

Curriculum Vitae

Gitta Lubke

Mailing Address

University of Notre Dame
 Department of Psychology
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 Notre Dame IN 46556
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Higher Education

1997-2002	PhD, Psychometrics, VU University Amsterdam, The Netherlands
1993-1997	Undergraduate Education & MA (cum laude), University of Amsterdam, The Netherlands

Positions

2016-present	Professor of Psychology, Department of Psychology, University of Notre Dame
2008-2016	Associate Professor, Department of Psychology, University of Notre Dame
2010-2016	Visiting Professor, Biological Psychology, VU University Amsterdam
2004-2008	John Cardinal O'Hara, C.S.C. Assistant Professor, Department of Psychology, University of Notre Dame
2003-2004	Assistant Professor, Department of Psychiatry, VIPBG, Virginia Commonwealth University
2001-2003	Research Associate, Graduate School of Education & Information Studies, UCLA, Supervisor: Bengt Muthén

Honors and Awards

2009	Tanaka Award, most outstanding paper published in <i>Multivariate Behavioral Research</i> in 2008
2007	Cattell Award, Outstanding Early Career Contributions to <i>Multivariate Psychology</i> , Society of Multivariate Experimental Psychology

Publications

- Campbell I., Lundstrom S., Larsson H., Lichtenstein P., Lubke G.H. (2018) The relation between the age at diagnosis of problem behaviors related to aggression and distal outcomes in Swedish children. *European Child and Adolescent Psychiatry*, <https://doi.org/10.1007/s00787-018-1250-9>.
- Bartels M., Hendriks AM, Mauri M, Krapohl E, Whipp A, Bolhuis K, Colodro Conde L, Luningham JM, Ip H, Hagenbeek F; Roetman PJ, Gatej R, Lamers A, Nivard MG, Dongen JJ, Lu Y, Middeldorp C, van Beijsterveldt T, Vermeiren R, Hankemeier T, Klufft C, Medland S, Lundstrom S, Rose R, Pulkkinen L, Vuoksima E, Korhonen T, Martin NM, Lubke GH, Finkenaue C, Fanos V, Tiemeier H, Lichtenstein P, Plomin R, Kaprio J, DI. (2018). Childhood Aggression and the co-occurrence of behavioural and emotional problems: Results across ages 3-16 years from multiple raters in 6 cohorts in the EU-ACTION project. *European Child and Adolescent Psychiatry*, 27(9), 1105-1121.
- Luningham JM, Bartels M, Boomsma DI, Lubke GH (2018) Genetic and environmental contributions to overt aggression harmonized across multiple studies, nations, and raters in the ACTION consortium. *Behavior Genetics* 48(6), 491-492.
- Lubke, G. H., McArtor, D. B., Boomsma, D. I., Bartels, M. (2018). Genetic and environmental contributions to the development of childhood aggression. *Developmental Psychology*, 54(1), 39-50.
- Lubke G. H., Luningham J. M. (2017) Fitting Latent Variable Mixture Models. *Behaviour Research and Therapy*, 98:91-102. NIHMSID 921045.
- Bolhuis K, Lubke G. H., van der Ende, J., Bartels, M., van Beijsterveldt, C. E. M., Lichtenstein, P., Larsson, H., Jaddoe, V. W., Kushner, S. A., Verhulst, F. C., Boomsma, D. I., Tiemeier, H. (2017). Disentangling heterogeneity of childhood disruptive behavior problems into dimensions and subgroups. *Journal of the American Academy of Child & Adolescent Psychiatry*, 56(8), 678-686. PMID 28735697.
- McArtor, D. B., Lin, B. D., Hottenga, J. J., Boomsma D. I., Willemsen G., & Lubke G. H. (2017). The interactive effects of age, sex, and lifestyle on the hematological profile. *Biomarkers in Medicine*, 11(6), 427-438.
- Luningham JM, McArtor DB, Bartels M, Boomsma DI, Lubke GH. (2017) Sum Scores in Twin Growth Curve Models: Practicality Versus Bias. *Behavior Genetics*. *Behavior Genetics*, 47(5), 516-536. PMC5719894.
- Warrier, V., Grasby, K. L., Uzefovsky, F., Toro, R., Smith, P., Chakrabarti, B., Khadake J., Mawbey-Adamson E., Litterman N., Hottenga J-J, Lubke G. H., Boomsma D. I., Martin, N. J., P K Hatemi P. K., Medland S. E., Hinds D. A., Bourgeron T., Baron-Cohen S. (2017). Genome-wide meta-analysis of cognitive empathy: heritability, and correlates with sex, neuropsychiatric conditions and cognition. *Molecular Psychiatry*. doi: 10.1038/mp.2017.122 PMC5656177
- Justice, A. E., Winkler, T. W., Feitosa, M. F., Graff, M., Fisher, V. A., Young, K., ... & Ngwa, J. S. (2017). Genome-wide meta-analysis of 241,258 Adults Accounting for Smoking Behavior Identifies Novel Loci for Obesity Traits. *Nature Communications*, 8: 14977. PMC5414044

