David Van Dijcke

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Research interests: industrial organization, econometrics, political economy.
Advisors: Prof. Ying Fan, Prof. Florian Gunsilius.

EMPLOYMENT

Ipsos Public Affairs, LLC — March 2022 – Present
Consulting Analyst — Washington, DC, US

- Assisting Risk Analytics Division (North America) on mobility analytics and remote sensing for various rapid-response projects, including:
  - *World Bank Group, Syria (2023)*: assessment of damage to infrastructure in Syria following Kahramanmaras earthquake using remote sensing methods.
  - *FIFA, Qatar (2022)*: development of an interactive app that reported real-time crowd movements during the 2022 World Cup using mobility, traffic, and social media data.
  - *Ipsos Automotive Center of Excellence (2022)*: development of an interactive app to assess mobility flows to and from Electric Vehicle chargers in the US.
  - *Ukraine, RDNA (2022)*: rapid damage and needs assessment (RDNA) of Ukraine during the 2022 Russian invasion using surveys and remote sensing. Joint with the World Bank, European Commission, and Government of Ukraine.
  - *World Bank Group, Syria (2022)*: assessment of health infrastructure and migrant movement during the Tigray conflict using mobility data.
- Methods used include: big data analytics in Python, PySpark, and Spark using distributed cloud computing on Amazon Web Services; geospatial analysis in GeoPandas and ArcGIS; data visualization and app deployment using R Shiny, Jupyter Notebooks, ArcGis.

University of Michigan — Jan 2023 – Apr 2023
Graduate Student Research Assistant — Ann Arbor, US

- Research assistant to Prof. Florian Gunsilius. Tasks included writing STATA, R, and Python packages for a published paper, and conducting co-authored research at the intersection of econometrics and computer vision.

University of Michigan — Aug 2021 – Dec 2022
Graduate Student Instructor — Ann Arbor, US

- **Courses taught.** *Graduate*: Introduction to Econometric Analysis I (ECON671). *Undergraduate*: Intermediate Introduction to Statistics and Econometrics I (ECON 451).

Bank of England — May 2020 – Present
Academic Visitor/PhD Intern — London, UK

- Research and policy advice using big data to study the impact of COVID-19 on the UK economy at Advanced Analytics Division.
- Results presented before Monetary Policy Committee and published in two Bank of England Staff Working Papers.

University of Oxford (Lady Margaret Hall) — Oct 2019 – June 2020
Tutor — Oxford, UK

- Tutored students from the MPhil in Economics and the BA in Politics, Philosophy and Economics.

Deutsche Bundesbank — Jul-Aug 2019
Research Assistant — Frankfurt, DE

- Co-authored a cross-country study of the cyclicality of labor effort, forthcoming Bundesbank Discussion Paper.

KU Leuven — Feb-Sep 2019
Research Assistant — Leuven, BE

EDUCATION

University of Michigan
PhD, Economics

Sep 2019 – Present
Ann Arbor, US

University of Michigan
Master of Arts, Economics

Aug 2020 – May 2022
Ann Arbor, US

University of Oxford
Probationer Research Student, Economics

Oct 2020–Aug 2021
Oxford, UK

- Equivalent to 2nd year of MPhil in Economics. No grades due to COVID-19.

KU Leuven
BA, Philosophy; MSc Economic Policy; MSc Economics

Sep 2016-Jul 2019
Leuven, BE

- **MSc, Economics** (Major: Research in Economics) .
  - ∗ *Magna cum laude* (83%).
  - ∗ Dissertation awarded best student paper at the Faculty of Economics (2018-19) and top grade (18/20).
- **MSc, Economic Policy** .
  - ∗ *Summa cum laude* (85.77%).
  - ∗ Dissertation published in Belgian Banking and Finance journal and awarded top grade (18/20).
- **BA, Philosophy** .
  - ∗ *Magna cum laude* (81.57%).

