Kristoffer Bjärkefur

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EDUCATION

Johns Hopkins University - SAIS   **Bologna, Italy and Washington, DC, USA**
MA, International Relations, International Development and International Economics   *2011-2013*

Stanford University   **Palo Alto, CA, USA**
Computer Science   *Summer 2013*

Lund University   **Lund, Sweden**
BA, Major in Economics   *2005-2009*

WORK EXPERIENCE

The World Bank Group   **Washington, DC, USA**
Data Scientist, DIME Analytics, DIME   *July 2015 – Present*
- Lead development and implementation of best practices for data collection, data management, data analysis and data security at the World Bank's Department for Impact Evaluations (DIME)
- Develop introductory training material and deliver trainings for 200+ researchers in Stata, Python, version-control in Git/GitHub, questionnaire programming, data security, programming methodologies, and cloud infrastructure
- Advise research teams when choosing technical solutions for data needs such as cloud infrastructure, secure data transfer and storage, and encryption
- Train 50+ teams in Git/GitHub and administrate the World Bank's GitHub organization account
- Develop the Stata packages `ietoolkit` and `iefieldkit` that standardize code practices across DIME. Packages used frequently both in DIME and in the larger development data community
- Develop and review tests used for assessing technical skills during hiring process
- Develop cloud computation best practices and support 15+ teams in transition to and usage of cloud computation resources (AWS, Azure, Spark)

Data Coordinator, EduAnalytics, GEDGE   *March 2019 – September 2019*
- Set up work flows and quality assurance for education data products published by the World Bank
- Develop software packages to standardize generation of statistics to be published
- Led the work of introducing technologies like Git/GitHub to the team's work flow

SurveyCTO, Dobility, Inc.   **Cambridge, MA, USA**
Data Consultant   *May 2018 – February 2019*
- Designed sensor data (sound, light etc.) data collection features for an Android data collection app
- Designed and implemented software tools for analysis of sensor data

The World Bank Group   **Washington, DC, USA**
Research Assistant, DIME Agriculture, DIME   *December 2013 – June 2015*
- Extensive work in Stata cleaning and analyzing several rounds of large survey data sets collected within the GAFSP Agriculture portfolio
- Substantial work on data quality assurance of primary data collected by field staff
- Worked closely with field staff during design, error checking and updates of surveys coded in SurveyCTO

SHORTER WORK EXPERIENCES

Field Coordinator, Innovations for Poverty Action   **Zomba, Malawi**
Planned and implemented data collection on savings practices in rural Malawi   *Jun – Aug 2012*

Researcher, Aga Khan Agency for Microfinance   **Damascus, Syria**
Analyzed macroeconomic impacts on the institution's operations   *Mar – May 2011*

Consultant, United Nations Development Programme   **Damascus, Syria**
Drafted parts of the UN Development Assistance Framework (UNDAF) report   *Nov 2010 – Jan 2011*

Researcher, Copenhagen Economics   **Stockholm, Sweden**
Gathered, analyzed, and visualized data as empirical arguments in reports   *May 2009 – Jun 2010*

Research assistant, National Institute of Economic Research   **Stockholm, Sweden**
Performed collection of Swedish labor data on collective bargaining agreements   *Jun – Aug 2007*

KEY SKILLS

Stata	*Expert user.* Authored book with best practices, presented at the Stata conference and written frequently downloaded code packages
Git/GitHub	*Expert user.* Admin of World Bank's official account and trained 200+ people
ODK/SurveyCTO	*Expert user.* Developed training materials, been QA on 75+ projects, written Stata command that tests ODK forms and consulted for SurveyCTO
Python	*Advanced user.* Experienced in libraries for data science (pandas, scikit-learn etc.) and for cluster computation (PySpark), written all back-end code for two web apps and given several intro trainings
R	*Intermediate user.* Substantial contributions to several projects led by other researchers
Other tech skills	LaTeX, HTML/CSS/JS/Angular, AWS, Azure, Spark
Languages	Swedish (native), English (fluent)

SELECTED PUBLICATIONS

BOOK

Development Research in Practice   *https://hdl.handle.net/10986/35594*
World Bank Publications (2021)
- DIME Analytics handbook to all aspects of development research data work
- Topics include coding practices, modern collaboration and version-control tools, encryption and data security, research transparency, dynamic documents and a Stata style guide among many other things

SOFTWARE TOOLS

ietoolkit   *https://github.com/worldbank/ietoolkit*
- Stata package developed for impact evaluation analysis. Top 200 downloaded package on SSC
- Routinized common analytical tasks related to analysis, data management, version-control, sample assignment and randomization

iefieldkit   *https://github.com/worldbank/iefieldkit*
- Stata package developed for impact evaluation field work and data collection
- Designed to allow non-technical field staff to contribute to automated quality assurance workflows