


Abdi- Basid IBRAHIM ADAN

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Professional Summary






Interdisciplinary Researcher-Founder & CEO of HMD. With a Master's degree in Statistical and Econometric Methods (*Magna Cum Laude*) and over seven years of multidisciplinary research experience — including positions as **Research Intern at CRC (France)** and **Research Associate at CERD (Djibouti)** — I have built a publication record of 9+ articles spanning **Energy Systems, Climatology, Groundwater Hydrology, Philosophy, and Literature.**

My technical expertise includes **R, Python, MATLAB, and GIS.** This adaptive, trans-disciplinary methodology is deployed at **HMD**, where I am leading the development of a **patent-protected modular vehicle architecture** (TRL3, advancing to TRL4).

Entrepreneurial Initiatives

- 2024– Present** **Founder, System Architect & CEO, HMD | Next Generation Mobility, Stealth Mode**
 - Leading the conceptual and strategic development of a **patent-protected modular vehicle architecture** (TRL3, advancing to TRL4).
- 2025– Present** **Founder & Editor-in-Chief, The ABC Insights Journal**
 - Leading a strategic academic initiative with a tripartite structure: **Statistics, Econometrics, and Philosophy.**
 - Publishing peer-reviewed, open-access scholarship in English, French, and Arabic.
- 2017– Present** **Founder & Executive Director, The Abdi-Basid Courses Institute (tABCi)**
 - Developing advanced methodologies to democratize expertise in applied statistics, econometrics, and data science.
 - Creating specialized training programs in data mining and interdisciplinary research methods.

Technical Skills

-  **Data Science** Python (Pandas, NumPy, Xarray, Scikit-learn), R (tidyverse), SQL, MATLAB, JavaScript
-  **Statistical Modeling** SAS, Stata, EViews, SPSS
-  **Geospatial Analysis** ArcGIS, GeoDa, AERMOD, Panoply, Geomatica, Google Earth Engine
-  **Machine Learning** ANN, Multiple Linear Regression, Nonlinear/Nonparametric Regression, Predictive Modeling, Bayesian Methods, Markov Chain, Monte Carlo Simulation, Bias Correction, Clustering, Data Mining
-  **Communication** Scientific Speaker and Writer (English & French)

Professional Experience

- 2018–
Present **Research Associate**, *CERD (Modeling Laboratory IST then ORREC)*, Djibouti
- Performed national-scale studies on precipitation patterns, atmospheric pollution dispersion modeling, ground water vulnerability, renewable energy production, and green hydrogen and ammonia feasibility projects in Republic of Djibouti.
 - Co-authored multiple peer-reviewed articles and trained ten researchers in R-based data mining.
- Feb–May
2024 &
Apr–Jun
2025 **Research Intern**, *Climate Research Center (CRC), University of Burgundy*, Dijon, France
- Conducted comprehensive study on *Variability of Air Temperatures*, including rigorous daily quality control.
 - Investigated interactions between oceanic circulation patterns and temperature variability through advanced time-series analysis (monthly cycle computation, deseasonalization, detrending).

Education

- 2016–2018 **Master's Degree in Statistical and Econometric Methods**, *Cheikh Anta Diop University*, Dakar, Senegal, *Magna Cum Laude*
- 2014–2015 **Bachelor's Degree in Statistics and Computer Science**, *University of Djibouti*, Djibouti, *High Honors*

Selected Publications

Peer-Reviewed Journal Articles

- 2026 Awaleh, M. O., Omar, G. M., **Adan, A.-B. I.**, et al. Groundwater vulnerability assessment of the Djibouti aquifer system. *Groundwater for Sustainable Development*, 32, 101564. [DOI](#)
- 2024 Dabar, O. A., Awaleh, M. O., Waberi, M. M., **Adan, A.-B. I.**, et al. Techno-economic and environmental assessment of green hydrogen and ammonia in Djibouti. *Energy Reports*, 12, 3671–3689. [DOI](#)
- 2022 Dabar, O. A., **Adan, A.-B. I.**, et al. Evolution and trends of meteorological drought over Djibouti (1961–2021). *Climate*, 10(10), 148. [DOI](#)
- 2022 **Adan, A.-B.**, et al. Étude comparative du coût de production d'hydrogène vert en république de Djibouti. *Science et Environnement*, 37, 46–68. [Lien](#)

Books

- 2025 **Adan, A.-B. I.** *Mystères Dévoilés : Vérités Novatrices*[Mysteries Unveiled, Innovative Truths: Revelations of the Laws of Human Cosmology, New World Visions]. Kindle Direct Publishing. [Amazon](#)
- 2018 **Adan, A.-B.** *Croissance économique et développement durable en Afrique*[Economic Growth and Sustainable Development in Africa: Statistical and Econometric Analyses]. Amazon KDP. [Amazon](#)

Languages

- French** Full Professional Proficiency
- English** Full Professional Proficiency
- Arabic** Intermediate