

Idriss J. Aberkane, Ph.D

International consultant, speaker and research engineer holding three Ph.Ds with more than 170 paid talks from China to Africa and Europe and five TEDx talks. Also academic (Paris-Saclay and affiliated to Stanford), entrepreneur (social and startup) journalist (Le Point) and published author (2 booklets published in French, English, Chinese and Korean, 2 book chapters, 1 book and 2 other in preparation). Expert in complex systems, knowledge economy, blue economy, sustainable development, biomimetics and neuroergonomics. Notable clients include PwC, Mazars, Eiffage, MEDEF, Chanel, Sonepar, GSK, Engie, Endemol, AT Kearney, Alexander Forbes, BCG, BPCE, Dassault, etc...

French, born May 23rd 1986.

French (native) English (fluent) Italian (semi-fluent) Spanish (advanced) Chinese (notions)

idriss.aberkane@polytechnique.edu

idrissaberkane.org

Aberkane Sas.

2 rue de l'épi d'or

94800 Villejuif, Grand Paris

France

Appointments

Advisor to the CEO

2015...

Hemarina SA

Present

World-leading oxygen carrier solutions for the biomedical industry (Morlaix, France)

Invited Expert: Biomimicry

2015

Economic, Social and Environmental Council of the French Republic

Delivered one keynote speech and one Council Hearing which generated a 400k audience. An English translation is [available on my website](#)

Professor of Knowledge Economy

2014...

Mazars University

Present

"the NExt MBA program" (CLIP accredited EMBA) - Silicon Valley learning expedition (San Francisco, Palo Alto) teaching C-level executives of Saint-Gobain, Mazars, Axa, EDF, Manpower, l'Oréal etc. Course: Knowledge Economy, Biomimicry, History of Silicon Valley...

Ambassador

2014...

Unesco-Unitwin Complex Systems Digital Campus

Appointed by Prof. Pierre Collet & Paul Bourguine. Networked with more than 30 universities on 4 continents. Covered the ICM 2014 in Seoul

Scientific Advisor for Biomimicry	2014
The SeaOrbiter project	2016
Met with Cabinet members of the French government and SeaOrbiter's main funders (including Rolex). The SeaOrbiter project was featured on the cover of Popular Science	
Expert: Neuroergonomics	2014
Endemol	2016
On-Screen Scientific Expert for the French instalment of "The Brain" franchise. Cumulated 12 million viewers in three episodes.	
Expert: Knowledge Economy	2014...
Association Progrès du Management (Paris)	Present
Delivered more than 50 paid courses on Knowledge Economy to French entrepreneurs (from SME to multinationals) in Paris, Shanghai, Casablanca, Istanbul, Bangkok, Singapore, Saint-Denis, Port Louis etc.	
Columnist and Editorialist	2014...
Le Point (Paris)	Present
Wrote more than 150 articles in two years, was featured on the cover on October 2014 and received a portrait in January 2014. Writing about science, society, economy and politics.	
Co-founder and CTO	2013...
Scanderia .ltd. (Paris)	Present
Neuroergonomic serious gaming and corporate war rooms. Notable clients include Orange Telecom, Monin, Amundi, Sodebo, Jarden	
Invited lecturer	2013
Neoma Business School	
Course: Innovation management, change management & knowledge economy. (Masters Level - 40hrs)	
Research Engineer (CIFRE)	2012
Neuroergonomics and Biomimetics	2015
Conducting applied research (confidential and non-confidential) at Ecole Polytechnique/Paris-Saclay University and CNRS - Centre de Recherche en Gestion. Also appointed to : Institut des Systèmes Complexes (Paris).	
Lecturer in Business Administration	2011...
CentraleSupélec / Paris-Saclay University	Present
Course: the geopolitics and economy of knowledge (Masters Level - 40 hrs) Voted best course of the Masters by the students	

