

# David Van Dijcke

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Research interests: industrial organization, econometrics, political economy.

Advisors: Prof. Ying Fan, Prof. Florian Gunsilius.

## EMPLOYMENT

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### 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, Gaza (2023–4)*: assessment of damage to infrastructure in Gaza using SAR data following Israel-Hamas war. Final UN/World Bank report received global news coverage.
  - \* *World Bank Group, Nepal and Afghanistan (2023)*: rapid damage and needs assessment (RDNA) using synthetic-aperture radar (SAR) data from satellites following series of earthquakes.
  - \* *World Bank Group, Syria (2023)*: RDNA in Syria using mobile device data following Kahramanmaras earthquake using remote sensing methods. Final report received global news coverage.
  - \* *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)*: RDNA of Ukraine during the 2022 Russian invasion using surveys and remote sensing. Joint with the World Bank, European Commission, and Government of Ukraine. Final report received global news coverage.
  - \* *World Bank Group, Syria (2022)*: assessment of health infrastructure and migrant movement during the Tigray conflict using mobile device 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 UK labor market and COVID-19 economy at Advanced Analytics Division.
- PhD summer internships in 2020, 2021, and 2023.
- 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

Updated: August 23, 2024

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

## KU Leuven

Research Assistant

Feb-Sep 2019

Leuven, BE

## EDUCATION

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### University of Michigan

PhD, Economics

May 2022 – Present

Ann Arbor, US

- March 2024: Visiting Research Student Collaborator at Princeton University. Sponsor: Prof. Ulrich K. Müller.

### University of Michigan

Master of Arts, Economics

Aug 2020 – May 2022

Ann Arbor, US

### University of Oxford

Probationer Research Student, Economics

Oct 2019–Aug 2020

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

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Rackham Predoctoral Fellowship, Rackham Graduate School, University of Michigan (2024, 12 months of tuition + stipend); WU Best Paper Award of the City of Vienna (2022); Honorary Fellow of the Belgian American Educational Foundation (2020-21); 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

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### 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 Dijke, 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 Dijke, 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 Dijke, D. (2018). The impact of ECB unconventional monetary policy on income inequality in the Netherlands. *Bank en Financiewezen*, 3

## Working Papers

1. Van Dijke, D., Gunsilius, F., & Wright, A. L. (2024). Return to office and the tenure distribution [Under review]. *University of Chicago, Becker Friedman Institute for Economics Working Paper*, (2024-56)
2. Gunsilius, F., & Van Dijke, D. (2024). Free discontinuity regression [Under review]
3. Van Dijke, D. (2023). On the non-identification of revenue production functions [Under review]. *Bank of England Staff Working Papers*, 1015
4. Van Dijke, 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)*
5. Sonin, K., Van Dijke, D., & Wright, A. L. (2023). Isolation and insurrection: How partisanship and political geography fueled January 6, 2021 [Under review]. *University of Chicago, Becker Friedman Institute for Economics Working Paper*, (2021-13)
6. Van Dijke, 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*
7. Lewis, V., & Van Dijke, D. (2019). Work effort and the cycle: Evidence from survey data [Under review]. *Deutsche Bundesbank Discussion Papers (Forthcoming)*

## OTHER PROFESSIONAL ACTIVITIES

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### Referee

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

## PRESENTATIONS

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**2024** Remote Work Conference, Stanford University; New Connections in the Study of Political Economy, Panama; ESIF Economics and AI+ML Meeting, Cornell University; ASSA 2024, San Antonio.

**2023** Econometric Society European Winter Meeting 2023, University of Manchester; Econometric Society North America Summer Meeting 2023, UCLA; New Methods Seminar, Bank of England; 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

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**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).

## SOFTWARE

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1. R DiSCos package: Distributional Synthetic Controls estimation.
  - Available at <https://www.davidvandijcke.com/DiSCos/>