

## Curriculum Vitae

### Personal information

**First name(s) / Surname(s)** **Dr Duygu Savaşçı**  
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**Work phone** +49 (0)40 48500 751  
**Nationality** Turkish  
**Gender** Female

### Position / Organisation

#### Work experience

<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p>	<p>2012 – Present</p> <p>Research Analyst</p> <ul style="list-style-type: none"> <li>• IEA Sampling Unit's Project Lead for PIRLS since 2012, LaNa since 2016, TIMSS between 2015 and 2019, and for Haiti National Assessment</li> <li>• Sampling design development and implementation, weighting and variance estimation in IEA's large-scale educational surveys using SAS</li> <li>• Carrying out sampling consultations and conducting trainings about sampling in complex surveys and related topics</li> <li>• Statistical analysis of large-scale assessments data</li> <li>• Involvement in IEA software development; writing the sampling requirements and testing</li> </ul>
<p>Name of employer</p> <p>Type of business or sector</p>	<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>2007 – 2012</p> <p>Research Assistant</p> <ul style="list-style-type: none"> <li>• Research and analysis on econometric models, non- and semi-parametric methods</li> <li>• Testing model specifications: GLMM and other extensions, semi-mixed effects models</li> <li>• Computational statistics using R, Stata and Fortran</li> </ul>
<p>Name of employer</p> <p>Type of business or sector</p>	<p>The University of Göttingen</p> <p>Institute for Statistics and Econometrics</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p>	<p>2009 – 2011</p> <p>Teaching Assistant</p> <ul style="list-style-type: none"> <li>• Teaching the practical courses Econometrics I and II using Stata</li> <li>• Preparing the examination questions and scoring the examination papers</li> <li>• Consulting the students throughout the semesters</li> <li>• Leading the team of tutors for the respective courses</li> </ul>
<p>Name of employer</p> <p>Type of business or sector</p>	<p>The University of Göttingen</p> <p>Institute for Statistics and Econometrics</p>

Dates September 2011  
 Occupation or position held Visiting Researcher  
 Main activities and responsibilities
 

- Research and analysis on non- and semi-parametric methods, particularly using smoothing spline technique
- Testing model specifications: semi-mixed effects models using R

 Name of employer The University of A Coruña  
 Type of business or sector Mathematics Department

Dates September 2009  
 Occupation or position held Visiting Researcher  
 Main activities and responsibilities
 

- Research and analysis on non- and semiparametric methods
- Conducting simulation studies using R

 Name of employer The University of A Coruña  
 Type of business or sector Mathematics Department

Dates February – April 2007  
 Occupation or position held Mathematics Teacher  
 Main activities and responsibilities
 

- Teaching Mathematics to 6th grade students
- Preparing the examination questions and scoring the examination papers
- Conducting parent-teacher conferences

 Name of employer Kuşadası Nermin Metin Akar Middle School  
 Type of business or sector Public School

### \* Other Professional Activities

Current
 

- Main sampling contact for Haiti National Assessment in collaboration with the Haitian Ministry of Education and the Inter-American Development Bank
- Member of the Project Management Team TIMSS and PIRLS
- Member of the Project Management Team LaNA
- Research interests: Sampling implementation and design in International Large-Scale Assessments in education

Past
 

- Teaching Econometrics I and II practical courses at the University of Göttingen
- Research interests: Non- and semi-parametric modelling and methods

Scholarships
 

- 2007 – 2009 Georg-Christoph-Lichtenberg-Stipendiums des Landes Niedersachsen
- 2010 – 2011 Deutscher Akademischer Austauschdienst Project Grant