- De Kort JM, Dolan CV, Lubke GH, Molenaar D (2017). Studying the strength of prediction using indirect mixture modeling: Nonlinear latent regression with heteroskedastic residuals. *Structural Equation Modeling*. 24 (2) 301-313.
- Lubke GH, Campbell I, McArtor DB, Miller PJ, Luningham J, van den Berg SM (2017). Assessing Model Selection Uncertainty Using a Bootstrap Approach: An update. *Structural Equation Modelling*. 24(2), 230-245. PMC5482523
- Miller PJ, Lubke GH, McArtor DB, Bergeman CS (2016). Finding structure in data using multivariate tree boosting. *Psychological Methods* 21 (4), 583-602. PMC5142230
- McArtor DB, Lubke GH, Bergeman CS (2017). Extending multivariate distance matrix regression with an effect size measure and the distribution of the test statistic. *Psychometrika*, 1052-1077. DOI: [10.1007/s11336-016-9527-8](https://doi.org/10.1007/s11336-016-9527-8). PMC5624863
- Nivard MG, Lubke GH, Dolan CV, Evans DM, St Pourcain B, Munafò MR, Middeldorp CM. (2016) Joint developmental trajectories of internalizing and externalizing disorders between childhood and adolescence. *Development and Psychopathology* epub ahead of print. DOI:[10.1017/S0954579416000572](https://doi.org/10.1017/S0954579416000572)
- Jacqueline Vink, Sven Stringer, Camelia Minica, Karin Verweij, Hamdi Mbarek, Manon Bernard, Jaime Derringer, Kristel van Eijk, Joshua Isen, Anu Loukola, Dominique Maciejewski, Evelin Mihailov, Peter van der Most, Cristina Sánchez-Mora, Leonie Roos, Richard Sherva, Raymond Walters, Jennifer Ware, Abdel Abdellaoui, Tim Bigdeli, Susan Branje, Sandra Brown, Marcel Bruinenberg, Miguel Casas, Tõnu Esko, Iris García-Martínez, Scott Gordon, Catharina Hartman, Anjali Henders, Andrew Heath, Ian Hickie, Matthew Hickman, Christian Hopfer, Jouke-Jan Hottenga, Anja Huizink, Daniel Irons, Réne S Kahn, Tellervo Korhonen, Henry Kranzler, Ken Krauter, Pol van Lier, Gitta Lubke, Pamela Madden, Reedik Mägi, Matt McGue, Sarah Medland, Wim Meeus, Michael Miller, Grant Montgomery, Michel Nivard, Ilja Nolte, Albertine Oldehinkel, Zdenka Pausova, Beenish Qaiser, Lydia Quaye, Josep Antoni Ramos-Quiroga, Vanesa Richarte, Richard Rose, Jean Shin, Michael Stallings, Alex Stiby, Tamara Wall, Margaret Wright, Hans Koot, Tomas Paus, John Hewitt, Marta Ribasés, Jaakko Kaprio, Marco Boks, Harold Snieder, T Spector, Marcus Munafo, Andres Metspalu, Joel Gelernter, Dorret Boomsma, William Iacono, Nicholas Martin, Nathan Gillespie, and Eske Derks. (2016). Genome wide association study of lifetime cannabis use based on a large meta-analytic sample of 32,330 subjects from the International Cannabis Consortium. *Translational Psychiatry*, Mar; 6(3): e769. PMC4872459
- Laurin C, Walters R, Boomsma DI, Lubke GH (2016). The use of vector bootstrapping to improve variable selection precision in Lasso models. *Statistical Applications in Genetics and Molecular Biology*, 15(4), 305–320. PMC5131926.
- Nivard MG, Middeldorp CM, Lubke GH, Hottenga JJ, Abdellaoui A, Boomsma DI, Dolan CV (2016). Detection of gene–environment interaction in pedigree data using genome-wide genotypes. *European Journal of Human Genetics*, 24, 1803-1809. PMC5117937.
- Lubke GH, Campbell I (2016). Inference Based on the Best-Fitting Model can contribute to the Replication Crisis: Assessing Model Selection Uncertainty Using a Bootstrap Approach. *Structural Equation Modelling*, 23(4), 479-490. PMC5487004
- Lubke GH, Ouwens KG, de Moor MHM, Trull, TJ, Boomsma DI (2015). Population heterogeneity of trait anger and differential associations of trait anger facets with

