


# Orntangar NGUENAMADJI

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Lecturer and Researcher with over **7 years of academic experience** in mathematics, economics, and decision theory across leading universities. Experienced in designing and delivering courses in **mathematical economics, microeconomics, and applied statistics**, with a strong focus on analytical rigor and student engagement. My research combines **quantitative modeling, dynamic systems, and decision theory**, bridging theoretical and applied approaches. Previously I served as a **Monitoring and Evaluation Analyst at UNDP**, where I applied advanced data analysis to assess program impact, produce evidence-based insights, and support policy development. Committed to academic excellence, interdisciplinary research, and the integration of quantitative methods into social and economic analysis.

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## Qualifications

- PhD in Applied Mathematics (Université Paris 1 Panthéon–Sorbonne) specializing in Mathematical Economics and Decision Theory.
- 7+ years of teaching in Mathematics, Microeconomics, and Quantitative Methods at undergraduate and graduate levels.
- Research expertise in dynamic macroeconomic modeling, CES production systems, and quantum-theoretic approaches to decision-making.
- Applied experience in Data Science and Monitoring & Evaluation at UNDP, combining analytical modeling with policy-oriented insights.
- Skilled in Python-based quantitative analysis and empirical simulation for economic and financial data.
- Bilingual English–French, with strong international and interdisciplinary collaboration skills.

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## Work experience

**University Paris 1 Panthéon–Sorbonne, France** **2024-12 – present**  
**TEMPORARY LECTURER AND RESEARCH FELLOW (ATER)**

- Deliver tutorials and applied sessions in linear algebra (undergraduate year 2) and insurance economics (undergraduate year 3).
- Teach microeconomics to master's students in the quantitative economics and mathematics (QEM) program.
- Supervise students, design coursework, and assess academic performance.
- Contribute to departmental research activities in mathematical economics, decision theory, and quantitative modeling.

**United Nations Development Programme (UNDP), Chad** **2019-03 – 2023-12**

**MONITORING AND EVALUATION EXPERT**

Collect, process and analyze data relating to the implementation and results of a local development and financial inclusion program in order measure indicators, draw conclusions, make relevant predictions and recommendations for informed decision-making

- Draft quarterly and annual progress and monitoring and evaluation reports
- Actively contribute to the implementation of activities and capacity building of partners.
- Support the management of the development program.

**St Charles Lwanga University, Sarh/chad**

**2018-12 – 2019-04**

**ACADEMIC ASSOCIATE**

- Develop teaching programs;
- Plan and supervise academic programs;
- Manage academic resources;
- Establish a monitoring and evaluation system for academic programs;
- Analysis of academic data to identify areas for improvement

**Polytechnic University of Mongo, Mongo/chad**

**2017-01 – 2018-11**

**LECTURER IN MATHEMATICS**

- Provide lectures and tutorials in mathematics;
- Supervise and support students;
- Develop course programs and teaching materials.

**Office for Consulting, Research and Studies, Chad**

**2016-06 – 2017-01**

**EVALUATOR CONSULTANT**

- Evaluation and field data collection missions;
- Writing evaluation and baseline studies reports;
- 12 projects evaluated and 4 baseline studies.

**Catholic University of Central Africa, Cameroon**

**2013-10 – 2014-09**

**LECTURER IN MATHEMATICS**

- Lectures in general mathematics, probability and statistics;
- Supervise, evaluate and support student.

**University of Évry Val d'Essonne, Évry, France**

**2012-09 – 2013-08**

**POSTDOCTORAL RESEARCHER**

- Labex-MME-DII Research work (Mathematical and Economic Models of Dynamics, Uncertainty and Interactions)
- Tutorials: Statistics for undergraduate students

**University of Paris 1 Panthéon-Sorbonne, France**

**2010-09 – 2012-08**

**TEMPORARY TEACHING AND RESEARCH ASSOCIATE**

- Research in mathematical economics;
- Responsible for tutorials in microeconomics and mathematics.

**University of Paris 1 Panthéon-Sorbonne, France**

**2007-09 – 2010-08**

**DOCTORAL RESEARCHER AND TEACHING ASSISTANT**

- Thesis in mathematical economics: general equilibrium dynamics;
- In charge of tutorials in mathematics and microeconomics in Bachelor's and Master's degrees respectively.

## Education

2022-09

**Executive Master in Data Engineering**

ISAE-Supméca - Institut supérieur de mécanique de Paris

2011-05

**Doctor of Philosophy (Ph.D.) in Applied Mathematics**

University of Paris 1 Panthéon-Sorbonne (2007 - 2011)

2007-07

**Master's degree, Applied Mathematics**

University of Paris 1 Panthéon-Sorbonne (2006 - 2007)

2011-05

**Master's degree in Mathematics**

The University of Yaoundé 1 (2001 - 2002)

## Certifications

- Entraîner son cerveau à la performance
- Google Advanced Data Analytics
- Découvrir l'analyse de données
- 4 secrets pour une meilleure
- Découvrir le mentorat
- Google Advanced Data Analytics Capstone

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## Publications

- « Discrete Walrasian Exchange Process ». (Avec J.M. Bonnisseau) *Economic Theory* (2013), 52 (3), 1091-1100 ;
- « On the Uniqueness of Local Equilibria ». (with J.M. Bonnisseau) *Journal of Mathematical Economics* (2010), 46 (5): 623-632;
- “Monetary Policy under Myopia “. (With G. Giraud) CES Working paper, 2011.11

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## Research Interests

- **Mathematical Economics and Decision Theory** — modeling of beliefs, preferences, and context-dependent choices in dynamic environments.
- **Quantum-Theoretic and Information-Based Models of Decision-Making**, exploring indeterminacy, context effects, and belief dynamics in economic behavior.
- **Dynamic Macroeconomic Systems** with CES production, endogenous productivity, and demographic feedbacks.
- **Statistical and Network-Based Growth Models**, focusing on coordination, instability, and information diffusion.
- **Applied Data Science for Development Economics**, linking empirical analysis, simulation, and policy evaluation.