International Consultant and Speaker	2009...
Aberkane SAS	Present
Non-confidential clients include: the Jarden Group, Eiffage (c-level), Alexander Forbes (c-level), Pwc (c-level), Mazars (c-level), AT Kearney, Deputy J-M Fourgous, Orange Telecom, Engie (c-level), Amundi (c-level), Monin (c-level), BPCE, etc.	
Invited lecturer	2009
ECE school of electrical engineering (Paris)	2014
Course: the geopolitics and economy of knowledge	
Co-founder and chairman	2009...
Eirin International .Ltd.	Present
Interest-free microventure capital	
Richard-Toll, Senegal. Met with three Senegalese Ministers including Haidar el Ali (Sustainable Development). Providing micro venture capital to local farmers since 2009. Planning on plating 10k Eucalyptus trees by 2017	
Affiliated Scholar	2007...
The Kozmetsky Global Collaboratory	Present
Stanford University Working on shareable prosperity : theory and practice	
Invited Speaker	2007
Scouts Musulmans de France	2011
Founded by Sufi Master Khaled Bentounès	

Education

Ph.D - Applied Complex Systems Science and Cognitive Neurosciences

Ecole Polytechnique ('15) / Paris-Saclay University ('16)¹
"Neuroergonomics and Biomimetics for Knowledge Economy: Why? How? What?" Directed by Prof Pierre-Jean Benghozi and Prof. Paul Bourguine; defended before 7 jury members. Partly confidential.

Ph.D - Comparative Literature and Mediterranean Studies

Strasbourg University ('14)
"Ballade de la Conscience entre Orient et Occident: une perspective soufie sur la conscience occidentale, connectant la Kasidah de Richard Francis Burton et le Waste Land de T.S. Eliot" Directed by

¹ Ecole Polytechnique, France's #1 school of engineering merged with Paris-Saclay University in 2015, effective 2016. The Ecole Polytechnique predefense was completed in 2015, The Paris-Saclay defense was completed in 2016.

Prof. Eric Geoffroy and Prof. Patrick Laude ; defended before 7 jury members

Ph.D - Geopolitics & Diplomacy

Centre d'Etudes Diplomatiques et Stratégiques Paris ('13)
"Noopolitik and the New Great Game" Professors for the Qualification courses included 2 NATO Generals, three former Ministers, four former Ambassadors, one former advisor to the President of the Russian Federation etc. Directed by Prof. Mahmoud Musa. This thesis was a scholarly continuation of my military service.

M.Sc. - Cognitive Neurosciences and Systems Biology

Paris-Descartes University
Ecole Normale Supérieure Paris ('09)
Intern at Cambridge University (Prof Lorraine Tyler)

M.A. - Neuropsychology

Ecole des Hautes Etudes en Sciences Sociales
Ecole Normale Supérieure Paris ('08)
Intern at the Collège de France

Visiting Scholar - Dept. of Mathematics

Stanford University ('07)
Invited by Prof. Solomon Feferman, confirmed by prof. Yakov Eliashberg. 3 invited talks.

B.A. -Theoretical Biology

Paris-Saclay University (Orsay) for the first two years,
then Ecole Normale Supérieure and Paris-7 ('06)
Intern at Cambridge University (Prof. Brian Moore)

Military Experience

Préparation Militaire Supérieure -
Reserve Officer of the French Navy (2009)
Specialty: International Relations
Also received military firefighting training
NATO Rank upon completion: OF-1

Publications

Books

Robert-Laffont (Paris)
Popular Science (Cognitive neurosciences and education science)

Title: "Libérez votre Cerveau" (Free your Brain)
to be published on October 6th 2016

Grasset (Paris)
Philosophy
Title is still confidential
to be published in 2017

Eyrolles (Paris)
Knowledge Economy
Title is still confidential
to be published in 2017

Book chapters

L'avenir c'est demain: 27 propositions pour 2035 Collective work - CERA, Autrement Ed.
Jan. 2016

L'Economie de la Connaissance: une deuxième Renaissance - ESSEC Business School
Imagination Weeks 2015 p. 123-136

Reviewed Booklets

Economy of Knowledge - Fondapol 2015 available in French, Chinese and Korean

Noopolitics: the power of knowledge - Fondapol 2016 available in French, Chinese and Korean

Reviewed journals and published congresses

Aberkane, I.J. *On the multiscale synergy of the Blue Economy in terms of knowledge flow* CS-DC 2015 (conference on complex system) Arizona Oct. 2015 to be published in the Springer Lecture Notes Series in Complexity 2016

Aberkane, I.J. *A simple paradigm for nooeconomics, the economy of knowledge* CS-DC 2015 (conference on complex system) Arizona Oct 2015 to be published in the Springer Lecture Notes Series in Complexity 2016

Aberkane I.J. *Botcrafting and Botbreeding: a simplified economics of evolutionary algorithms* Sens Public. May 2016

Aberkane I.J. *Hyperwriting, a multiscale writing with the method of loci* . Sens public. Jan. 2016.