- borderline personality features, neuroticism, depression, Attention Deficit Hyperactivity Disorder (ADHD), and alcohol problems. *Psychiatry Research*, online 10/3/2015. PMC4655156
- Lubke GH, Miller PJ, Verhulst B, Bartels M, van Beijsterveldt T, Willemsen G, Boomsma DI, Middeldorp CM (2015). A powerful phenotype for gene-finding studies derived from trajectory analyses of symptoms of anxiety and depression between age 7 and 18. *American Journal of Medical Genetics Part B: Neuropsychiatric Genetics*. Article first published online: 3 SEP 2015. PMC4852155
- Laurin C, Hottema JJ, Willemsen G, Boomsma DI, Lubke GH. (2015). Genetic analyses benefit from using less heterogeneous phenotypes: An illustration with the Hospital Anxiety and Depression Scale (HADS). *Genetic Epidemiology*, 39(4), 317-324. PMC4406831
- De Zeeuw EL, van Beijsterveldt CEM, Lubke GH, Glasner TJ, de Geus EJC, Boomsma DI (2015) Childhood ODD and ADHD behavior: Effects of classroom sharing, gender, teacher gender, and their interactions. *Behavior Genetics*, 45(4), 394-408. PMC4458263
- Lubke GH, Miller P (2015) Does nature have joints worth carving? A discussion of taxometrics, model-based clustering, and latent variable mixture modeling. *Psychological Medicine*, 45(4), 705-715, Epub 2014 Aug 19. PMC4692716
- Van Beek JHDA, Lubke GH, de Moor MHM, Willemsen G, de Geus JC, Hottenga JJ, LivGen consortium, Walters RK, Smit JH, Penninx BWJH, Boomsma DI (2014). Heritability of liver enzyme levels estimated from genome-wide SNP data. *European Journal of Human Genetics*, (26 November 2014) | doi:10.1038/ejhg.2014.259 PMC4538200
- Benke KS, Nivard MG, Velders FP, Walters RK, Scheet PA, Xiao X, Ehli EA, Palmer LJ, Whitehouse AJO, Groen-Blokhuis MM, van Beijsterveldt CEM, EAGLE, Hudziak JJ, Lubke GH, Boomsma DI, Pennel CE, Tiemeier H, Middeldorp CM (2014) A genome-wide association meta-analysis of Preschool Internalizing Problems. *Journal of the American Academy of Child & Adolescent Psychiatry*, 53:667-676.
- Walters R, Laurin C, Lubke GH (2014). Epi2Loc: An R Package to Investigate Two-Locus Epistatic Models. *Twin Research and Human Genetics*, 17:272-278.
- Lubke GH, McArtor D (2014). Multivariate Genetic Analyses in Heterogeneous Populations. *Behavior Genetics*, 44:232-239 PMC4024325
- Van Beek JHDA, De Moor MHM, Geels LM, Sinke MRT, de Geus EJC, Lubke GH, Klufft C, Neuteboom J, Vink JM, Willemsen G, Boomsma DI (2014) The association of alcohol intake with gamma-glutamyl transferase (GGT) levels: evidence for shared genetic effects. *Alcohol and Drug Dependence*, 134:99-105. First published online: 20113 PMC3909645
- Treur JL, Boomsma DI, Lubke GH, Bartels M, Vink JM (2014). The predictive value of smoking expectancy and the heritability of its accuracy. *Nicotine and Tobacco Research*. 16(3): 359-368. First published online: Oct 29 2013. PMCID: PMC3983427.
- Lubke GH, Laurin C, Walters R, Eriksson N, Hysi P, et al. (2013) Gradient Boosting as a SNP Filter: an Evaluation Using Simulated and Hair Morphology Data. *J Data Mining Genomics Proteomics* 4: 143. doi:10.4172/2153-0602.1000143

