# JOËL K. KAZADI
Economist | Data Analyst

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## SUMMARY

Highly passionate about statistical analysis, my experience as economist, coupled with my education in statistical modeling, has equipped me with a robust skill set in the following areas: (i) Economic Analysis, (ii) Data Science, (iii) Machine Learning, (iv) R/Python programming, and (v) Dashboarding/Reporting. Supporting private, public, and international firms in projects that require data collection and empirical analysis for strategic decision-making is my aim.

## WORK EXPERIENCE

**Feb 2023 – Present**

**Senior Economist, Macroeconomic Analysis Division, Research Department, Direction Générale de la Dette Publique (DGDP),** dgdp-rdc.org, Kinshasa – DRC.

*Responsibilities*:
- Analyze the public debt portfolio in order to assess its sustainability;
- Suggest strategies on public debt structuring in the medium and long term;
- Participate in negotiation rounds of public debt securities (domestic and foreign);
- Evaluate project financing offers to determine their concessionality;
- Contribute to the drafting of the quarterly statistical report on public debt.

**Mar 2022 – May 2022**

**Statistics Assistant, Social Housing Survey,** Kinshasa – DRC.

*Responsibilities*:
- Data preprocessing (dealing with missing values, outliers, and duplicates);
- Visualization of data (graphs/plots and statistical summaries);
- Explaining the determinants of purchase intention (logistic regression);
- Participation in the writing of the final draft of the survey report.

**Mar 2021 – Jan 2023**

**Economist-Analyst, Congo Challenge,** congochallenge.cd, Kinshasa – DRC.

*Responsibilities*:
- Participate in the drafting of monthly and quarterly economic bulletins;
- Manage and update the database of the four macroeconomic sectors;
- Write letters/notes as instructed by the Top-Management.

**Nov 2021 – Jan 2023**

**Editorial Secretary, Review "Congo Challenge",** rcc.cd, Kinshasa – DRC.

*Responsibilities*:
- Receive scientific papers submitted by email;
- Transmit scientific papers to external referees;
- Report on the editorial process of the Journal.

**Oct 2021 – Jan 2023**

**Volunteer, MAPON Fondation,** fondationmapon.org, Kinshasa – DRC.

*Main achievement*:
- Contribution to the implementation of a Machine Learning algorithm to predict the eligibility of applicants for the MAPON Foundation scholarship based on their profiles (age, academic performance, language level, etc.).

**Jun 2018 – Jul 2018**

**Officer (intern), Budgetary Control Department,** Ministry of Budget, Kinshasa – DRC.

## EDUCATION AND TRAINING

**Aug 2025 (*expected*)** **Master of Science (MSc.) in Statistics and Data Science (Postgraduate degree),**
International University of Applied Sciences, Erfurt, Germany, iu.de.
- *Main matters*: Advanced Statistics, Data Science, Machine Learning, Python programming.

**Feb 2023** **Training in Machine Learning with Python,** Online teaching platform "UDEMY",
Certificate of learning (*completed*).
- *Technical skills*: Training machine learning algorithms and Evaluating model performance.

**Apr 2022** **Training in Data Science with R,** Online teaching platform "UDEMY",
Certificate of learning (*completed*).
- *Technical skills*: Data cleaning, Statistical analysis, Story telling, and Communication skills.

**Jul 2021** **Graduate degree in Economics (Option: Mathematical Economics, BAC+5),**
Mention: Distinction (75% – rank 1 of the class), University of Kinshasa, DRC, unikin.ac.cd.
- *Main matters*: Microeconomics, Macroeconomics, Econometrics, Management.

**Sept 2018** **Undergraduate degree in Economics and Management (BAC+3),**
Mention: Distinction (72% – rank 1 of the class), University of Kinshasa, DRC, unikin.ac.cd.
- *Main matters*: Mathematics, Statistics, Introduction to Economics, Computer Science.

**Aug 2015** **High School Diploma in Commercial and Administrative,**
Mention: Distinction (71%), Saint Georges College, Kinshasa – DRC.


## PARTICIPATION IN CONSULTANCY STUDIES

**Dec 2022** **Impacts of Covid-19 on the DRC mining industry: Analysis of short, medium and long term effects,** commissioned by the DRC government, with the support of UNDP.
Role: Junior Consultant (Congo Challenge).

**May 2022** **Five-Year Transportation Plan,** commissioned by the DRC government, with the support of AfDB. Role: Technical assistant (Congo Challenge).

**Mar 2022** **Fiscal space and public expenditure review in the Democratic Republic of Congo,** commissioned by the DRC government, with the support of UNICEF.
Role: Technical assistant (Congo Challenge).


## COMPUTER SKILLS

**Text processing**: MS-Word and LaTeX, **Applied Statistics**: MS-Excel and SPSS, **Econometrics**: EViews and STATA, **EDA**: MySQL and Power BI, **Data Science**: R and Python.


## LANGUAGE SKILLS

**English**: Professional, **French**: Native, **Lingala**: Fluent.


## RESEARCH OUTPUTS

**Nov 2023** **Initiation au Deep Learning : Des équations mathématiques aux codes Python.**
*Conference Paper* (Download here).

**Sept 2023** **Dette publique et Croissance économique en RDC.** *Working Paper* (Download here).

**Jun 2023** **Predicting election results: An improved popularity index.**
*Working Paper* (Download here).

**Aug 2022** **Régression régularisée avec R.** *Conference Paper* (Download here).

| Feb 2022 | **General formula for the *p*-derivative of a univariate polynomial function of degree *n*.** *Working Paper* (Download here). |
|---|---|
| Oct 2021 | **Is the DRC Government's management of the COVID-19 pandemic effective?.** *Working Paper* (Download here). |
| Jul 2021 | **Dépenses publiques et Croissance économique en RDC : Loi de Wagner *versus* Multiplicateur de Keynes.** *Bachelor's thesis* (Download here). |
| Dec 2020 | **Capital Mobility in Africa: A re-examination of the Feldstein-Horioka puzzle.** *Working Paper* (Download here). |
| Dec 2020 | **Hypothèse de la Parité des Pouvoirs d'Achat : Le cas de la République Sud-Africaine et la Chine.** *Seminar Paper* (Download here). |
| Apr 2019 | **Essai d'estimation d'une fonction de demande marshallienne du poisson.** *Seminar Paper* (Download here). |

## REFERENCES

**Joseph Tasse.** *Head of Research Department, Direction Générale de la Dette Publique.* Email: josephtasse@yahoo.fr. Tel: +243 898-986-287.

**Michel-Ange Lokota Ilondo.** *Director-Manager, Congo Challenge.* Email: lokotailondo@congochallenge.cd. Tel: +243 825-000-191.

**Blandine Bawawana Bavwidinsi, PhD.** *Faculty of Economics, University of Kinshasa.* Email: bawawana.unikin@gmail.com. Tel: +243 825-431-847.

## DECLARATION OF HONNOR

I certify on my honor that the above information accurately reflects my situation, qualifications and experience.

Kinshasa, May 14, 2024

**Joël K. Kazadi**