Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Dr Sabine Meinck**
Professional e-mail	sabine.meinck@iea-hamburg.de
Work phone	+49 (0)40 48500 750
Nationality	German
Date of birth	12/21/1970
Gender	Female

Position / Organisation

Work experience

Dates	10/2015 – Present
Occupation or position held	(Co-)Head of Research and Analysis Unit
Main activities and responsibilities	• Leadership of the unit • Coordination, guidance and support of all research activities within the IEA • Implementation of content and methodological research in large-scale assessments • Conducting workshops on methodology and the science of large-scale assessments, statistical data analysis, and academic and policy-relevant writing
Name of employer	Stichting IEA Secretariaat Nederland. IEA Hamburg (formerly IEA Data Processing and Research Center)
Type of business or sector	Non-profit research organization

Dates	10/2011 – Present
Occupation or position held	(Co-)Head of Sampling Unit
Main activities and responsibilities	• Leadership of the unit • Coordination, guidance and support of all sampling activities within the IEA • Sampling design development and implementation in large-scale educational surveys (Starting Strong Survey, IELS, TIMSS, PIRLS, ICCS, ICILS) and German national surveys (e.g., educational standards etc.) • Conducting research and workshops on sampling, weighting and variance estimation
Name of employer	Stichting IEA Secretariaat Nederland. IEA Hamburg (formerly IEA Data Processing and Research Center)
Type of business or sector	Non-profit research organization

Dates	03/2006 – 09/2011
Occupation or position held	Senior Researcher, Sampling Methodologist
Main activities and responsibilities	• Sampling design development and implementation, weighting and variance estimation in large-scale educational surveys (TIMSS, PIRLS, ICCS, TEDS-M, ICILS) and German national surveys (e.g., educational standards etc.) • Conducting training sessions and presentations about sampling, weighting and variance estimation • Implementation of research on related topics
Name of employer	Stichting IEA Secretariaat Nederland. IEA Hamburg

Type of business or sector	Non-profit research organization
Dates	09/2004 – 02/2006
Occupation or position held	Consultant
Main activities and responsibilities	Consulting in statistical analyses of empirical data (high school students, postgraduates)
Name of employer	-- (freelance work, Hamburg)
Type of business or sector	Multidisciplinary empirical research
Dates	01/2003 – 12/2003
Occupation or position held	Teacher
Main activities and responsibilities	Teaching statistics and informatics
Name of employer	FIT Educational Academy, Magdeburg
Type of business or sector	Adult education
Dates	04/1995 – 12/1999
Occupation or position held	Researcher
Main activities and responsibilities	Planning and implementation of agricultural field trials, statistical analysis and publication of the results
Name of employer	Saxony regional office of agriculture, Leipzig
Type of business or sector	Agricultural research

Other Professional Activities

Current

- Board member IERI Institute
- Associated Editor of journal "Large-scale Assessments in Education"
- Member of PISA Technical Advisory Group
- Research fellow Indiana University
- Lectureship at the University of Hamburg: Master course "Complex methods in quantitative empirical research"
- Reviewer of several peer-reviewed journals

Past

- Member of the Project Management Team TIMSS and PIRLS
- Member of the Consortium of IELS
- Member of the Consortium of the TALIS Starting Strong Survey
- Member of the ICILS Joint Management Committee (ex-officio)
- Member of the ICCS Joint Management Committee (ex-officio)
- Member of the ECES Joint Management Committee (ex-officio)
- Member of the TEDS-M Joint Management Committee (ex-officio)

Education and training

Dates	09/1999
Title of qualification awarded	Dr agriculturarum

Principal subjects/occupational skills covered	Thesis title: "Organic potato production: Variety choice and *Phytophthora* prophylaxis."
Name and type of organisation providing education and training	University Kassel, Department Agriculture and International Rural Development
Dates	09/1990 – 02/1995
Title of qualification awarded	Diplom Agrar Ingenieur
Principal subjects/occupational skills covered	Agricultural sciences
Name and type of organisation providing education and training	University of Leipzig, Department Agricultural Sciences

Personal skills and competences

Mother tongue(s)	German
Other language(s)	English
Computer skills and competences	Proficient user of SPSS, SAS, Mplus, HLM, IEA IDB Analyzer

Publications and Presentations

Alkan, M. & Meinck, S. (2015). The relationship between students' use of ICT for social communication and their computer and information literacy. Paper presented at the 6th IEA International Research Conference, Cape Town, South Africa.