- Lubke GH, Laurin C, Amin N, Hottenga JJ, Willemsen G, van Grootheest G, Abdellaoui A, Karssen LC, Oostra BA, van Duijn CM, Penninx BWJH, Boomsma DI (2013). Genome-wide analyses of borderline personality features. *Molecular Psychiatry* (27 August 2013) | doi:10.1038/mp.2013.109 PMID: PMC3872258
- Van Beek JHDA, De Moor MHM, de Geus EJC, Lubke GH, Vink JM, Willemsen G, Boomsma DI (2013). The genetic architecture of liver enzyme levels: GGT, ALT and AST. *Behav. Genet.*, 43, 329-339. PMID: PMC3918238
- Lubke GH (2012). Old issues in a new jacket: Power and validation in the context of mixture modeling. *Measurement* 10: 212-216. PMID: PMC3788670
- Walters R, Laurin C, Lubke GH (2012). An Integrated Approach to Reduce the Impact of Minor Allele Frequency and Linkage Disequilibrium on Variable Importance Measures for Genome-Wide Data *Bioinformatics* 28 (20): 2615-2623 PMID: 3467741
- Lubke GH, Hottenga JJ, Walters R, Laurin C, de Geus EJC, Willemsen G, Smit HJ, Middeldorp C, Penninx BWJH, Vink JM, Boomsma DI (2012). Estimating the genetic variance of Major Depressive Disorder (MDD) due to all SNPs. *Biological Psychiatry*, 72(8):707-9 PMID: PMC3404250
- Lubke GH, Stephens SH, Lessem JM, Hewitt JK, Ehringer MA (2012) The CHRNA5/A3/B4 gene cluster and tobacco, alcohol, cannabis, inhalants, and other substance use initiation: Replication and new findings using mixture analyses. *Behavior Genetics*. 636-46 PMID: PMC3743232
- Gillespie NA, Lubke GH, Gardner CO, Neale MC, Kendler KS (2012). Two-part random effects growth modeling to identify risks associated with alcohol and cannabis initiation, initial average use and changes in drug consumption in a sample of adult, male twins. *Journal of Drug and Alcohol Dependence* 123(1-3):220-8. PMID: 3442360
- Robbers SC, van Oort FV, Polderman TJ, Bartels M, Boomsma DI, Verhulst FC, Lubke GH, Huizink AC (2011). Trajectories of CBCL Attention Problems in Childhood. *European Child & Adolescent Psychiatry*, 20(8): 419-27. PMID: 3141842
- Lu ZL, Zhang Z, Lubke GH (2011). Bayesian Inference For Growth Mixture Models With Latent-Class-Dependent Missing Data. *Multivariate Behavioral Research*, 46:567-597.
- Distel MA, Carlier A, Middeldorp CM, Derom CA, Lubke GH, Boomsma DI. (2011). Borderline personality traits and adult attention-deficit hyperactivity disorder symptoms: A genetic analysis of comorbidity. *Am J Med Genet Part B* 156:817-825. PMID: 21812103
- Tueller S, Drotar S, Lubke GH (2011). Addressing the problem of switched class labels in latent variable mixture model simulation studies. *Structural Equation Modeling* 18:110-131.
- Lubke, GH, Tueller, S. (2010). Latent class detection and class assignment: A comparison of taxometric and factor mixture modeling approaches. *Structural Equation Modeling* 17: 605-628. PMID: PMC3955757
- Tueller S, Lubke GH (2010). Evaluation of structural equation mixture models: Parameter estimates and correct class assignment. *Structural Equation Modeling*, 17:165-192. PMID: PMC2890304