The Royal Academy of Fine Arts / Ghent University
BA, Theatre

Sep 2013-Jul 2016
Ghent, BE

- *Cum laude.*

Heilig-Hart Instituut Heverlee / Sint-Albertus College
Latin-Mathematics (Secondary education)

Sep 2007-Jul 2013
Heverlee / Haasrode, BE

HONORS AND AWARDS

WU Best Paper Award of the City of Vienna (2022); William & Flora Hewlett Foundation Award, Rackham Graduate School (2022); Rackham Graduate School Fellowship, University of Michigan (2020-21); Honorary Fellow of the Belgian American Educational Foundation (2020-21); Academic Development Fund, Lady Margaret Hall, University of Oxford (2019); George Webb Medley Travel Fund, Department of Economics, University of Oxford (2019); The Pinxten Award for the best student paper in the Master of Economics or the Master of Advanced Studies in Economics of the Department of Economics (2018-19, KU Leuven)

RESEARCH

Publications

1. Van Dijcke, D., Wright, A. L., & Polyak, M. (2023). Public response to government alerts saves lives during Russian invasion of Ukraine. *R&R, Proceedings of the National Academy of Sciences*

2. Milosh, M., Painter, M., Sonin, K., Van Dijcke, D., & Wright, A. L. (2021). Unmasking partisanship: Polarization undermines public response to collective risk. *Journal of Public Economics*

3. Brzezinski, A., Kecht, V., Van Dijcke, D., & Wright, A. L. (2021). Science skepticism reduced compliance with covid-19 shelter-in-place policies in the united states. *Nature Human Behaviour*, *5*(11), 1519–1527

4. Brzezinski, A., Deiana, G., Kecht, V., & Van Dijcke, D. (2020). The covid-19 pandemic: government vs. community action across the united states. *Covid Economics: Vetted and Real-Time Papers*, *7*, 115–156

5. Van Dijcke, D. (2018). The Impact of ECB Unconventional Monetary Policy on Income Inequality in the Netherlands. *Bank en Financiewezen*, *3*

Working Papers

1. Van Dijcke, D. (2023). On the non-identification of revenue production functions [Under review]. *Bank of England Staff Working Papers*, *1015*

2. Van Dijcke, D., Buckmann, M., Turrell, A., & Key, T. (2023). Vacancy Posting, Firm Balance Sheets and Government Interventions During the COVID-19 Pandemic [To be submitted]. *Bank of England Staff Working Papers (Forthcoming)*

3. Van Dijcke, D., & Wright, A. L. (2022). Profiling Insurrection: Characterizing Collective Action Using Mobile Device Data [To be submitted]. *Available at SSRN 3776854*

4. Van Dijcke, D., & Wright, A. L. (2020). Using Mobile Device Traces to Improve Near-Real Time Data Collection During the George Floyd Protests [Research note]. *Available at SSRN 3621731*

5. Brzezinski, A., Kecht, V., & Van Dijcke, D. (2020). The cost of staying open: voluntary social distancing and lockdowns in the US. *Brzezinski, Adam, Kecht, Valentin, and Van Dijcke, David (2020)." The Cost of Staying Open: Voluntary Social Distancing and Lockdowns in the US." Economics Series Working Papers*, *910*

6. Lewis, V., & Van Dijcke, D. (2019). Work effort and the cycle: Evidence from survey data [To be submitted]. *Deutsche Bundesbank Discussion Papers (Forthcoming)*

OTHER PROFESSIONAL ACTIVITIES

Referee

Journal of European Economic Association, Harvard Kennedy School Misinformation Review.

PRESENTATIONS

2023 ASSA 2023, New Orleans, Topics in Political Economy and Labor Markets and the Macroeconomy sessions; Dewey Data Research Seminars.
2022 EEA-ESAM Congress, Bocconi University; Econometric Society Australasia Meeting (virtual); ESCoE Conference on Economic Measurement, University of Strathclyde; University of Michigan IO Lunch; Bank of England.
2021 NBER Summer Institute 2021, National Security Session (virtual); Bank of England; University of Michigan IO Lunch; Indeed Policy Partners Workshop (virtual).
2020 2020 Banca d'Italia and Federal Reserve Board Joint Conference on Nontraditional Data & Statistical Learning (virtual); SafeGraph Data Consortium; University of Oxford Macro Lunch.
2019 Minsky at 100: Revisiting Financial Stability - Università Cattolica del Sacro Cuore Milano; Deutsche Bundesbank.

QUALIFICATIONS

Computer Skills *Advanced*: R, Python, MATLAB, Stata, LaTeX, Excel, Spark (PySpark); *Intermediate*: Linux, Git, R Shiny, AWS; *Basic*: Julia, C++, Bash, Google Colab, Google Cloud Platform, Google BigQuery, SQL, Markdown; *Other*: machine learning, numerical methods, web scraping, big data, geospatial analysis (QGIS and R-GIS).
Certifications MIT 6.00.2x Introduction to Computational Thinking and Data Science (edX); MIT 6.00.1x Introduction to Computer Science and Programming Using Python (edX); MIT 6.86x Machine Learning with Python (edX).