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 – Present
Graduate Student Instructor   Ann Arbor, US

- **Courses taught.** *Graduate*: Applied Microeconometrics (ECON 675); Introduction to Econometric Analysis I (ECON671) (2x). *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

Graduate Research Award, University of Michigan Department of Economics (2023); 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. *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. Gunsilius, F., & Van Dijcke, D. (2023). Free discontinuity design [To be submitted]

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

3. 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)*

4. Sonin, K., Van Dijcke, D., & Wright, A. L. (2023). Isolation and insurrection: How partisanship and political geography fueled January 6, 2021 [To be submitted]. *University of Chicago, Becker Friedman Institute for Economics Working Paper*, *(2021-13)*

5. 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*

6. 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*

7. 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 Econometric Society North America Meeting 2023, UCLA; Bank of England New Methods Seminar; ASSA 2023, New Orleans; Dewey Data Research Seminars; Ipsos Center for Analytics Excellence.
2022 EEA-ESAM Congress, Bocconi University; Econometric Society Australasia Meeting; ESCoE Conference on Economic Measurement, University of Strathclyde; Bank of England.
2021 NBER Summer Institute 2021, National Security Session; Bank of England; Indeed Policy Partners Workshop.
2020 2020 Banca d'Italia and Federal Reserve Board Joint Conference on Nontraditional Data & Statistical Learning; 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), AWS; *Intermediate*: Linux, Git, R Shiny; *Basic*: Julia, C++, Bash, Google Cloud Platform, Google BigQuery, SQL, Markdown; *Other*: machine learning, numerical methods, web scraping, big data, geospatial analysis (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).