- Lubke GH (2010). Latent variable mixture modeling. In GR Hancock & RO Mueller (Eds.), *The Reviewer's Guide to Quantitative Methods in the Social Sciences*. New York, NY: Routledge. 283-297
- Lubke G.H., Hudziak J.J., Derks E.M., van Bijsterveldt T.C.E.M., Boomsma D.I. (2009). Maternal ratings of attention problems and the relation to DSM-IV ADHD: Evidence for the existence of a continuum. *Journal of the American Academy of Child & Adolescent Psychiatry*, 48:1085-1093. PMC2782551
- Lubke, G.H., & Neale, M.C. (2008). Distinguishing between latent classes and continuous factors with categorical outcomes: Class invariance of parameters of factor mixture models. *Multivariate Behavioral Research*, 43:592-620. PMC2629597
- Lubke, G.H. & Spies, J. (2008). Choosing a 'correct' factor mixture model: Power, limitations, and graphical data exploration. In G. R. Hancock & K. M. Samuelsen (Eds.), *Advances in latent variable mixture models*. Charlotte, NC: Information Age Publishing, 343-362.
- Lubke, G.H., Muthén, B.O., Moilanen, I.K., McGough, J.J., Loo, S.K., Swanson, J. M., Yang, M. H., Taanila, A., Hurtig, T., Jarvelin, M.-R., & Smalley, S.L. (2007). Subtypes vs. severity differences in Attention Deficit Hyperactivity Disorder in the Northern Finnish Birth Cohort (NFBC). *Journal of the American Academy of Child & Adolescent Psychiatry*, 46, 1584-1593.
- Keller, P. S., Cummings, E.M., Davies, P.T., & Lubke, G.H. (2007). Children's behavioral reactions to marital conflict as a function of parents' conflict behaviors and alcohol problems. *European Journal of Developmental Psychology*, 4, 157-177.
- Lubke, G.H. & Muthén, B.O. (2007). Performance of factor mixture models as a function of covariate effects, model size, and class-specific parameters. *Structural Equation Modeling* 14, 26-47.
- Lubke, G.H., & Neale, M.C. (2006). Distinguishing between latent classes and continuous factors: Resolution by maximum likelihood? *Multivariate Behavioral Research*, 41, 499-532.
- Pressman, L.J., Loo, S.K., Carpenter, E.M., Asarnow, J. Lynn, D., McCracken, J. McGough, J., Lubke, G.H., Yang, M.H., & Smalley, S.L. (2006). Effects of family environment and parental psychopathology on impairment in ADHD. *Journal of the American Academy of Child & Adolescent Psychiatry*, 45, 345-354.
- Neale, M. C, Lubke, G.H., Aggen, S. H. & Dolan, C.V. (2005). Problems with using sum scores for estimating variance components: Contamination and measurement non-invariance. *Twin Research & Human Genetics*, 16, 553-568.
- Lynn, D.E., Lubke, G.H., Yang, M., McCracken, J.R., Gough, J., & Smalley, S. (2005). Temperament and character profiles and the dopamine D4 receptor gene in ADHD. *The American Journal of Psychiatry*, 162, 906-914.
- Dolan, C.V., Schmittmann, V.D., Lubke, G.H., & Neale, M. C. (2005). Regime switching in the latent growth curve model. *Structural Equation Modeling*, 12, 94-119.
- Lubke, G.H. & Muthén, B.O. (2005). Investigating population heterogeneity with factor mixture models. *Psychological Methods*, 10, 21-39.
- Lubke, G.H. & Muthén, B.O. (2004). Applying multi-group confirmatory factor models for continuous outcomes to Likert scale data complicates meaningful group comparisons. *Structural Equation Modeling*, 11, 514-534.