Alkan, M., & Meinck, S. (2016). The relationship between students' use of ICT for social communication and their computer and information literacy. *Large-scale Assessments in Education*, *4*(1), 16.

Brese, F., & Tatto, M. T. (Eds.) with Becker, A., Carstens, R., Dumais, J., Meinck, S., Mirazchiyski, P. *TEDS-M 2008 user guide for the international database*. Amsterdam, IEA

Dumais, J., & Meinck, S. (2013). Estimation of weights, participation rates, and sampling error. In M. T. Tatto (Ed.), *The Teacher Education and Development Study in Mathematics (TEDS-M): Policy, practice, and readiness to teach primary and secondary mathematics in 17 countries. Technical report* (pp. 129–159). Amsterdam, IEA

Dumais, J., Meinck, S., Tatto, M. T., Schwille, J., & Ingvarson, L. (2013). Sampling design. In M. T. Tatto (Ed.), *The Teacher Education and Development Study in Mathematics (TEDS-M): Policy, practice, and readiness to teach primary and secondary mathematics in 17 countries. Technical report* (pp. 79–91). Amsterdam, IEA

Heine, J.-H., Nagy, G., Meinck, S., Zühlke, O., & Mang, J. (2017). Empirische grundlage, stichprobenausfall und adjustierung im PISA-Längsschnitt 2012–2013. *Zeitschrift für Erziehungswissenschaft*, *20*(S2), 287–306.

Mang, J., Wagner, S., Gomolka, J., Schäfer, A., Meinck, S., Reiss, K. (2019). Technische Hintergrundinformationen PISA 2018. Doi:10.14459/2019md1518258

Mang, J., Küchenhoff, H., Prenzel, M., Meinck, S. (2018). Validierung geeigneter Stichprobengewichte der PISA Studie im hierarchischen Modell. Annual meeting of Gesellschaft für Empirische Bildungsforschung (GEBF), Switzerland, Basel.

Meinck, S. & Dumais, J. (2010): Sampling design, weighting and variance estimation for the Teacher Education and Development Study in Mathematics (TEDS-M). Paper presented at the 54th Annual Conference of the Comparison and International Education Society, Chicago, USA.

Meinck, S. & Dumais, J. (2010). Sampling design for the Teacher Education and Development Study in Mathematics (TEDS-M): Challenges, solutions, restrictions. Paper presented at the 4th IEA International Research Conference, Gothenburg, Sweden. Retrieved from http://www.iea-irc.org/fileadmin/IRC_2010_papers/TEDS_M/Meinck_Dumais.pdf

Meinck, S. & Rodriguez, M. (2011). Particular considerations for correlation analysis using data from the Teacher Education and Development Study in Mathematics (TEDS-M). Paper presented at the 55th Annual Conference of the Comparison and International Education Society, Montreal, Canada.

Meinck, S. & Vandenplas, C. (2011). Sampling precision of hierarchical linear models: Dependence on varying sample and population conditions. Paper presented at the 8th International Conference on Multilevel Analysis, Amsterdam, the Netherlands.

Meinck, S., & Vandenplas, C. (2012). Evaluation of a prerequisite of hierarchical linear modeling (HLM) in educational research: The relationship between the sample sizes at each level of a hierarchical model and the precision of the outcome model. *IERI Monograph Series: Issues and Methodologies in Large-Scale Assessments*. (Special issue 1).

Meinck, S. (2013): Hierarchical modeling with large-scale assessment data: Influence of intra-class correlation on sampling precision. Paper presentation at the 5th IEA International Research Conference, Singapore.

Meinck, S., & Dumais, J. (2013). Characteristics of national samples: Implementations of the international sampling design in participating countries. In M. T. Tatto (Ed.), *The Teacher Education and Development Study in Mathematics (TEDS-M): Policy, practice, and readiness to teach primary and secondary mathematics in 17 countries. Technical report* (pp. 211–251). Amsterdam, IEA

Meinck, S., & Rodriguez, M. C. (2013). Considerations for correlation analysis using clustered data: Working with the teacher education and development study in mathematics (TEDS-M) and other international studies. *Large-scale Assessments in Education*, *1*(1), 7.

Meinck, S. & C. Vandenplas (2013). HLM with educational large-scale assessment data: Restrictions on inferences due to limited sample sizes. Paper presented at the 57th Annual Conference of the Comparison and International Education Society, New Orleans, USA.

Meinck, S. (2015). Computing sampling weights in large-scale assessments in education. *Survey Insights: Methods from the Field, Weighting: Practical Issues and 'How to' Approach*, 1–13.

