

# MARTINA JAKOB

Department of Economics, University of Zurich, Switzerland

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## FIELDS OF INTEREST

Primary: Development Economics

Secondary: Computational Social Sciences, Machine and Deep Learning

## EDUCATION

University of Bern, Switzerland	PhD in Sociology (focus on Development Economics, summa cum laude, 5.97/6.00)	2023
UC Berkeley, United States	Visiting Research Fellow, Department of Economics	2022
University of Bern, Switzerland	BA in Social Sciences and MA in Sociology (summa cum laude, 5.97/6.00)	2019

## EMPLOYMENT

Postdoctoral Fellow	University of Zurich, Department of Economics	2024 – pres.
Research Associate	University of Bern, Institute of Sociology	2019 – 2023
Student Research Assistant	University of Bern, Institute of Sociology	2015 – 2019
Student Research Assistant	University of Bern, Institute of Philosophy	2014 – 2015

## GRANTS AND AWARDS

Mobility grant by the Swiss National Science Foundation for a stay at the University of California in Berkeley (CHF 18,400)	2021
“Doc.CH grant” for promising doctoral researchers by the Swiss National Science Foundation (CHF 253,702)	2020
Best master’s degree of the Faculty of Business, Economics and Social Sciences, University of Bern (CHF 1,000, first place among 117 students)	2019
“Impact award” by the Swiss Agency for Development and Cooperation and ETH Zürich (CHF 50,000)	2017
Second-best high school diploma at “Gymnasium Hofwil” (5.73/6.00), Münchenbuchsee, Switzerland	2011

## PUBLICATIONS

“Inadequate Teacher Content Knowledge and what Could be Done about it: Evidence from El Salvador”. **Journal of Development Effectiveness**. 2023. Joint with Konstantin Büchel, Daniel Steffen, Ben Jann, and Aymo Brunetti.

“The Value of Teachers and Computer-Assisted Learning in Developing Countries. Evidence from a Field Experiment in El Salvador”. **Journal of Labor Economics**. 2022. Joint with Konstantin Büchel, Christoph Kühnhanss, Daniel Steffen, and Aymo Brunetti.

“Educational Aspirations and Decision-Making in a Context of Poverty. A Test of Rational Choice Models in El Salvador”. **Research in Social Stratification and Mobility**. 2020. Joint with Benita Combet.

## WORKING PAPERS

“Mobilizing for the Public Good: A Field Experiment on Community-Driven Development and Waste Management”. Joint with Carla Coccia.

“Measuring Human Capital with Social Media Data and Machine Learning”. Joint with Sebastian Heinrich.

“Participatory Teaching Improves Learning Outcomes: Evidence from a Field Experiment in Tanzania”. Joint with Konstantin Büchel, Daniel Steffen, and Aymo Brunetti.

“Teacher Content Knowledge in Developing Countries: Evidence from a Math Assessment in El Salvador”. Joint with Konstantin Büchel, Christoph Kühnhanss, Daniel Steffen, Ben Jann, and Aymo Brunetti.

## WORK IN PROGRESS

“Improving the Quality of Education in Developing Countries: An Experimental Evaluation of Three Teacher Training Programs”. Joint with Carla Coccia, Konstantin Büchel, Ben Jann, and Aymo Brunetti.

“Guiding the Way: A Field Experiment on Mentoring and School Dropout in Guatemala”. Joint with Mauricio Romero, Eric Edmonds, and Carla Coccia.

“Social Norms of Teacher Effort: A Field Experiment in El Salvador”.

## SELECTED NON-ACADEMIC PUBLICATIONS

“Inadequate Teacher Content Knowledge and What to Do About It”. Policy brief. 2023. Joint with Konstantin Büchel, Daniel Steffen, Ben Jann, and Aymo Brunetti.

“A Mixed Methods Deluxe Evaluation of the School-Based In-Service Teacher Training (SITT) Program in Tanzania”. Evaluation report. 2022. Joint with Konstantin Büchel, Daniel Steffen, and Aymo Brunetti.

“Consulta Magisterial: Conocimientos y Perspectivas de las y los Docentes en Morazán”. Memo for the Ministry of Education in El Salvador. 2021. Joint with Konstantin Büchel, Christoph Kühnhanss, Daniel Steffen, Ben Jann, and Aymo Brunetti.

“Self-Paced and Interactive Learning with Computers: Does it Effectively Boost Children’s Math Skills?”. Policy brief. 2020. Joint with Konstantin Büchel, Christoph Kühnhanss, Daniel Steffen, and Aymo Brunetti.

“Expanding School Time and the Value of Computer-Assisted Learning: Evidence from a Randomized Controlled Trial in El Salvador”. Evaluation report. 2019. Joint with Konstantin Büchel, Christoph Kühnhanss, Daniel Steffen, and Aymo Brunetti.

## TEACHING EXPERIENCE

### Lecturer, University of Bern, Switzerland

BA lecture	"Programming II: Python" (with R. Farys)	Spring 2024
BA & MA seminar	"Understanding Global Development" (with M. Prater)	Spring 2024
BA & MA seminar	"Machine Learning and Artificial Neural Networks" (with S. Bahr)	Fall 2023
CAS lecture	"Web Scraping and APIs" (with S. Heinrich)	Fall 2023
BA lecture	"Programming II: Python" (with R. Farys)	Spring 2023
CAS lecture	"Web Scraping and APIs" (with S. Heinrich)	Fall 2021
BA & MA seminar	"Big Data for Development" (with B. Jann)	Spring 2021
BA seminar	"Introduction to Development Sociology" (with C. Kühnhanss)	Fall 2020
BA & MA seminar	"Topics in Development Sociology" (with C. Kühnhanss)	Spring 2020
BA seminar	"Introduction to Development Sociology" (with C. Kühnhanss)	Fall 2019
MA seminar	"Impact Evaluations" (with B. Jann and C. Kühnhanss)	Spring 2019

### Other teaching experience

Teaching	Volunteer teacher in El Salvador (grades 7 to 9, 10 months)	2011 – 2012
Tutoring	Independent tutor for secondary and tertiary education (math, statistics, languages etc.)	2006 – 2011

## HONORARY PROFESSIONAL ACTIVITIES

I am the founder and president of <a href="#">Consciente</a> , a non-profit organization dedicated to advancing quality education in El Salvador. Consciente pursues an evidence-based approach and presently employs 54 staff members in El Salvador (24 permanent team members and 30 contract teachers). The Swiss team consists of over 20 volunteers and is responsible for project monitoring and fundraising to cover the annual budget of roughly CHF 500,000.	2012 – pres.
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## OTHER INFORMATION

Citizenship	Swiss
Programming	Python, R, Stata
Languages	German (native), Spanish (fluent), English (fluent), French (intermediate), Italian (basic)
Services	Hiring committee (2018, 2024) and structural committee representative (2023), University of Bern
References	<a href="#">Prof. Dr. Ben Jann</a> , <a href="mailto:ben.jann@unibe.ch">ben.jann@unibe.ch</a> <a href="#">Prof. Dr. Mauricio Romero</a> , <a href="mailto:mtromero@itam.mx">mtromero@itam.mx</a> <a href="#">Prof. Dr. Edward Miguel</a> , <a href="mailto:emiguel@berkeley.edu">emiguel@berkeley.edu</a> <a href="#">Prof. Dr. Aymo Brunetti</a> , <a href="mailto:aymo.brunetti@unibe.ch">aymo.brunetti@unibe.ch</a>