- Lubke, G.H., Neale, M.C., & Dolan, C.V. (2004). Implications of absence of measurement invariance for detecting sex limitation and genotype by environment interaction. *Twin Research*, 7, 292 - 298.
- Lubke, G.H., Dolan, C.V. & Kelderman, H., & Mellenbergh, G.J. (2003). The relation between sources of within- and between-group differences and measurement invariance in the context of the common factor model. *Intelligence*, 173, 1-24.
- Lubke, G.H., Dolan, C.V., & Kelderman, H. (2003). Weak measurement invariance with respect to unmeasured variables: An implication of strict factorial invariance. *British Journal of Mathematical and Statistical Psychology*, 56, 231-248.
- Lubke, G.H. & Dolan, C.V. (2003). Can differences in residual variances across groups mask differences in residual means in the common factor model? *Structural Equation Modeling*, 10, 175-192.
- Kerssens, C., Lubke, G.H., Klein, J., van der Woerd, A., & Bonke, B. (2002). Memory function during propofol/alfentanil anesthesia: Predictive value of individual differences. *Anesthesiology*, 97, 382-389.
- Lubke, G.H., Dolan, C.V., & Kelderman, H. (2001). Investigating group differences using Spearman's Hypothesis: An evaluation of Jensen's method. *Multivariate Behavioral Research*, 36, 299-324.
- Dolan, C.V. & Lubke, G.H. (2001). Viewing Spearman's Hypothesis from the perspective of multi-group PCA: A comment on Schönemann's criticism. *Intelligence*, 29, 231-245.
- Lubke, G.H. , Kerssens, C., Gershon, R.Y., & Sebel, P.S. (2000). Memory formation during general anesthesia for emergency cesarean sections. *Anesthesiology*, 92, 1029-1037.
- Lubke, G.H. & Sebel, P.S. (2000). Awareness and different forms of memory in trauma anesthesia. *Current Opinions in Anesthesiology*, 13, 161-165.
- Lubke, G.H. , Kerssens, C., Phaf, R.H., & Sebel, P.S. (1999). Dependence of explicit and implicit memory on hypnotic state in trauma patients. *Anesthesiology*, 90, 670-680.

Invited talks, symposia, workshops

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| 2018 | American Psychological Association, Data-mining Workshop |
| 2017 | University of North Carolina, Chapel Hill, invited talk |
| 2016 | University of Tillburg, Netherlands, Invited Talk |
| 2016 | Joint Statistical Meeting, round table discussion |
| 2016 | American Psychological Association, Data-mining Workshop |
| 2015 | American Psychological Association, Data-mining Workshop |
| 2014 | Ohio State University, invited talk |
| 2014 | American Psychological Association, Data-mining Workshop |
| 2014 | Annual Meeting of the Psychometric Society, Invited talk |
| 2014 | Annual Convention of the American Psychological Society, Methods Track lecture |
| 2013 | American Psychological Association, Data-mining Workshop |
| 2013 | Symposium 25 th Anniversary of the Netherlands Twin Register, KNAW, Amsterdam |
| 2012 | Mplus Workshop, John's Hopkins University |

2010	Center for Integrated Latent Variable Research (CILVR), University of Maryland
2008	UBC/Georgetown University Medical Center
2008	Society of Multivariate Experimental Psychology, Montreal
2007	American Educational Research Association (AERA), Chicago
2007	American Psychological Association (APA), San Francisco
2006	Center for Integrated Latent Variable Research (CILVR), University of Maryland

Funding

Ongoing research

2014-2019	<u>FP7-602768, Boomsma (PI), Role: Co-Investigator</u> <i>EU consortium ACTION: Aggression in Children: Unraveling gene-environment interplay to inform Treatment and InterventiON strategies</i>
2004-2020	<u>DA-018673, Neale (PI), Role: Co-Investigator</u> <i>Psychometric and Genetic Assessments of Substance Abuse</i> The goals of this former Merit Award are to develop different methods including but not limited to latent variable mixture models to investigate substance abuse and to apply the methods to existing large data sets. The 10-year grant was renewed for another 5 years.