### Education and training

Dates 2007 – 2012

Title of qualification awarded	Doctor of Philosophy – PhD, Econometrics
Principal subjects/occupational skills covered	Econometrics
Name and type of organisation providing education and training	The University of Göttingen, Institute for Statistics and Econometrics, Faculty of Economic Sciences
Dates	2007 – 2012
Title of qualification awarded	Certificate in Applied Statistics, PhD Programme in Applied Statistics and Empirical Methods
Principal subjects/occupational skills covered	Applied Statistics
Name and type of organisation providing education and training	The University of Göttingen, Center for Statistics, Faculty of Mathematics and Computer Science
Dates	2003 – 2006
Title of qualification awarded	Master of Science - MSc, Statistics
Principal subjects/occupational skills covered	Statistics
Name and type of organisation providing education and training	Ankara University, Department of Statistics, Graduate School of Natural and Applied Sciences
Dates	1999 – 2003
Title of qualification awarded	Bachelor of Science - BSc, Statistics
Principal subjects/occupational skills covered	Statistics
Name and type of organisation providing education and training	Ankara University, Department of Statistics, Faculty of Science
 <b>Personal skills and competences</b>	
Mother tongue(s)	Turkish
Other language(s)	English, German and French
Computer skills and competences	<ul style="list-style-type: none"> <li>• Statistical analysis: good command of R, SAS and Stata, intermediate level of SPSS, basic level of Matlab, C++ and Fortran</li> <li>• Production of technical and scientific documentation: LaTeX</li> <li>• Project management, software development: JIRA, Mantis Bug Tracker</li> <li>• Querying databases: basic level of SQL</li> <li>• Econometric analysis: basic level of OxMetrics</li> <li>• Office related applications: MS Office (Word, Excel and PowerPoint)</li> <li>• Markup language: basic level of HTML</li> </ul>

## Publications and presentations

Savaşçı, D., Tieck, S., (2018), Description of Sampling Design and Weighting, Haiti National Evaluation 2017. Submitted to Haitian Ministry of National Education.

Weber, S., Tieck, S., Savaşçı, D., (2018), Weighting procedures. *International Civic and Citizenship Education Study 2016 Technical Report*. IEA, Amsterdam, 99-115.

Twele, N., Beyer, C.W., Meinck, S., Neuschmidt, O., Savaşçı, D., Gonzalez, E., (2018), Résultats Préliminaires de l'Evaluation Nationale 2017 en Haïti. Published online by Cadre de Liaison Inter-Organisations, Haiti.

Savaşçı, D., Tieck, S., (2016), Description of Sampling Design and Weighting, Haiti National Evaluation 2016. Submitted to Haitian Ministry of National Education.

Savaşçı, D., (2017), PIRLS 2011 & PIRLS 2016 Sample Design. Published online by International Large-Scale Assessment (ILSA) Gateway. Link: <https://ilsa-gateway.org/>

Savaşçı, D., (2017), TIMSS 2015 & TIMSS Advanced 2015 Sample Design. Published online by International Large-Scale Assessment (ILSA) Gateway.

Proenca, I., Sperlich, S., Savaşçı, D., (2015), Semi-mixed effects gravity models for bilateral trade. *Empirical Economics*, 48: 361-387.

Savaşçı, D., (2011), Three studies on semi-mixed effects models. The University of Göttingen, Göttingen State and University Library. Link: <https://ediss.uni-goettingen.de/handle/11858/00-1735-0000-000D-F1E3-3>

Savaşçı, D., H. Aydogdu, H., (2010), Age and block replacement policies in *renewal processes*. *Selcuk Journal of Applied Mathematics*, 11 (1): 81-94.