Aberkane, I.J. *A simple Paradigm for Noopolitics : the Geopolitics of knowledge* e-International Relations Oct 2015.

Aberkane, I.J. *Grandeur d'âme et désagrégation du moi. Autour du film Kill Bill : Volume 2 (USA 2004) de Quentin Tarantino* Sens Public Mar. 2015.

Aberkane, I.J. *On the 'war on war' in modern geopolitics* e-International Relations Jan. 2012 also *De la guerre à la guerre dans la géopolitique moderne* Sens Public Feb 2010.

Aberkane, I.J. *An Optimistic memo on the Chinese Noopolitik: 2001-2011* e-International relations Jun 2011

Aberkane, I.J. *Brzezinski on a U.S. Berezina: anticipating a new, New World Order* e-International Relations Mar. 2011.

Aberkane, I.J. *"Ortolano Eterno"- Invariants soufis dans la métaphysique des lettres modernes* p119 in *Revue Horizons maghrébins* n°65/2011– *Le droit à la mémoire. Soufisme et spiritualités en contexte de postmodernité.*

Aberkane, I.J. *Yin or Yang ? China and the Muslim world* *Revue e-International Relations* Apr. 2009.

Aberkane, I.J. *L'Homme dans la révolution et la révolution dans l'Homme au 20e siècle.* Colloque "Philosophies du cinéma politique" (CIPh, novembre 2007) Sens Public May 2008.

Brian Glasberg, Brian C.J. Moore, Candida Caldicot-Bull, Idriss Aberkane Samantha Pinker *Dominance region for pitch at low fundamental frequencies: Implications for pitch theories* *The Journal of the Acoustical Society of America.* 01/2007.Cambridge

Idriss Aberkane, Cedric Saule *Valorisation du background dans l'apprentissage des mathématiques : approche conceptive.* in *Proceedings CIEAEM 58 –SRNI, Czech Republic, July, 2006* *Quaderni di Ricerca in Didattica (Matematica)*, Supplemento n. 2, 2009. G.R.I.M. (Department of Mathematics, University of Palermo, Italy) .

Aberkane I.J. *Détournement du jeu vidéo à des fins pédagogiques : l'affect, l'acquisition de règle et la compréhension d'un système de règles.* *Proceedings CIEAEM 57 – Italie Piazza Armerina, Juillet 2005.* G.R.I.M. (Department of Mathematics, University of Palermo, Italy).

Reviewer for: Virtual Reality, Phenomenology and Cognitive Sciences, CSDC.

Jury for: the Jacques Rougerie Foundation (2014), Eiffage innovation trophy (2015), Orange Telecom serious game challenge (2009)

Directed : more than 20 Paris Saclay M.Sc thesis defended with industrial partners such as Airbus, Thalès, Total, Vallourec, Microsoft, Google, DCNS, etc.

In the Media

TV

French: France 2 (on Knowledge Economy), France 5 (on Neuromarketing), CanalPlus (on Artificial Intelligence), TF1 (on Neuroergonomics), BFMTV (on Artificial Intelligence)

South African: CNBC (on Knowledge Economy)

Radio

French: France Inter (on Biomimicry, Native Diplomacy, Knowledge Economy, Blue Economy), Europe 1 (on Serious Gaming),

South African: The Money Show (Bruce Whitfield) on the Blue Economy

Swiss: RTS (on Biomimicry)

Press

Citation

Le Monde, 20 Minute, Mail&Guardian, TWeb Africa etc.

Full portraits

Ouest France

Corse-Matin

Nagelmackers

Le Courrier de l'Ouest

La Nouvelle République

L'Etudiant

Cover

Le Point (Oct. 2015)