Completed Research:

2016-2018	NSF 1560089, Brenner, Lubke (PIs) REU Computational Social Sciences at the University of Notre Dame
2004-2016	<u>R01 AG023571, Bergeman (PI), Role: Co-Investigator</u> <i>Notre Dame Study of Resiliency in Later Life</i> The goal is to provide an integrated model of resilience and well-being in Later Life that will help inform intervention efforts to extend disability-free years to larger segments of the population.
2012-2015	<u>BCS-1229450, Nabrzyski, Lubke, Mark, Chawla, Hachen (PIs)</u> <i>MRI: Acquisition of a Data Analytics Cluster for Computational Social Science.</i> The goal is to expand high memory clusters and storage for computationally intensive research in the Social Sciences.
2010-2015	<u>R01MH083830, Clark (PI), Role: Co-Investigator</u> <i>Validity & Clinical Utility of 2-Part System for Personality Disorder Diagnosis</i> The goal of this research is to provide clinicians and researchers of Personality Disorder with a revised diagnostic system that is reliable, valid, and clinically useful.
2007-2010	<u>R01 AG023571, Bergeman (PI), Role: Co-Investigator</u> <i>Supplement to Notre Dame Study of Resiliency in Later Life</i>

- 2009-2011 The goal was to carry out and assist in analyses that involve fitting mixture models to the longitudinal data collected in the study
ISK/6827/VPP, G.H. Lubke (PI)
Royal Netherlands Academy of Arts and Science, Visiting Professors Programme. The goal was to collaborate with researchers at the Department of Biological Psychology, VU University Amsterdam, on projects involving complex phenotypes and genome-wide association studies.
- 2011-2013 Research contract with VU University Amsterdam
The goal was to continue the collaboration with researchers at the Department of Biological Psychology, VU University Amsterdam
- 2006-2008 R21 AG027360, G.H. Lubke (PI)
Novel Methods to Assess Complex Developmental Changes
The goals of my project were (1) to develop and evaluate growth mixture models that combine several growth processes in order to investigate the relation between different developmental processes over time, and (2) to apply these models to empirical data.

Professional Memberships

- SMEP Society of Multivariate Experimental Psychology
BGA Behavior Genetics Association

Service

Professional

- 2011-present Associate Editor Behavior Genetics
2012-2018 Consulting Editor Abnormal Psychology
2014-present Consulting Editor Archives of Scientific Psychology
2010-present Member of the Editorial Board of Psychological Methods
2010-present Member of the Editorial Board of Structural Equation Modeling
2009-present Ad-hoc reviewer of The Royal Netherlands Academy of Arts and Sciences
2009-2018 Ad-hoc reviewer of the National Science Foundation (NFS, USA)
2008-2011 Associate Editor Multivariate Behavioral Research

University

- 2011-2017 Program Director Psychology Program/ Quantitative Area
2011-2017 Graduate Studies Committee, Department of Psychology
2016-2017 Data Science Minor development committee
2016 Chair Quantitative Search Committee
2008-2011 Publicity and Website Committee

2008-2010 Executive Committee, Center for Applied Mathematics
 2007-2008 Space, Parking and Security Committee, Department of Psychology
 2006-2007 Chair of the ad-hoc Quantitative Search Committee
 2006-2007 Strategic Planning Committee, Department of Psychology
 2004-2010 Computer/Tech Support Committee, Department of Psychology

PhD and Masters Committees

2009-present Director of PhD committees (S. Tueller, R. Walters, C. Laurin, P. Miller, D. McArtor, J. Lunningham)
 2006-present Director of Masters Thesis (D. Cisler, R. Walters, C. Laurin, D. McArtor, P. Miller, I. Campbell, J. Lunningham)
 2006-present Member of PhD committees (Z. Ke, X. Zhong, Z. Lu, P. Deboek, W. Zhang, C. Weaver, J. Rausch, L. Smith, E. Covey, M. Gain)
 2006-2014 Member of Masters committees (P. Deboek, X. Zhong, M. Yang)