

Ounsi EL DAIF

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PhD in Semiconductor Physics (EPFL, Switzerland). Physicist, sustainability multilingual consultant.
French/Lebanese national. Born 1979, Sèvres, France

- *Scientist solar photovoltaic energy: Performed Research & Development on scientific innovation, technologies, markets, and policies*
- *Social Entrepreneur in the Middle East (Company and NGO founder) - Familiar with local regulations.*
- *Mentor of innovators and start-uppers (Technological innovation, New energies, Green tech).*

Professional Activities

2017 present	Founder and Co-Manager, Lebanese Association for Environmental and Social Justice; Beirut, Lebanon <ul style="list-style-type: none">• Training session• Funded projects
2015 Present	Founder and CEO, Eedama Advisors Limited; Masdar City, Abu Dhabi, UAE / Beirut, Lebanon <ul style="list-style-type: none">• Education, consultancy and content development related to sustainable development and solar energy, based in Masdar City, UAE.• Manager of the company with activity and team of 8 collaborators in the UAE and 1 in Lebanon.• Several collaborations with the main players in the field of sustainability (Environmental Agency Abu Dhabi, Energy companies, NGOs, Schools...)
2014 present	R&D, Consultancy, Mentoring in Innovation, Solar energy and Sustainable Development <ul style="list-style-type: none">• Developed and delivered innovative professional training material<ul style="list-style-type: none">○ For Eedama○ For UNESCO Arab Youth Leaders in Education to Sustainable Development• Researcher for Qatar Foundation (Qatar Environment and Energy Research Institute)<ul style="list-style-type: none">○ Lead of the establishment of a silicon photovoltaic cell research lab. Work done on design and research strategy.• Member of the Global Advisory Panel of the Science of Innovation Park at the United Arab Emirates University (Al Ain)<ul style="list-style-type: none">○ 20 mentoring sessions for students in the process of green tech related start-up• Consultancy for Zayed University's Research Cluster 'Designing Food Revolution for Social Change' (Dubai) on issues related to urban design and urban food production.• Wrote broad audience articles on recent development in Solar energy research (in Arabic, French and English, see details below)• Co-authored more than 40 peer-reviewed scientific papers and more than 20 conference proceedings papers, wrote one patent and advised for two. (Google Scholar Link)
2016 Present	Lecturer/Adjunct Professor, American University of Beirut; Beirut, Lebanon and Sorbonne University Abu Dhabi; Abu Dhabi, UAE <ul style="list-style-type: none">• Semiconductor Physics, 60h, 6 credits, course for Bachelor of physics 6th semester student, entirely newly developed course with an application to solar photovoltaic energy.• Quanta and Relativity, an introduction to modern physics, 60h, 6 credits for 5th semester Bachelor of physics students• Understanding the Universe, 3 credits.• Recitations for the courses: General Physics and Electricity and Magnetism

Past Research, Development, And Teaching Activities

2008 2016	-	<p>Physics Adjunct Professor and Lecturer for various Swiss, French and Belgian Universities (University of Namur, Belgium; CentraleSupélec, Paris, France; Ecole Centrale de Lyon and INSA Lyon, France; Ecole Polytechnique Federale de Lausanne, EPFL Switzerland)</p> <p>Developed or co-developed several courses:</p> <ul style="list-style-type: none">• Semiconductor Devices and Photovoltaic Energy, Master in physics.• Photovoltaic Electricity Production: Markets, Technologies, and Public Policies, Executive Master on Energy Management in a Engineering School.• Awarded for the quality of teaching at EPFL Switzerland.
2010 2014	-	<p>Research Scientist Solar Photovoltaic Energy, IMEC; Leuven, Belgium</p> <ul style="list-style-type: none">• R&D work and topic leader (Nanotechnology for Solar Energy). Coordination of 4 people, including supervision of a PhD and several Master students.• Work in the frame of IMEC's industrial affiliation program with industrial partners and residents, including Total, Kaneka, Dow-Corning.• Coordination of a regional and European research projects involving several Flemish and European universities and companies (SiLaSol, PRIMA, PhotoNVoltaics).
2003- 2010	-	<p>Researcher in Photonics for Solar Energy, the Lyon Nanotechnology Institute (INL); Lyon, France. Doctoral Student and then Researcher, Ecole polytechnique fédérale de Lausanne (EPFL, Swiss Federal Institute of Technology); Lausanne, Switzerland.</p> <ul style="list-style-type: none">• Experimental research work in experimental quantum mechanics and semiconductor physics (One patent).• Coordination of several French laboratories for the SPARCS projects (photonics for Thin Solar Cells) as well as European institutions in the frame of the ePIXnet network of excellence (about photonics integrated on silicon).

Education

2003 2007	-	<p>PhD in Physics at the Ecole polytechnique fédérale de Lausanne - EPFL, Switzerland. Awarded in July 2007.</p>
1997 2003	-	<p>Maîtrise de physique in Paris at Ecole normale supérieure and Paris VI University. Classes préparatoires aux grandes écoles in Lyon, France.</p>

Languages

- **French and Arabic:** Native speaker.
- **English:** Fluent, oral and written.
- **Dutch:** Very good (Interuniversitair Taaltest Nederlands voor Anderstaligen – ITNA, level C1 of the European reference frame).
- **German:** Basic knowledge (6 month-stay in Berlin, 2002).

Volunteer work

- Cofounder of the non-profit organisations « *L'Heliopole* » in *Belgium* and *JIBAL in Lebanon* dedicated to promoting renewable energies through scientific broad audience understanding. Organisation of seminars. See www.heliopole.info and www.jibal.org
- Conceiver and manager of multilingual author Rachid El-Daif's website: www.rachideldaif.com
- Volunteer interpretation works to and from French, Arabic, and English for NGOs' meetings. Coordinator of the interpretation at the [Joint Social Conference](#) (Brussels, 2011).

*References from academic and industrial former colleagues and managers are available on demand.
Publications list and details of teaching activities available.*