Savaşçı, D., (2006), Yenileme Süreçlerinde Yaş ve Blok Değişirme Stratejileri. Ankara University Open Archive System. Link: <https://dspace.ankara.edu.tr/xmlui/handle/20.500.12575/29103>

### Teaching at workshops with IEA Hamburg

Sampling in International Large-scale Assessment Studies for IERI (IEA-ETS Research Institute) Summer Academy, Hamburg, Germany, September 16-18, 2019

Sampling in International Large-scale Assessment Studies for IERI (IEA-ETS Research Institute) Summer Academy, Hamburg, Germany, September 27-28, 2017

IEA's International Database Analyzer Training at the PIRLS 2016 National Research Coordinators Meeting, Riga, Latvia, June 22, 2017

Sampling Workshop for the team from the Haiti Ministry of Education, Hamburg, Germany, November 14-15, 2016

Complex Sampling in Large-Scale Assessments in Education Workshop for the team from the Georgia Ministry of Education, Hamburg, Germany, November 16-20, 2015

Hierarchical Linear Modelling with TIMSS and PIRLS Data, Hamburg, Germany, November 25-29, 2013

Hierarchical Linear Modelling with TIMSS and PIRLS Data, Hamburg, Germany, April 15-19, 2013

### **Teaching at the University of Göttingen, Germany**

Econometrics 2, Summer Semester 2011, practical course in English

Econometrics 1, Winter Semester 2010/11, practical course in English

Econometrics 2, Summer Semester 2010, practical course in English

Econometrics 1, Winter Semester 2009/10, practical course in English

### **Presentations**

Important Sampling Related Matters, PIRLS 2021 Data Management Seminar (online), Hamburg, Germany, 2020

Introduction to Within-school software & Important Sampling Related Matters, PIRLS 2021 Field Test Data Management Seminar, Hamburg, Germany, 2019

Important Sampling Related Matters, TIMSS 2019 Data Management Seminar, Hamburg, Germany, 2018

Important Sampling Related Issues, TIMSS 2019 Field Test Data Management Seminar, Hamburg, Germany, 2017

Important Sampling Related Issues, PIRLS 2016 Data Management Seminar, Hamburg, Germany, 2015

TIMSS Advanced Windows Within School Software, TIMSS and TIMSS Advanced 2015 Data Management Seminar, Hamburg, Germany, 2015

TIMSS Advanced Windows Within School Software, TIMSS and TIMSS Advanced 2015 Field Test Data Management Seminar, Hamburg, Germany, 2013

Nonparametric Small Area Estimation Using Penalized Spline Regression, Mixed Effects Models and its Applications, The University of Göttingen, Germany, 2010

Financial Time Series, Institute for Statistics and Econometrics, The University of Göttingen, Germany, 2009

Semi-Parametric, and Semi-Mixed Effects Models, Center for Statistics Summer School, Hann. Münden, Germany, 2008

Bayesian Inference for Generalized Additive Mixed Models Based on Markov Random Field Priors, Elements of Statistical Consulting, The University of Göttingen, Germany, 2008

Cluster Analysis in Multivariate Statistics, Graduate Seminar in Applied Statistics and Econometrics, The University of Göttingen, Germany, 2007

Semiparametric Models, Graduate Seminar in Applied Statistics and Econometrics, The University of Göttingen, Germany, 2007

Age and Block Replacement Policies in Renewal Processes, Graduate Seminar in Applied Statistics and Econometrics, The University of Göttingen, Germany, 2007

### **Consultations**

Consulted over 60 IEA (International Association for the Evaluation of Educational Achievement) institutional members, encompassing mostly research institutes, universities, and ministries of education from around the world for the IEA

studies TIMSS, PIRLS and ICCS. These consultations took place in the National Research Coordinators (NRC) Meetings, each of the meetings in a host country with the rest of the member countries attending

Progress in International Reading Literacy Study (PIRLS) since 2012

Attended 13 NRC meetings in the following host countries: Germany (4), Slovenia, Ireland, Malta, Finland, Hong Kong, Morocco, Latvia, Taiwan, Italy.

Trends in International Mathematics and Science Study (TIMSS) since 2013

Attended 9 NRC meetings in the following host countries: Germany (4), Canada, Australia, Spain, Sweden, Cyprus.

International Civic and Citizenship Education Study (ICCS) in 2015

Attended 1 NRC meeting in Estonia