 - Co-Supervisor: Dr. Espen Moen Eilertsen
- **MSc in Psychology**, Norwegian University of Science and Technology, Trondheim, Norway, 2019.
 - Supervisor: Dr. Robert Biegler
- **BSc in Psychology**, Norwegian University of Science and Technology, Trondheim, Norway, 2017.

Positions Held

- 03.2025 – present:** **Researcher (20%)**, Department of Psychology, University of Oslo, Oslo, Norway.
- 10.2023 – present:** **Postdoctoral Researcher**, Centre for Fertility and Health, Norwegian Institute of Public Health, Oslo, Norway.
- 05.2023 – 06.2023:** **Researcher**, Department of Special Needs Education, University of Oslo, Oslo, Norway
- 08.2020 – 09.2023:** **Doctoral Researcher**, Centre for Fertility and Health, Norwegian Institute of Public Health, Oslo, Norway.
- 06.2019 – 06.2020:** **Research Assistant**, Department of Psychology, Norwegian University of Science and Technology, Trondheim, Norway.

Awards

- 2024: Outstanding Associate Member Poster Presentation Award**, Behavior Genetics Association
- 2023: Outstanding Associate Member Oral Presentation Award**, Behavior Genetics Association

Publications

As first author:

- Sunde, H.F.**, Eilertsen, E. M., Kinge, J.K., Kleppestø, T.H., Nordmo, M., Caspi, A., Moffitt, T., & Torvik, F.A. (In Press) Parental income and psychiatric disorders from age 10 to 40: a genetically informative population study. Accepted at *Journal of Child Psychology and Psychiatry*, Preprint at BioRxiv: <https://doi.org/10.1101/2024.10.21.24315865>
- Sunde, H. F.**, Eilertsen, E. M., & Torvik, F. A. (2025). Understanding indirect assortative mating and its intergenerational consequences for educational attainment. *Nature Communications*, 16(1), 5264. <https://doi.org/10.1038/s41467-025-60483-0>
- Sunde, H. F.**, Eftedal, N. H., Cheesman, R., Corfield, E. C., Kleppestø, T. H., Seierstad, A. C., Ystrom, E., Eilertsen, E. M., & Torvik, F. A. (2024). Genetic similarity between relatives provides evidence on the presence and history of assortative mating. *Nature Communications*, 15(1), 2641. <https://doi.org/10.1038/s41467-024-46939-9>
- Sunde, H. F.**, Kleppestø, T. H., Gustavson, K., Nordmo, M., Reme, B. A., & Torvik, F. A. (2022). The ADHD deficit in school performance across sex and parental education: A prospective sibling-comparison register study of 344,152 Norwegian adolescents. *JCPP Advances*. <https://doi.org/10.1002/jcv2.12064>

As co-author:

- van Bergen, E., **Sunde, H. F.**, Rowland, C. F., Melby-Lervåg, M., & Torvik, F. A. (2025, April 12). Why educational inequality runs in families: Genetics matter more than environment. Preprint at OSF: https://doi.org/10.31234/osf.io/rehdj_v1
- Eftedal, N. H., Eilertsen, E. M., **Sunde, H. F.**, Kleppestø, T. H., Ystrom, E., & Czajkowski, N. O. (2025). Beyond additive genetic effects: Explaining family resemblance in school performance across millions of pairs of Norwegian relatives. *Proceedings of the National Academy of Sciences*, 122(25), e2419627122. <https://doi.org/10.1073/pnas.2419627122>
- Nordmo, M., **Sunde, H. F.**, Kleppestø, T. H., Nordmo, M., Caspi, A., Moffitt, T. E., & Torvik, F. A. (2025). Cognitive Abilities and Educational Attainment as Antecedents of Mental Disorders: A Total Population Study of Males. *Psychological Science*, 09567976251347221. <https://doi.org/10.1177/09567976251347221>
- Skirbekk, V., Blekesaune, M., & **Sunde, H. F.** (2025). Personality and fertility dynamics in Norway across four decades – Findings from the HUNT survey. *Personality and Individual Differences*, 233, 112862. <https://doi.org/10.1016/j.paid.2024.112862>
- Andersen, M., **Sunde, H. F.**, Hart, R., & Torvik, F. (Preprint). Parenthood, Mental Disorders, and Symptoms Through Adulthood: A Total Population Study. Preprint at MedRxiv: <https://doi.org/10.1101/2024.10.29.24315908>
- Torvik, F. A., **Sunde, H. F.**, Cheesman, R., Eftedal, N. H., Keller, M. C., Ystrom, E., & Eilertsen, E. M. (2024). Non-random mating patterns within and across education and mental and somatic health. *Nature Communications*, 15(1), 10505. <https://doi.org/10.1038/s41467-024-54966-9>
- Caspi, A., Houts, R. M., Moffitt, T. E., Richmond-Rakerd, L. S., Hanna, M. R., **Sunde, H. F.**, & Torvik, F. A. (2024). A nationwide analysis of 350 million patient encounters reveals a high volume of mental-health conditions in primary care. *Nature Mental Health*. <https://doi.org/10.1038/s44220-024-00310-5>
- Nordmo, M., Kleppestø, T. H., Reme, B. A., **Sunde, H. F.**, Von Soest, T., & Torvik, F. A. (2024). The diminishing association between adolescent mental disorders and educational performance from 2006–2019. *JCPP Advances*. <https://doi.org/10.1002/jcv2.12239>
- Landmark, L., **Sunde, H. F.**, Fors, E. A., Kennair, L. E. O., Sayadian, A., Backelin, C., & Reme, S. E. (2024). Associations between pain intensity, psychosocial factors, and pain-related disability in 4285 patients with chronic pain. *Scientific Reports*, 14(1), 13477. <https://doi.org/10.1038/s41598-024-64059-8>
- Nordmo, M., Kleppestø, T., **Sunde, H. F.**, Flatø, M., Demange, P., & Torvik, F. A. (2023). The association between parental internalizing disorders and child school performance. *npj Science of Learning*, 8(1). <https://doi.org/10.1038/s41539-023-00182-x>
- Kleppestø, T. H., Eilertsen, E. M., van Bergen, E., **Sunde, H. F.**, Zietsch, B., Nordmo, M., Eftedal, N. H., Havdahl, A., Ystrom, E., & Torvik, F. A. (2023). Intergenerational transmission of ADHD behaviors: genetic and environmental pathways. *Psychological Medicine*, 1-9. <https://doi.org/10.1017/S003329172300315X>
- Lisøy, R. S., Pfuhl, G., **Sunde, H. F.**, & Biegler, R. (2022). Sweet spot in music—Is predictability preferred among persons with psychotic-like experiences or autistic traits? *PLOS ONE*, 17(9), e0275308. <https://doi.org/10.1371/journal.pone.0275308>