Meinck, S. (2015). Sampling design and implementation. In J. Fraillon, W. Schulz, T. Friedman, J. Ainley, & E. Gebhardt (Eds.), *ICILS 2013 technical report* (pp. 67–86). Amsterdam, IEA

Meinck, S., & Cortes, D. (2015). Weights and variance estimation for ICILS 2013. In M. Jung & R. Carstens (Eds.), *ICILS 2013 user guide for the international database* (pp. 37–47). Amsterdam, IEA

Meinck, S., Cortes, D. & Tieck, S. (2015). Can school nonresponse questionnaires reduce the risk of nonresponse bias in IEA studies? Paper presented at the 6th IEA International Research Conference, Cape Town, South Africa.

Meinck, S. (2015). Sampling weights, nonresponse adjustments and participation rates. In J. Fraillon, W. Schulz, T. Friedman, J. Ainley, & E. Gebhardt (Eds.), *ICILS 2013 technical report* (pp. 87–113). Amsterdam, IEA

Meinck, S. & Stancel-Piatak, A. (2016). Preparing the grounds: Early literacy and numeracy activities founding reading, mathematics and science achievement. Paper presented at the 60th Annual Conference of the Comparison and International Education Society, Vancouver, Canada.

Meinck, S. (2016). Rückmeldung an Schulen im Rahmen von Large-Scale Assessments – Chancen und Grenzen aus methodischer Sicht. Paper presented at the 2016 Kommission Bildungsplanung, Bildungsorganisation und Bildungsrecht, Paderborn, Germany.

Meinck, S. & Brese, F. (2017). Trends in gender gaps: Using twenty years of evidence from TIMSS. Paper presented at the 7th IEA International Research Conference, Prague, Czech Republic.

Meinck, S., Cortes, D., & Tieck, S. (2017). Evaluating the risk of nonresponse bias in educational large-scale assessments with school nonresponse questionnaires: A theoretical study. *Large-scale Assessments in Education*, *5*(1), 291.

Meinck, S., Stancel-Piątak, A., Desa, D., Hastedt, D., and Sibberns, H. (2017). Cross-national large-scale assessments in education: methodological challenges, perspectives, and developments. Special issue in Tertium Comparationis. Waxmann.

Meinck, S., Stancel-Piątak, A., Eraydin, I. (2017). Trends in the relationships between early learning activities, parental education and child performance (PIRLS & TIMSS). Paper presented at the 2017 Annual Meeting of the American Educational Research Association, United States, San Antonio.

Meinck, S., Dumais, J. (2018). Sampling for TEDS-M. In Tatto, M.T., Rodriguez, M., Smith, W., Reckase, M., Bankov, K. (Eds.). *Exploring the mathematical education of teachers using TEDS-M data*. Springer, New York

Meinck, S., Stancel-Piątak, A., Verdisco, A. (2018). Preparing the ground: The importance of early learning activities at home for fourth grade student achievement. IEA Compass: Briefs in Education No. 3. Amsterdam, The Netherlands: IEA.

Meinck, S. & Brese, F. (2019). Trends in gender gaps: using 20 years of evidence from TIMSS. Large-scale Assessments in Education (2019) 7:8, https://rdcu.be/bMwWT

Meinck, S. (2020). Sampling, weighting, and variance estimation. In Wagemaker, H. (Eds.). Reliability and validity of international large-scale assessment. Springer International Publishing, p. 113-129.

Meinck, S., Wagemaker, H., Gonzalez, E. (2020). Consequential Validity: Data access, data use, analytical support, and training. . In Wagemaker, H. (Eds.). Reliability and validity of international large-scale assessment. Springer International Publishing, p. 221-230.

Tatto, M. T., Schwille, J., Senk, S. L., Ingvarson, L., Rowley, G., Peck, R., Bankov, K., Rodriguez, M., Reckase, M., with Dumais, J., Carstens, R., Brese, F., Meinck, S., Berzina-Pitcher, I., Lu, Y., Holdgreve-Resendez, R. (Eds.). (2012). *Policy, practice, and readiness to teach primary and secondary mathematics in 17 countries: Findings from the IEA teacher education and development study in mathematics (TEDS-M).* Amsterdam, IEA

Twele, N., Wilsher Beyer, C., Meinck, S., Neuschmidt, O., Savasci, D., Gonzalez, E. (2018). *Résultats Préliminaires de l'Evaluation Nationale 2017 en Haïti.* Hamburg, Germany: International Association for the Evaluation of Educational Achievement (IEA), https://www.cliohaiti.org/spip.php?article412