

## 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

<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name of employer</p> <p>Type of business or sector</p>	<p>10/2015 – Present</p> <p>Head of Research and Analysis Unit</p> <ul style="list-style-type: none"> <li>• Leadership of the unit</li> <li>• Coordination, guidance and support of all research activities within the IEA</li> <li>• Implementation of content and methodological research in large-scale assessments,</li> <li>• Conducting workshops on methodology and the science of large-scale assessments, statistical data analysis, and academic and policy-relevant writing</li> </ul> <p>Stichting IEA Secretariaat Nederland. IEA Hamburg (formerly IEA Data Processing and Research Center)</p> <p>Non-profit research organization</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name of employer</p> <p>Type of business or sector</p>	<p>04/2015 – Present</p> <p>Head of Sampling Unit</p> <ul style="list-style-type: none"> <li>• Leadership of the unit</li> <li>• Coordination, guidance and support of all sampling activities within the IEA</li> <li>• 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.)</li> <li>• Conducting research and workshops on sampling, weighting and variance estimation</li> </ul> <p>Stichting IEA Secretariaat Nederland. IEA Hamburg (formerly IEA Data Processing and Research Center)</p> <p>Non-profit research organization</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p>	<p>10/2011 – 04/2015</p> <p>Co-Head of Sampling Section</p> <ul style="list-style-type: none"> <li>• Cooperative lead of the unit</li> <li>• Coordination, guidance and support of sampling activities within the IEA</li> <li>• Sampling design development and implementation in large-scale educational surveys (TIMSS, PIRLS, ICCS, ICILS) and German national surveys (e.g., educational standards etc.)</li> <li>• Conducting research and workshops on sampling, weighting and variance estimation</li> </ul>

Name of employer	Stichting IEA Secretariaat Nederland. IEA Hamburg
Type of business or sector	Non-profit research organization
Dates	03/2006 – 09/2015
Occupation or position held	Senior Researcher
Main activities and responsibilities	<ul style="list-style-type: none"> <li>• 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.)</li> <li>• Conducting training sessions and presentations about sampling, weighting and variance estimation</li> <li>• Implementation of research on related topics</li> </ul>
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

- Lectureship at the University of Hamburg: Master course “Complex methods in quantitative empirical research”
- Board member IERI Institute
- Associated Editor of journal “Large-scale Assessments in Education”
- 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
- Reviewer of several peer-reviewed journals

Past

- 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.
- Meinck, S. & J. Dumais (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. & J. Dumais (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](http://www.iea-irc.org/fileadmin/IRC_2010_papers/TEDS_M/Meinck_Dumais.pdf)
- Meinck, S. & M. Rodriguez (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. & C. Vandenplas (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., & Vaandenplas, 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 5<sup>th</sup> 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 7<sup>th</sup> 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-Piatak, 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-Piatak, 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.

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