Professional activities

Research Stays:

September – November 2024: Complex Trait Genetics Lab,
Center for Neurogenomics and Cognitive Research, VU Amsterdam
(Host: Prof. Dr. Dorret Boomsma)

Workshops:

International Statistical Genetics Workshop 2024 (Boulder, CO).

VU Amsterdam Summer School 2022: Nature and Nurture: Twin Research and Human Genetics

International Statistical Genetics Workshop 2021 (Online)

Conference presentations:

Sunde, H.F., (2025) Combining genetic and phenotypic data in extended families to investigate indirect assortative mating and gene-environment correlations. *Behavior Genetics Association Annual Meeting (Atlanta 2025)*. Oral presentation

Sunde, H.F., (2025) Understanding indirect assortative mating and its intergenerational consequences. *European Social Science Genetics Network (Bristol 2025)*. Oral presentation

Sunde, H.F., (2024) Rethinking partner similarity: Understanding indirect assortative mating and its consequences for educational attainment. *Behavior Genetics Association Annual Meeting (London 2024)*. Poster presentation

Sunde, H.F., (2024) Rethinking indirect assortative mating. *International Statistical Genetics Workshop (Boulder, CO 2024)*. Poster presentation

Sunde, H.F., (2024) Genetic similarity between relatives provides evidence on the presence and history of assortative mating. *Human Behavior and Evolution Society (Aarhus 2024)*. Oral presentation

Sunde, H.F., (2023) Assortative mating increases genetic similarity among distant relatives: Evidence from polygenic scores. *Behavior Genetics Association Annual Meeting (Murcia 2023)*. Oral presentation

Sunde, H.F., (2023) Parental income and mental disorders from age 10 to 35: a genetically informative population study. *Norwegian Social and Community Psychology Conference (Trondheim 2023)*. Oral presentation

Sunde, H.F., (2022) Skoleforløp blant barn med ADHD. En prospektiv register-og søskenstudie av norske tenåringer. *ADHD Forskningsnettverk NevSom (Trondheim 2022)*. Oral presentation

Invited talks:

2025:

19/05/2025: Phenome-wide analysis of half siblings suggests maternal effects on adult health are common. *BIOSFER Scientific Seminars (Online)*.

15/05/2025: Phenome-wide analysis of half siblings suggests maternal effects on adult health are common. *8th Annual CeFH Symposium (Oslo)*.

28/01/2025: How to give better presentations: tips, tricks, and some guiding principles. *CeFH Internal Seminar (Noreffjell)*.

17/01/2025: The theory crisis. *CeFH Friday Seminar (Oslo)*.

2024:

09/12/2024: Å forstå indirekte assortativt pardannelse og dets intergenerasjonelle konsekvenser, *Lab Meeting, Sexual Conflict Research Group (Oslo)*.

09/12/2024: Parental income and mental disorders from age 10 to 40, *TTiT Lab Meeting (Trondheim)*.

20/11/2024: Partnerlikhet og sosial ulikhet, *REMENTA Slutteseminar (Oslo)*.

18/11/2024: Understanding indirect assortative mating and its intergenerational consequences. *FlaDD Lab Meeting (Nijmegen)*.

07/11/2024: Understanding indirect assortative mating and its intergenerational consequences. *GENE Amsterdam Research Meeting (Amsterdam)*.

24/09/2024: Parental income and mental disorders from age 10 to 40: a genetically informative population study. *BioPsy colloquium (Amsterdam)*.

11/09/2024: Understanding indirect assortative mating and its intergenerational consequences. *CNCR Seminar (Amsterdam)*.

29/08/2024: Assortative mating: Genetics and partner selection. *Genetics and Social Sciences Conference (Oslo)*.

14/06/2024: ADHD og skoleprestasjoner. *ADHD Norge fagråd (Oslo)*.

29/05/2024: Understanding indirect assortative mating and its intergenerational consequences. *BIOSFER workshop (Sandbjerg)*.

15/05/2024: Understanding indirect assortative mating and its intergenerational consequences. *7th Annual CeFH Symposium (Oslo)*.

16/02/2024: Genetic similarity between relatives provides evidence on the presence and history of assortative mating. *PsychGen Friday Seminar (Oslo)*.

2023:

06/12/2023: Genetic similarity between relatives provides evidence on the presence and history of assortative mating. *Social Science Genetics Seminar (Online)*.
 01/12/2023: Genetic similarity between relatives provides evidence on the presence and history of assortative mating. *CeFH Genetics Friday (Oslo)*.
 21/09/2023: Genetic similarity between relatives provides evidence on the presence and history of assortative mating. *BIOSFER workshop (Rostock)*.
 12/05/2023: ADHD and school performance. *SpedAims Fagprat på Fredag (Oslo)*.
 05/05/2023: Assortative mating strongly increases genetic similarity between distant relatives. *CeFH Genetics Friday (Oslo)*.
 09/03/2023: Kjønn, ADHD, og skoleprestasjoner. *Health Gap Sluttsseminar, Litteraturhuset (Oslo)*.
 02/03/2023: Correlation does not imply causation, even for genetics... *FHI Fagforum (Oslo)*.
 15/05/2023: Assortative mating strongly increases genetic similarity between distant relatives. *6th Annual CeFH Symposium (Oslo)*.

2022:

18/11/2022: Parental income and mental disorders: Using children-of-twins to distinguish genetic and social transmission. *CeFH Genetics Friday (Oslo)*.
 09/10/2022: ADHD og karakterer i ungdomsskolen. *ADHD Norge: Lærerkonferansen 2022 (Bergen)*.
 27/09/2022: ADHD and school performance across sex, parental education, and school subjects. *ACAMH Around the Campfire (Online)*.
 04/05/2022: Mendelian Randomization: Symphony Orchestra or School Band? –Demonstrating breach of assumptions in IV analysis with simulations. *CeFH Instrumental variable & Mendelian Randomization seminars (Oslo)*.
 26/04/2022: The Theory Crisis. *Research Seminar: Personality, Genetics, and Mental Health (Oslo)*.
 08/04/2022: ADHD and school performance across sex, parental education, and school subjects. *CeFH Friday Seminar (Oslo)*.

2021:

16/12/2021: Demonstrating common pitfalls with statistical control. *PhD Network at NIPH Seminar (Oslo)*.
 19/11/2021: What is up with statistical control: When to use, when not to use, and when it's not enough. *CeFH Friday Seminar (Oslo)*.
 29/09/2021: Are highly educated parents good for your mental health?. *4th Annual CeFH Symposium (Oslo)*.

Other activities:

Co-organised the 2025 Oslo [Conference on Social Science and Genetics](#) (15th and 16th of June 2025).

Teaching Experience

External Examiner / Grader, miscellaneous clients

Miscellaneous lectures,

Norwegian University of Science and Technology, Trondheim, Norway, 2020 – 2021

- *Introduction to Behavior Genetics*, Personality Psychology 1, March 2020.
- *The Replication Crisis*, Research Design, March 2020.
- *Statistical Power*, Research Design, March 2020.
- *The Replication Crisis and Statistical Power* (3 lectures), Research Design, January-February 2021

Teaching Assistant / Seminar Leader,

Norwegian University of Science and Technology, Trondheim, Norway, 2018 - 2020

- Weekly seminars, Quantitative Methods (master's level), Fall 2018.
- Weekly seminars, Quantitative Methods (master's level), Fall 2019.
- Full day seminar, Introduction to Stata (for employees), November 2019.
- Teaching assistant, Bachelor's project in developmental psychology, Spring 2020